Resolutions in 3 Dimensions

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21.31Resolved 849
21.32Resolved 850
21.33Resolved 852
21.34Resolved 855
21.35Resolved 856
21.36Resolved 856
21.37Resolved 860
21.38Resolved 863
21.39Resolved 866
21.40Resolved 869
21.41Resolved 869
21.42Resolved 874
21.43Resolved 875
21.44Resolved 877
21.45Resolved 878
21.46Resolved 880
21.47Resolved 880
21.48Resolved 880
21.49Resolved 881
21.50Resolved 884
21.51Resolved 884
21.52Resolved 885
21.53Resolved 886
21.54Resolved 886
21.55Resolved 887
21.56Resolved 888
21.57Resolved 888
21.58Resolved 889
21.59Resolved 889
21.60Resolved 891
21.61Resolved 892
21.62Resolved 893
21.63Resolved 894
21.64Resolved 894
21.65Resolved 895
21.66Resolved 895
21.67Resolved 896
21.68Resolved 896
21.69Resolved 897
21.70Resolved 897
21.71Resolved 898
21.72Resolved 899
21.73Resolved 900
21.74Resolved 900
21.75Resolved 900
21.76Resolved 901
21.77Resolved 903
21.78Resolved 903
21.79Resolved 903
21.80Resolved 905

21.81Resolved . . . 906
21.82Resolved . . . 907
21.83Resolved . . . 908
21.84Resolved . . . 908
21.85Resolved . . . 909
21.86Resolved . . . 909
21.87Resolved . . . 910
21.88Resolved . . . 911
21.89Resolved . . . 911
21.90Resolved . . . 913
21.91Resolved . . . 913
21.92Resolved . . . 914
21.93Resolved . . . 914
21.94Resolved . . . 914
21.95Resolved . . . 915
21.96Resolved . . . 915
21.97Resolved . . . 918
21.98Resolved . . . 919
21.99Resolved . . . 919
21.100Resolved . . . 919
21.101Resolved . . . 921
21.102Resolved . . . 921
21.103Resolved . . . 923
21.104Resolved . . . 923
21.105Resolved . . . 923
21.106Resolved . . . 923
21.107Resolved . . . 924

22 H-index = 22 **924**
22.0 Classification . . . 924
22.1 Resolved . . . 931
22.2 Resolved . . . 932
22.3 Resolved . . . 932
22.4 Resolved . . . 932
22.5 Resolved . . . 932
22.6 Resolved . . . 932
22.7 Resolved . . . 932
22.8 Resolved . . . 933
22.9 Resolved . . . 934
22.10Resolved . . . 937
22.11Resolved . . . 940
22.12Resolved . . . 946
22.13Resolved . . . 951
22.14Resolved . . . 958
22.15Resolved . . . 964
22.16Resolved . . . 971
22.17Resolved . . . 976
22.18Resolved . . . 989
22.19Resolved . . . 993
22.20Resolved . . . 999
22.21Resolved . . . 1002
22.22Resolved . . . 1008
22.23Resolved . . . 1010
22.24Resolved . . . 1012

22.25Resolved 1014
22.26Resolved 1016
22.27Resolved 1017
22.28Resolved 1017
22.29Resolved 1018
22.30Resolved 1022
22.31Resolved 1025
22.32Resolved 1025
22.33Resolved 1027
22.34Resolved 1029
22.35Resolved 1031
22.36Resolved 1035
22.37Resolved 1035
22.38Resolved 1036
22.39Resolved 1037
22.40Resolved 1040
22.41Resolved 1042
22.42Resolved 1043
22.43Resolved 1044
22.44Resolved 1044
22.45Resolved 1046
22.46Resolved 1047
22.47Resolved 1047
22.48Resolved 1047
22.49Resolved 1048
22.50Resolved 1049
22.51Resolved 1049
22.52Resolved 1049
22.53Resolved 1053
22.54Resolved 1055
22.55Resolved 1057
22.56Resolved 1058
22.57Resolved 1059
22.58Resolved 1061
22.59Resolved 1061
22.60Resolved 1062
22.61Resolved 1063
22.62Resolved 1063
22.63Resolved 1063
22.64Resolved 1064
22.65Resolved 1065
22.66Resolved 1066
22.67Resolved 1066
22.68Resolved 1066
22.69Resolved 1067
22.70Resolved 1067
22.71Resolved 1068
22.72Resolved 1068
22.73Resolved 1068
22.74Resolved 1069
22.75Resolved 1069
22.76Resolved 1070
22.77Resolved 1070
22.78Resolved 1070

22.79Resolved 1072
22.80Resolved 1072
22.81Resolved 1072
22.82Resolved 1072
22.83Resolved 1073
22.84Resolved 1074
22.85Resolved 1074
22.86Resolved 1075
22.87Resolved 1075
22.88Resolved 1075
22.89Resolved 1075
22.90Resolved 1077
22.91Resolved 1077
22.92Resolved 1077
22.93Resolved 1077
22.94Resolved 1078
22.95Resolved 1078
22.96Resolved 1078
22.97Resolved 1078
22.98Resolved 1078
22.99Resolved 1079

23 H-index = 23 **1079**
23.0 Classification 1079
23.1 Resolved 1087
23.2 Resolved 1087
23.3 Resolved 1087
23.4 Resolved 1087
23.5 Resolved 1088
23.6 Resolved 1088
23.7 Resolved 1088
23.8 Resolved 1088
23.9 Resolved 1088
23.10Resolved 1088
23.11Resolved 1088
23.12Resolved 1089
23.13Resolved 1089
23.14Resolved 1089
23.15Resolved 1092
23.16Resolved 1096
23.17Resolved 1100
23.18Resolved 1108
23.19Resolved 1117
23.20Resolved 1125
23.21Resolved 1136
23.22Resolved 1144
23.23Resolved 1152
23.24Resolved 1171
23.25Resolved 1171
23.26Resolved 1176
23.27Resolved 1177
23.28Resolved 1183
23.29Resolved 1185
23.30Resolved 1193

23.31Resolved 1194
23.32Resolved 1199
23.33Resolved 1202
23.34Resolved 1208
23.35Resolved 1212
23.36Resolved 1217
23.37Resolved 1222
23.38Resolved 1226
23.39Resolved 1229
23.40Resolved 1232
23.41Resolved 1235
23.42Resolved 1237
23.43Resolved 1237
23.44Resolved 1237
23.45Resolved 1247
23.46Resolved 1252
23.47Resolved 1254
23.48Resolved 1257
23.49Resolved 1264
23.50Resolved 1266
23.51Resolved 1268
23.52Resolved 1268
23.53Resolved 1270
23.54Resolved 1271
23.55Resolved 1273
23.56Resolved 1274
23.57Resolved 1276
23.58Resolved 1276
23.59Resolved 1277
23.60Resolved 1282
23.61Resolved 1285
23.62Resolved 1285
23.63Resolved 1287
23.64Resolved 1289
23.65Resolved 1290
23.66Resolved 1291
23.67Resolved 1291
23.68Resolved 1293
23.69Resolved 1293
23.70Resolved 1293
23.71Resolved 1294
23.72Resolved 1295
23.73Resolved 1296
23.74Resolved 1297
23.75Resolved 1298
23.76Resolved 1299
23.77Resolved 1301
23.78Resolved 1302
23.79Resolved 1302
23.80Resolved 1302
23.81Resolved 1303
23.82Resolved 1303
23.83Resolved 1304
23.84Resolved 1305

23.85Resolved . . . 1305
23.86Resolved . . . 1305
23.87Resolved . . . 1305
23.88Resolved . . . 1308
23.89Resolved . . . 1308
23.90Resolved . . . 1309
23.91Resolved . . . 1310
23.92Resolved . . . 1310
23.93Resolved . . . 1310
23.94Resolved . . . 1310
23.95Resolved . . . 1311
23.96Resolved . . . 1311
23.97Resolved . . . 1311
23.98Resolved . . . 1311
23.99Resolved . . . 1312
23.100Resolved . . . 1313
23.101Resolved . . . 1313
23.102Resolved . . . 1313
23.103Resolved . . . 1313
23.104Resolved . . . 1313

24 H-index = 24 **1313**
24.0 Classification . . . 1313
24.1 Resolved . . . 1324
24.2 Resolved . . . 1324
24.3 Resolved . . . 1324
24.4 Resolved . . . 1325
24.5 Resolved . . . 1325
24.6 Resolved . . . 1325
24.7 Resolved . . . 1325
24.8 Resolved . . . 1325
24.9 Resolved . . . 1325
24.10Resolved . . . 1325
24.11Resolved . . . 1327
24.12Resolved . . . 1329
24.13Resolved . . . 1330
24.14Resolved . . . 1337
24.15Resolved . . . 1339
24.16Resolved . . . 1344
24.17Resolved . . . 1345
24.18Resolved . . . 1353
24.19Resolved . . . 1361
24.20Resolved . . . 1374
24.21Resolved . . . 1386
24.22Resolved . . . 1390
24.23Resolved . . . 1395
24.24Resolved . . . 1400
24.25Resolved . . . 1405
24.26Resolved . . . 1413
24.27Resolved . . . 1415
24.28Resolved . . . 1419
24.29Resolved . . . 1422
24.30Resolved . . . 1425
24.31Resolved . . . 1425

24.32Resolved 1426
24.33Resolved 1428
24.34Resolved 1436
24.35Resolved 1446
24.36Resolved 1448
24.37Resolved 1449
24.38Resolved 1453
24.39Resolved 1456
24.40Resolved 1458
24.41Resolved 1459
24.42Resolved 1460
24.43Resolved 1461
24.44Resolved 1461
24.45Resolved 1462
24.46Resolved 1463
24.47Resolved 1468
24.48Resolved 1470
24.49Resolved 1470
24.50Resolved 1472
24.51Resolved 1473
24.52Resolved 1474
24.53Resolved 1476
24.54Resolved 1476
24.55Resolved 1477
24.56Resolved 1477
24.57Resolved 1477
24.58Resolved 1479
24.59Resolved 1483
24.60Resolved 1488
24.61Resolved 1489
24.62Resolved 1491
24.63Resolved 1493
24.64Resolved 1494
24.65Resolved 1495
24.66Resolved 1496
24.67Resolved 1496
24.68Resolved 1498
24.69Resolved 1499
24.70Resolved 1499
24.71Resolved 1501
24.72Resolved 1501
24.73Resolved 1501
24.74Resolved 1502
24.75Resolved 1505
24.76Resolved 1505
24.77Resolved 1506
24.78Resolved 1506
24.79Resolved 1507
24.80Resolved 1507
24.81Resolved 1508
24.82Resolved 1509
24.83Resolved 1509
24.84Resolved 1512
24.85Resolved 1512

24.86Resolved 1514
24.87Resolved 1515
24.88Resolved 1516
24.89Resolved 1516
24.90Resolved 1518
24.91Resolved 1518
24.92Resolved 1519
24.93Resolved 1521
24.94Resolved 1522
24.95Resolved 1522
24.96Resolved 1524
24.97Resolved 1525
24.98Resolved 1525
24.99Resolved 1525
24.100Resolved 1528
24.101Resolved 1530
24.102Resolved 1530
24.103Resolved 1531
24.104Resolved 1532
24.105Resolved 1532
24.106Resolved 1532
24.107Resolved 1533
24.108Resolved 1534
24.109Resolved 1535
24.110Resolved 1536
24.111Resolved 1536
24.112Resolved 1537
24.113Resolved 1537
24.114Resolved 1538
24.115Resolved 1538
24.116Resolved 1538
24.117Resolved 1539
24.118Resolved 1541
24.119Resolved 1542
24.120Resolved 1543
24.121Resolved 1543
24.122Resolved 1543
24.123Resolved 1544
24.124Resolved 1544
24.125Resolved 1544
24.126Resolved 1545
24.127Resolved 1545
24.128Resolved 1546
24.129Resolved 1546
24.130Resolved 1546
24.131Resolved 1546
24.132Resolved 1547
24.133Resolved 1547
24.134Resolved 1547
24.135Resolved 1547
24.136Resolved 1548
24.137Resolved 1548
24.138Resolved 1548
24.139Resolved 1548

24.140Resolved 1548
24.141Resolved 1549
24.142Resolved 1549
24.143Resolved 1550
24.144Resolved 1551
24.145Resolved 1551
24.146Resolved 1552
24.147Resolved 1554
24.148Resolved 1555
24.149Resolved 1556
24.150Resolved 1556
24.151Resolved 1557
24.152Resolved 1557
24.153Resolved 1557

1 H-index = 1

1.0 Classification

```
[3,3]((1,0,0),(0,1,0),(0,0,1))
  [3,3]((1,0,0),(0,1,0),(0,0,1))
```

1.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,0,1)); lvl=0; h,r-ind=1,1
```

2 H-index = 2

2.0 Classification

```
[3,3]((1,0,0),(0,1,0),(0,1,2))
  [3,3]((1,0,0),(0,1,0),(0,1,2))
  [3,3]((1,0,0),(0,1,0),(1,0,2))
  [3,3]((1,0,0),(1,2,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(1,1,2))
  [3,3]((1,0,0),(0,1,0),(1,1,2))
```

2.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,2)); lvl=0; h,r-ind=2,2
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,2),(0,1,1)); lvl=1; h,r-ind=1,1
```

2.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,2)); lvl=0; h,r-ind=2,4
  [3,3]((1,1,2),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(1,1,1)); lvl=1; h,r-ind=1,1
```

3 H-index = 3

3.0 Classification

```
[3,3]((1,0,0),(0,1,0),(0,1,3))
  [3,3]((1,0,0),(0,1,0),(0,1,3))
  [3,3]((1,0,0),(0,1,0),(1,0,3))
  [3,3]((1,0,0),(1,3,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,2,3))
  [3,3]((1,0,0),(0,1,0),(0,2,3))
  [3,3]((1,0,0),(0,1,0),(2,0,3))
  [3,3]((1,0,0),(2,3,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(1,1,3))
  [3,3]((1,0,0),(0,1,0),(1,1,3))
  [3,3]((1,0,0),(0,1,0),(1,2,3))
  [3,3]((1,0,0),(0,1,0),(2,1,3))
[3,3]((1,0,0),(0,1,0),(2,2,3))
  [3,3]((1,0,0),(0,1,0),(2,2,3))
```

3.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,3)); lvl=0; h,r-ind=3,3
  [3,3]((1,0,0),(0,2,3),(0,1,0)); lvl=1; h,r-ind=3,3
    [3,3]((1,0,0),(0,1,1),(0,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,3),(0,2,3)); lvl=1; h,r-ind=3,3
    [3,3]((1,0,0),(0,1,2),(0,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,3),(0,1,2)); lvl=2; h,r-ind=1,1
```

3.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=0; h,r-ind=3,3
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,2,3),(0,1,1)); lvl=1; h,r-ind=1,1
```

3.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,3)); lvl=0; h,r-ind=3,9
  [3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,0,0)); lvl=1; h,r-ind=3,9
    [3,3]((0,1,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,3),(0,1,0),(1,1,2)); lvl=1; h,r-ind=1,1
```

3.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,2,3)); lvl=0; h,r-ind=3,9
  [3,3]((0,1,0),(2,2,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

4 H-index = 4

4.0 Classification

```
[3,3]((1,0,0),(0,1,0),(0,1,4))
  [3,3]((1,0,0),(0,1,0),(0,1,4))
  [3,3]((1,0,0),(0,1,0),(1,0,4))
  [3,3]((1,0,0),(1,4,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,3,4))
  [3,3]((1,0,0),(0,1,0),(0,3,4))
  [3,3]((1,0,0),(0,1,0),(3,0,4))
  [3,3]((1,0,0),(3,4,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(1,1,4))
  [3,3]((1,0,0),(0,1,0),(1,1,4))
  [3,3]((1,0,0),(0,1,0),(1,3,4))
  [3,3]((1,0,0),(0,1,0),(3,1,4))
[3,3]((1,0,0),(0,1,0),(1,2,4))
  [3,3]((1,0,0),(0,1,0),(1,2,4))
  [3,3]((1,0,0),(0,1,0),(2,1,4))
  [3,3]((1,0,0),(1,2,0),(0,1,2))
[3,3]((1,0,0),(0,1,0),(2,3,4))
  [3,3]((1,0,0),(0,1,0),(2,3,4))
  [3,3]((1,0,0),(0,1,0),(3,2,4))
  [3,3]((1,0,0),(1,2,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(3,3,4))
  [3,3]((1,0,0),(0,1,0),(3,3,4))
[3,3]((1,0,0),(1,2,0),(1,0,2))
  [3,3]((1,0,0),(1,2,0),(1,0,2))
```

4.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,4)); lvl=0; h,r-ind=4,4
  [3,3]((1,0,0),(0,1,2),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,1,4),(0,1,2)); lvl=1; h,r-ind=2,2; optimized-h
```

4.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,3,4)); lvl=0; h,r-ind=4,4
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,3,4),(0,1,1)); lvl=1; h,r-ind=1,1
```

4.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,4)); lvl=0; h,r-ind=4,16
  [3,3]((1,1,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(1,0,0)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((1,1,4),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,4),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
```

4.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,4)); lvl=0; h,r-ind=4,8
  [3,3]((1,2,4),(1,2,2),(1,1,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,2),(1,1,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

4.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,4)); lvl=0; h,r-ind=4,8
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,4),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,4),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
```

4.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,3,4)); lvl=0; h,r-ind=4,16
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,4),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,4),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
```

4.7 Resolved

```
[3,3]((1,0,0),(1,2,0),(1,0,2)); lvl=0; h,r-ind=4,2
  [3,3]((1,2,0),(1,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,1),(1,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,2),(1,0,1),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,0,1),(1,1,0)); lvl=1; h,r-ind=1,1
```

5 H-index = 5

5.0 Classification

```
[3,3]((1,0,0),(0,1,0),(0,1,5))
  [3,3]((1,0,0),(0,1,0),(0,1,5))
  [3,3]((1,0,0),(0,1,0),(1,0,5))
  [3,3]((1,0,0),(1,5,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,2,5))
  [3,3]((1,0,0),(0,1,0),(0,2,5))
  [3,3]((1,0,0),(0,1,0),(0,3,5))
  [3,3]((1,0,0),(0,1,0),(2,0,5))
  [3,3]((1,0,0),(0,1,0),(3,0,5))
  [3,3]((1,0,0),(2,5,0),(0,0,1))
  [3,3]((1,0,0),(3,5,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,4,5))
  [3,3]((1,0,0),(0,1,0),(0,4,5))
  [3,3]((1,0,0),(0,1,0),(4,0,5))
  [3,3]((1,0,0),(4,5,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(1,1,5))
  [3,3]((1,0,0),(0,1,0),(1,1,5))
  [3,3]((1,0,0),(0,1,0),(1,4,5))
  [3,3]((1,0,0),(0,1,0),(4,1,5))
[3,3]((1,0,0),(0,1,0),(1,2,5))
  [3,3]((1,0,0),(0,1,0),(1,2,5))
  [3,3]((1,0,0),(0,1,0),(1,3,5))
  [3,3]((1,0,0),(0,1,0),(2,1,5))
  [3,3]((1,0,0),(0,1,0),(2,3,5))
  [3,3]((1,0,0),(0,1,0),(3,1,5))
  [3,3]((1,0,0),(0,1,0),(3,2,5))
[3,3]((1,0,0),(0,1,0),(2,2,5))
  [3,3]((1,0,0),(0,1,0),(2,2,5))
  [3,3]((1,0,0),(0,1,0),(3,4,5))
  [3,3]((1,0,0),(0,1,0),(4,3,5))
[3,3]((1,0,0),(0,1,0),(2,4,5))
  [3,3]((1,0,0),(0,1,0),(2,4,5))
  [3,3]((1,0,0),(0,1,0),(3,3,5))
  [3,3]((1,0,0),(0,1,0),(4,2,5))
[3,3]((1,0,0),(0,1,0),(4,4,5))
  [3,3]((1,0,0),(0,1,0),(4,4,5))
```

5.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,5)); lvl=0; h,r-ind=5,5
  [3,3]((1,0,0),(0,2,5),(0,1,0)); lvl=1; h,r-ind=5,5
    [3,3]((1,0,0),(0,1,2),(0,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,2,3),(0,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,5),(0,2,5)); lvl=1; h,r-ind=5,5
    [3,3]((1,0,0),(0,1,5),(0,2,7)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,0,0),(0,1,3),(0,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,3),(0,2,5)); lvl=2; h,r-ind=1,1
```

5.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,2,5)); lvl=0; h,r-ind=5,5
  [3,3]((1,0,0),(0,1,2),(0,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,2,3),(0,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
```

5.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,4,5)); lvl=0; h,r-ind=5,5
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,1),(0,4,5)); lvl=1; h,r-ind=1,1
```

5.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,5)); lvl=0; h,r-ind=5,25
  [3,3]((1,0,0),(2,2,5),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(2,2,5),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,5),(0,1,0),(1,1,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,5),(1,0,0),(1,1,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,5)); lvl=1; h,r-ind=5,25
    [3,3]((0,1,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,5),(1,0,0),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(2,2,3)); lvl=2; h,r-ind=3,9; optimized-h
    [3,3]((2,2,5),(0,1,0),(1,1,2)); lvl=2; h,r-ind=1,1
```

5.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,5)); lvl=0; h,r-ind=5,25
  [4,3]((1,0,0),(0,1,0),(2,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(1,2,2),(2,3,3),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,6),(2,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,5,6),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,4,5),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,6),(2,3,3)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,3),(2,3,4),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
  [5,3]((1,1,2),(1,2,3),(2,3,6),(2,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(1,2,3),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(2,2,3),(3,4,6),(5,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(4,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(1,1,2),(4,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(2,2,3),(3,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,5),(6,9,14),(5,8,12),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((7,11,17),(5,8,12),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(7,11,17),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(7,11,17),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,3),(7,11,17)); lvl=3; h,r-ind=1,1
    [4,3]((5,8,12),(3,5,7),(2,4,5),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(1,2,3),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(3,5,7),(2,4,5)); lvl=2; h,r-ind=1,1
    [6,3]((2,3,4),(6,9,14),(3,4,6),(5,7,11),(5,8,12),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,6),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(3,5,7),(4,6,9)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((6,9,14),(5,8,12),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,5),(6,9,14),(5,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,5),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(1,1,2),(7,10,16)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,5),(1,2,3),(2,3,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,5),(1,1,2),(2,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,5),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(0,1,0),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,5),(1,2,3),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
```

5.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,2,5)); lvl=0; h,r-ind=5,25
  [3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((2,2,5),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,5),(0,1,0),(1,1,2)); lvl=1; h,r-ind=1,1
```

5.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,4,5)); lvl=0; h,r-ind=5,25
  [3,3]((2,3,3),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,5),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,5),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,5),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
```

5.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,4,5)); lvl=0; h,r-ind=5,25
  [3,3]((4,4,5),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,4,5),(1,1,1)); lvl=1; h,r-ind=1,1
```

6 H-index = 6

6.0 Classification

```
[3,3]((1,0,0),(0,1,0),(0,1,6))
  [3,3]((1,0,0),(0,1,0),(0,1,6))
  [3,3]((1,0,0),(0,1,0),(1,0,6))
  [3,3]((1,0,0),(1,6,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,5,6))
  [3,3]((1,0,0),(0,1,0),(0,5,6))
  [3,3]((1,0,0),(0,1,0),(5,0,6))
  [3,3]((1,0,0),(5,6,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(1,1,6))
  [3,3]((1,0,0),(0,1,0),(1,1,6))
  [3,3]((1,0,0),(0,1,0),(1,5,6))
  [3,3]((1,0,0),(0,1,0),(5,1,6))
[3,3]((1,0,0),(0,1,0),(1,2,6))
  [3,3]((1,0,0),(0,1,0),(1,2,6))
  [3,3]((1,0,0),(0,1,0),(1,4,6))
  [3,3]((1,0,0),(0,1,0),(2,1,6))
  [3,3]((1,0,0),(0,1,0),(4,1,6))
  [3,3]((1,0,0),(1,2,0),(0,1,3))
  [3,3]((1,0,0),(1,2,0),(0,2,3))
```

```
[3,3]((1,0,0),(0,1,0),(1,3,6))
  [3,3]((1,0,0),(0,1,0),(1,3,6))
  [3,3]((1,0,0),(0,1,0),(3,1,6))
  [3,3]((1,0,0),(1,3,0),(0,1,2))
[3,3]((1,0,0),(0,1,0),(2,3,6))
  [3,3]((1,0,0),(0,1,0),(2,3,6))
  [3,3]((1,0,0),(0,1,0),(3,2,6))
  [3,3]((1,0,0),(1,2,0),(2,0,3))
  [3,3]((1,0,0),(1,2,0),(2,1,3))
  [3,3]((1,0,0),(2,3,0),(0,1,2))
  [3,3]((1,0,0),(2,3,0),(1,0,2))
[3,3]((1,0,0),(0,1,0),(2,5,6))
  [3,3]((1,0,0),(0,1,0),(2,5,6))
  [3,3]((1,0,0),(0,1,0),(5,2,6))
  [3,3]((1,0,0),(1,2,0),(1,1,3))
[3,3]((1,0,0),(0,1,0),(3,4,6))
  [3,3]((1,0,0),(0,1,0),(3,4,6))
  [3,3]((1,0,0),(0,1,0),(4,3,6))
  [3,3]((1,0,0),(1,2,0),(1,0,3))
  [3,3]((1,0,0),(1,2,0),(1,2,3))
  [3,3]((1,0,0),(1,3,0),(1,0,2))
  [3,3]((1,0,0),(1,3,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(3,5,6))
  [3,3]((1,0,0),(0,1,0),(3,5,6))
  [3,3]((1,0,0),(0,1,0),(5,3,6))
  [3,3]((1,0,0),(2,3,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(4,5,6))
  [3,3]((1,0,0),(0,1,0),(4,5,6))
  [3,3]((1,0,0),(0,1,0),(5,4,6))
  [3,3]((1,0,0),(1,2,0),(2,2,3))
[3,3]((1,0,0),(0,1,0),(5,5,6))
  [3,3]((1,0,0),(0,1,0),(5,5,6))
```

6.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,6)); lvl=0; h,r-ind=6,6
  [3,3]((1,0,0),(0,1,3),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,6),(0,1,3)); lvl=1; h,r-ind=3,3; optimized-h
```

6.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,5,6)); lvl=0; h,r-ind=6,6
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,5,6),(0,1,1)); lvl=1; h,r-ind=1,1
```

6.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,6)); lvl=0; h,r-ind=6,36
  [3,3]((1,1,3),(1,0,0),(1,1,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,1,6),(1,0,0),(1,1,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,3),(1,1,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,1,6),(0,1,0),(1,1,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
```

6.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,6)); lvl=0; h,r-ind=6,18
  [4,3]((1,1,3),(1,2,4),(1,2,3),(1,0,0)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,2),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,0,0),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((1,2,6),(1,1,3),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,6),(0,1,0),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
```

6.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,6)); lvl=0; h,r-ind=6,12
  [3,3]((1,3,6),(1,3,3),(2,3,6)); lvl=1; h,r-ind=9,3; alert-h-inc
    [4,3]((2,6,9),(2,5,8),(1,2,4),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,10,17),(1,2,4),(2,5,8)); lvl=3; h,r-ind=1,1
      [4,3]((2,6,9),(4,10,17),(1,3,5),(2,5,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,5),(4,10,17),(3,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(4,10,17),(3,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,9),(1,3,5),(3,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(2,6,9),(3,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,17),(1,3,5),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,3,5),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(1,3,3),(2,6,9),(2,5,8)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,8),(4,10,15),(2,6,9),(1,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,4),(3,8,12),(2,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(3,8,12),(2,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,15),(1,3,4),(3,8,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(4,10,15),(3,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(4,10,15),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,8),(4,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,8),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,3),(2,3,6)); lvl=1; h,r-ind=9,3; alert-h-inc
    [4,3]((1,1,2),(2,3,3),(2,3,4),(1,0,0)); lvl=2; h,r-ind=1,1
      [4,3]((4,5,7),(1,1,1),(2,3,3),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(2,3,3),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(4,5,7),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,5),(2,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,7),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,7),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,1,1),(1,0,0)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(1,2,3),(2,3,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,3),(1,2,2),(4,7,9),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,2),(4,7,9),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(4,7,9),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(2,3,4),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(1,2,2),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,9),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,2),(4,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,6),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

6.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,6)); lvl=0; h,r-ind=6,6
  [4,3]((1,2,3),(1,1,2),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(2,3,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,4),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,4),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,6),(1,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

6.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,5,6)); lvl=0; h,r-ind=6,18
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,6),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,6),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,5,6),(1,3,3),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

6.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,4,6)); lvl=0; h,r-ind=6,6
  [3,3]((2,2,3),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,2,3),(3,4,6),(3,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,4),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(5,6,8),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(5,6,8),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,7),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,7),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(4,5,7),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,6),(4,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(1,1,1),(5,6,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,5,6),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
```

6.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,5,6)); lvl=0; h,r-ind=6,12
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,6),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

6.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,5,6)); lvl=0; h,r-ind=6,18
  [3,3]((4,5,6),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,6),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
```

6.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,5,6)); lvl=0; h,r-ind=6,36
  [3,3]((5,5,6),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(5,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
```

7 H-index = 7

7.0 Classification

```
[3,3]((1,0,0),(0,1,0),(0,1,7))
  [3,3]((1,0,0),(0,1,0),(0,1,7))
  [3,3]((1,0,0),(0,1,0),(1,0,7))
  [3,3]((1,0,0),(1,7,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,2,7))
  [3,3]((1,0,0),(0,1,0),(0,2,7))
  [3,3]((1,0,0),(0,1,0),(0,4,7))
  [3,3]((1,0,0),(0,1,0),(2,0,7))
  [3,3]((1,0,0),(0,1,0),(4,0,7))
  [3,3]((1,0,0),(2,7,0),(0,0,1))
  [3,3]((1,0,0),(4,7,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,3,7))
  [3,3]((1,0,0),(0,1,0),(0,3,7))
  [3,3]((1,0,0),(0,1,0),(0,5,7))
  [3,3]((1,0,0),(0,1,0),(3,0,7))
  [3,3]((1,0,0),(0,1,0),(5,0,7))
  [3,3]((1,0,0),(3,7,0),(0,0,1))
  [3,3]((1,0,0),(5,7,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,6,7))
  [3,3]((1,0,0),(0,1,0),(0,6,7))
  [3,3]((1,0,0),(0,1,0),(6,0,7))
  [3,3]((1,0,0),(6,7,0),(0,0,1))
```

```
[3,3]((1,0,0),(0,1,0),(1,1,7))
  [3,3]((1,0,0),(0,1,0),(1,1,7))
  [3,3]((1,0,0),(0,1,0),(1,6,7))
  [3,3]((1,0,0),(0,1,0),(6,1,7))
[3,3]((1,0,0),(0,1,0),(1,2,7))
  [3,3]((1,0,0),(0,1,0),(1,2,7))
  [3,3]((1,0,0),(0,1,0),(1,5,7))
  [3,3]((1,0,0),(0,1,0),(2,1,7))
  [3,3]((1,0,0),(0,1,0),(3,4,7))
  [3,3]((1,0,0),(0,1,0),(4,3,7))
  [3,3]((1,0,0),(0,1,0),(5,1,7))
[3,3]((1,0,0),(0,1,0),(1,3,7))
  [3,3]((1,0,0),(0,1,0),(1,3,7))
  [3,3]((1,0,0),(0,1,0),(1,4,7))
  [3,3]((1,0,0),(0,1,0),(2,5,7))
  [3,3]((1,0,0),(0,1,0),(3,1,7))
  [3,3]((1,0,0),(0,1,0),(4,1,7))
  [3,3]((1,0,0),(0,1,0),(5,2,7))
[3,3]((1,0,0),(0,1,0),(2,2,7))
  [3,3]((1,0,0),(0,1,0),(2,2,7))
  [3,3]((1,0,0),(0,1,0),(4,6,7))
  [3,3]((1,0,0),(0,1,0),(6,4,7))
[3,3]((1,0,0),(0,1,0),(2,3,7))
  [3,3]((1,0,0),(0,1,0),(2,3,7))
  [3,3]((1,0,0),(0,1,0),(2,4,7))
  [3,3]((1,0,0),(0,1,0),(3,2,7))
  [3,3]((1,0,0),(0,1,0),(4,2,7))
  [3,3]((1,0,0),(0,1,0),(4,5,7))
  [3,3]((1,0,0),(0,1,0),(5,4,7))
[3,3]((1,0,0),(0,1,0),(2,6,7))
  [3,3]((1,0,0),(0,1,0),(2,6,7))
  [3,3]((1,0,0),(0,1,0),(4,4,7))
  [3,3]((1,0,0),(0,1,0),(6,2,7))
[3,3]((1,0,0),(0,1,0),(3,3,7))
  [3,3]((1,0,0),(0,1,0),(3,3,7))
  [3,3]((1,0,0),(0,1,0),(5,6,7))
  [3,3]((1,0,0),(0,1,0),(6,5,7))
[3,3]((1,0,0),(0,1,0),(3,5,7))
  [3,3]((1,0,0),(0,1,0),(3,5,7))
  [3,3]((1,0,0),(0,1,0),(5,3,7))
[3,3]((1,0,0),(0,1,0),(3,6,7))
  [3,3]((1,0,0),(0,1,0),(3,6,7))
  [3,3]((1,0,0),(0,1,0),(5,5,7))
  [3,3]((1,0,0),(0,1,0),(6,3,7))
[3,3]((1,0,0),(0,1,0),(6,6,7))
  [3,3]((1,0,0),(0,1,0),(6,6,7))
```

7.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,7)); lvl=0; h,r-ind=7,7
  [3,3]((1,0,0),(0,2,7),(0,1,0)); lvl=1; h,r-ind=7,7
    [3,3]((1,0,0),(0,1,3),(0,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,2),(0,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(0,1,2)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,1,7),(0,2,7)); lvl=1; h,r-ind=7,7
    [3,3]((1,0,0),(0,1,7),(0,1,5)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,0,0),(0,1,4),(0,1,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,4),(0,2,7)); lvl=2; h,r-ind=1,1
```

7.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,2,7)); lvl=0; h,r-ind=7,7
  [3,3]((1,0,0),(0,1,3),(0,2,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,2),(0,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,1,2)); lvl=1; h,r-ind=2,2; optimized-h
```

7.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,3,7)); lvl=0; h,r-ind=7,7
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
```

```
  [3,3]((1,0,0),(0,1,2),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,3,7),(0,1,2)); lvl=1; h,r-ind=1,1
```

7.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,6,7)); lvl=0; h,r-ind=7,7
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,1),(0,6,7)); lvl=1; h,r-ind=1,1
```

7.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,7)); lvl=0; h,r-ind=7,49
  [3,3]((1,0,0),(1,1,6),(2,2,7)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((0,1,0),(1,1,6),(2,2,7)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,1,7),(0,1,0),(1,1,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,7)); lvl=1; h,r-ind=7,49
    [3,3]((1,1,2),(0,1,0),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,7),(0,1,0),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,7),(1,0,0),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(0,1,0)); lvl=2; h,r-ind=2,4; optimized-h
  [3,3]((1,1,7),(1,0,0),(1,1,6)); lvl=1; h,r-ind=1,1
```

7.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,7)); lvl=0; h,r-ind=7,49
  [5,3]((2,4,7),(1,2,5),(2,3,9),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,9),(2,3,8),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(2,3,7),(2,3,8),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,8),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,8),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,7),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(3,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(2,3,8),(1,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,12),(2,3,7),(2,3,8),(1,1,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,7),(2,3,8),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,8),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(2,3,7),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,12),(3,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(4,5,12),(1,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(1,1,2),(4,5,12),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,12),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(4,5,12),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,7),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,1,2),(3,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,4,7),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,4,7),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(2,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,3),(2,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,4),(2,2,3),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,2),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,4),(2,2,3),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,3),(5,6,8),(2,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(1,2,2),(5,6,8),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(1,2,2),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,8),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(5,6,8),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(1,2,2)); lvl=4; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,1),(2,2,3),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,4),(1,1,1),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(1,1,1)); lvl=4; h,r-ind=1,1
```

```
    [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(2,4,7),(1,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,2,7),(0,1,0),(1,2,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,7),(1,2,5),(2,3,9)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,7),(2,3,9),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,7),(1,1,3)); lvl=1; h,r-ind=1,1
```

7.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,7)); lvl=0; h,r-ind=7,49
  [5,3]((2,6,7),(2,2,3),(1,2,4),(1,3,4),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,2,3),(2,4,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,6,7),(1,2,3),(2,4,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,6,7),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,3),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,6,7),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,7),(0,1,0),(1,3,4)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,0,0),(0,1,0),(2,6,7),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,3),(0,1,0),(2,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(1,3,3),(1,2,2),(2,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(4,10,11)); lvl=3; h,r-ind=1,1
      [4,3]((2,6,7),(2,5,6),(1,3,3),(4,10,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,9),(2,5,6),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(3,8,9),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(3,8,9),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=4; h,r-ind=1,1
      [4,3]((2,4,5),(2,5,6),(1,2,2),(4,10,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,8),(2,5,6),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,8),(1,2,2),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,8),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
    [4,3]((2,2,3),(2,4,5),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,1
      [4,3]((2,4,5),(2,3,4),(1,2,2),(4,6,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,6),(2,3,4),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,5,6),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,2),(4,6,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(2,2,3),(2,3,4),(4,6,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,7),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(4,6,7),(3,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(1,2,2),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,7),(1,2,4),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,7),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,7),(1,2,4),(1,3,4)); lvl=1; h,r-ind=3,3; optimized-h
```

7.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,2,7)); lvl=0; h,r-ind=7,49
  [3,3]((1,1,3),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,2)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((0,1,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,7),(0,1,0),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,7),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
```

7.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,7)); lvl=0; h,r-ind=7,49
  [4,3]((2,3,5),(1,1,2),(1,2,2),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(1,1,2),(2,3,4)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,2,2),(2,3,5),(2,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(1,2,2),(2,2,3)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,1),(0,1,0),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,5),(2,3,6),(1,2,2)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(2,3,6),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,8),(2,3,6),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,8),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,8),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,2),(1,2,3),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,5),(2,3,6),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,7),(2,3,6),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,7),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,7),(2,3,6)); lvl=1; h,r-ind=2,2; optimized-h
```

7.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,6,7)); lvl=0; h,r-ind=7,49
  [3,3]((2,6,7),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,6,7),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,6,7),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,6,7),(1,1,1)); lvl=1; h,r-ind=1,1
```

7.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,3,7)); lvl=0; h,r-ind=7,49
  [3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((3,3,7),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,7),(0,1,0),(1,1,2)); lvl=1; h,r-ind=1,1
```

7.12 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,5,7)); lvl=0; h,r-ind=7,49
  [3,3]((1,0,0),(1,1,1),(3,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,3),(4,6,7),(1,1,1),(3,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,5),(4,6,7),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(4,6,7),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,4,5),(5,7,8)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,4),(3,5,6),(4,6,7),(3,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((6,9,11),(4,6,7),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(6,9,11),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(6,9,11),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,5),(6,9,11)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,7),(2,3,4),(3,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,6),(1,2,2),(2,3,3),(4,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,7),(2,3,3),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(1,2,2),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,7),(3,5,6),(5,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,7),(3,5,6),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,7),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,4),(1,0,0),(3,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,7),(2,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

7.13 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,6,7)); lvl=0; h,r-ind=7,49
  [3,3]((2,3,3),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,7),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,7),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,7),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,6,7),(1,1,1)); lvl=1; h,r-ind=1,1
```

7.14 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,6,7)); lvl=0; h,r-ind=7,49
  [3,3]((6,6,7),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(6,6,7),(1,1,1)); lvl=1; h,r-ind=1,1
```

8 H-index = 8

8.0 Classification

```
[3,3]((1,0,0),(0,1,0),(0,1,8))
  [3,3]((1,0,0),(0,1,0),(0,1,8))
  [3,3]((1,0,0),(0,1,0),(1,0,8))
  [3,3]((1,0,0),(1,8,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,3,8))
  [3,3]((1,0,0),(0,1,0),(0,3,8))
  [3,3]((1,0,0),(0,1,0),(3,0,8))
  [3,3]((1,0,0),(3,8,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,5,8))
  [3,3]((1,0,0),(0,1,0),(0,5,8))
  [3,3]((1,0,0),(0,1,0),(5,0,8))
  [3,3]((1,0,0),(5,8,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,7,8))
  [3,3]((1,0,0),(0,1,0),(0,7,8))
  [3,3]((1,0,0),(0,1,0),(7,0,8))
  [3,3]((1,0,0),(7,8,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(1,1,8))
  [3,3]((1,0,0),(0,1,0),(1,1,8))
  [3,3]((1,0,0),(0,1,0),(1,7,8))
  [3,3]((1,0,0),(0,1,0),(7,1,8))
[3,3]((1,0,0),(0,1,0),(1,2,8))
  [3,3]((1,0,0),(0,1,0),(1,2,8))
  [3,3]((1,0,0),(0,1,0),(1,6,8))
  [3,3]((1,0,0),(0,1,0),(2,1,8))
  [3,3]((1,0,0),(0,1,0),(6,1,8))
  [3,3]((1,0,0),(1,2,0),(0,1,4))
  [3,3]((1,0,0),(1,2,0),(0,3,4))
[3,3]((1,0,0),(0,1,0),(1,3,8))
  [3,3]((1,0,0),(0,1,0),(1,3,8))
  [3,3]((1,0,0),(0,1,0),(1,5,8))
  [3,3]((1,0,0),(0,1,0),(3,1,8))
  [3,3]((1,0,0),(0,1,0),(3,5,8))
  [3,3]((1,0,0),(0,1,0),(5,1,8))
  [3,3]((1,0,0),(0,1,0),(5,3,8))
[3,3]((1,0,0),(0,1,0),(1,4,8))
  [3,3]((1,0,0),(0,1,0),(1,4,8))
  [3,3]((1,0,0),(0,1,0),(4,1,8))
  [3,3]((1,0,0),(1,4,0),(0,1,2))
[3,3]((1,0,0),(0,1,0),(2,3,8))
  [3,3]((1,0,0),(0,1,0),(2,3,8))
  [3,3]((1,0,0),(0,1,0),(3,2,8))
  [3,3]((1,0,0),(1,2,0),(3,1,4))
[3,3]((1,0,0),(0,1,0),(2,5,8))
  [3,3]((1,0,0),(0,1,0),(2,5,8))
  [3,3]((1,0,0),(0,1,0),(5,2,8))
  [3,3]((1,0,0),(0,1,0),(5,6,8))
  [3,3]((1,0,0),(0,1,0),(6,5,8))
  [3,3]((1,0,0),(1,2,0),(2,1,4))
  [3,3]((1,0,0),(1,2,0),(2,3,4))
```

```
[3,3]((1,0,0),(0,1,0),(2,7,8))
  [3,3]((1,0,0),(0,1,0),(2,7,8))
  [3,3]((1,0,0),(0,1,0),(7,2,8))
  [3,3]((1,0,0),(1,2,0),(1,1,4))
[3,3]((1,0,0),(0,1,0),(3,3,8))
  [3,3]((1,0,0),(0,1,0),(3,3,8))
  [3,3]((1,0,0),(0,1,0),(3,7,8))
  [3,3]((1,0,0),(0,1,0),(7,3,8))
[3,3]((1,0,0),(0,1,0),(3,4,8))
  [3,3]((1,0,0),(0,1,0),(3,4,8))
  [3,3]((1,0,0),(0,1,0),(4,3,8))
  [3,3]((1,0,0),(3,4,0),(0,1,2))
[3,3]((1,0,0),(0,1,0),(3,6,8))
  [3,3]((1,0,0),(0,1,0),(3,6,8))
  [3,3]((1,0,0),(0,1,0),(6,3,8))
  [3,3]((1,0,0),(1,2,0),(1,3,4))
[3,3]((1,0,0),(0,1,0),(4,5,8))
  [3,3]((1,0,0),(0,1,0),(4,5,8))
  [3,3]((1,0,0),(0,1,0),(5,4,8))
  [3,3]((1,0,0),(1,4,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(4,7,8))
  [3,3]((1,0,0),(0,1,0),(4,7,8))
  [3,3]((1,0,0),(0,1,0),(7,4,8))
  [3,3]((1,0,0),(3,4,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(5,5,8))
  [3,3]((1,0,0),(0,1,0),(5,5,8))
  [3,3]((1,0,0),(0,1,0),(5,7,8))
  [3,3]((1,0,0),(0,1,0),(7,5,8))
[3,3]((1,0,0),(0,1,0),(6,7,8))
  [3,3]((1,0,0),(0,1,0),(6,7,8))
  [3,3]((1,0,0),(0,1,0),(7,6,8))
  [3,3]((1,0,0),(1,2,0),(3,3,4))
[3,3]((1,0,0),(0,1,0),(7,7,8))
  [3,3]((1,0,0),(0,1,0),(7,7,8))
[3,3]((1,0,0),(1,2,0),(1,0,4))
  [3,3]((1,0,0),(1,2,0),(1,0,4))
  [3,3]((1,0,0),(1,2,0),(1,2,4))
  [3,3]((1,0,0),(1,4,0),(1,0,2))
[3,3]((1,0,0),(1,2,0),(3,0,4))
  [3,3]((1,0,0),(1,2,0),(3,0,4))
  [3,3]((1,0,0),(1,2,0),(3,2,4))
  [3,3]((1,0,0),(3,4,0),(1,0,2))
```

8.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,8)); lvl=0; h,r-ind=8,8
  [3,3]((1,0,0),(0,1,4),(0,1,0)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,0,0),(0,1,8),(0,1,4)); lvl=1; h,r-ind=4,4; optimized-h
```

8.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,3,8)); lvl=0; h,r-ind=8,8
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,3,7),(0,2,3)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,3,8),(0,3,7)); lvl=1; h,r-ind=3,3; optimized-h
```

8.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,5,8)); lvl=0; h,r-ind=8,8
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,3,4),(0,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,2,3),(0,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,5,8),(0,2,3)); lvl=1; h,r-ind=1,1
```

8.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,7,8)); lvl=0; h,r-ind=8,8
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,7,8),(0,1,1)); lvl=1; h,r-ind=1,1
```

8.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,8)); lvl=0; h,r-ind=8,64
  [3,3]((1,0,0),(1,1,4),(1,1,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,1,4),(1,1,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,8),(1,0,0),(1,1,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,8),(1,1,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,4)); lvl=1; h,r-ind=4,16; optimized-h
```

8.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,8)); lvl=0; h,r-ind=8,32
  [3,3]((0,1,0),(1,0,0),(1,2,4)); lvl=1; h,r-ind=4,8; optimized-h
  [4,3]((1,1,4),(1,2,6),(1,0,0),(1,2,4)); lvl=1; h,r-ind=2,2
    [4,3]((1,1,3),(1,1,2),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,2),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,1,3),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(1,1,3),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(1,2,6),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,4),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,8),(1,1,4),(1,2,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,6),(0,1,0),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,8),(1,2,6),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
```

8.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,8)); lvl=0; h,r-ind=8,64
  [5,3]((2,5,10),(2,5,12),(1,2,4),(2,3,7),(1,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,4),(2,4,9),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(2,4,9),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,12),(3,7,16),(1,2,5),(5,11,25)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,21),(3,7,16),(5,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(4,9,21),(5,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(4,9,21),(3,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,12),(4,9,21)); lvl=3; h,r-ind=1,1
    [4,3]((5,11,24),(6,13,29),(1,2,4),(2,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((7,15,33),(2,4,9),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,24),(7,15,33),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,29),(7,15,33),(2,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,24),(6,13,29),(7,15,33)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(6,13,29),(5,11,25),(2,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,25),(6,13,29),(7,15,34)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(6,13,29),(7,15,34)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(5,11,25),(7,15,34)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(1,2,5),(7,15,34)); lvl=3; h,r-ind=1,1
    [6,3]((5,11,24),(3,7,15),(2,5,11),(3,7,16),(6,13,29),(5,11,25)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,11),(3,7,15),(4,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,24),(3,7,15),(4,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,24),(6,13,29),(4,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,16),(2,5,11),(4,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,25),(3,7,16),(4,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,29),(5,11,25),(4,9,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,12),(2,5,11),(3,7,16)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,10),(5,11,24),(3,7,15),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,15),(4,9,19),(5,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(4,9,19),(5,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(3,7,15),(4,9,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,10),(4,9,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,10),(3,7,15),(2,5,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,7),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,8),(2,5,12),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,8),(1,2,5)); lvl=1; h,r-ind=1,1
  [5,3]((1,2,3),(1,3,5),(1,3,4),(2,5,10),(1,2,4)); lvl=1; h,r-ind=1,1
```

```
    [5,3]((1,2,3),(1,3,4),(3,7,12),(4,10,17),(3,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((4,10,17),(3,8,13),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,13),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(4,10,17),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,12),(2,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,5),(2,5,9),(4,10,17),(3,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,9),(4,10,17),(5,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,13),(4,10,17),(5,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,9),(5,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,13),(1,3,5),(5,13,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,10),(2,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,4),(3,8,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(3,7,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(2,5,9),(3,7,12),(4,10,17)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,9),(4,10,17),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(4,10,17),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,12),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(5,12,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,10),(2,5,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,8),(0,1,0),(1,3,5)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,3,8),(1,3,5),(2,5,10),(2,5,12)); lvl=1; h,r-ind=1,1
    [4,3]((2,6,13),(2,5,11),(1,3,5),(2,5,10)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,11),(5,13,27),(2,5,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,6),(1,3,5),(5,13,27),(2,5,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,5),(3,8,16),(2,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,27),(3,8,16),(2,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,3,5),(3,8,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,27),(1,3,6),(3,8,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,11),(5,13,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,6,13),(2,5,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,8),(2,6,13),(2,5,11),(2,5,12)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,11),(5,13,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(2,5,11),(5,13,30)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,12),(1,3,8),(1,3,7),(5,13,30)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,19),(1,3,8),(1,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,30),(3,8,19),(1,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(5,13,30),(3,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(3,8,19),(1,3,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(2,6,13),(2,5,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(1,2,3),(1,2,4),(2,3,7)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,2),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,7),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(1,2,3),(1,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(3,7,9),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,2),(3,7,9),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,9),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,2),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,1),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,4),(3,7,9),(1,2,2)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,5,6),(1,3,4),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(2,5,6),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,8,9),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,8,9),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,4),(3,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
```

8.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,4,8)); lvl=0; h,r-ind=8,16
  [3,3]((1,4,8),(1,4,4),(1,2,4)); lvl=1; h,r-ind=8,4
    [4,3]((1,3,5),(1,4,6),(1,4,8),(1,3,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,6),(3,10,18),(1,4,7),(1,4,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,13),(3,10,18),(1,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(2,7,13),(1,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,4,8),(2,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(2,7,13),(3,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,6),(3,10,18)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((1,3,5),(3,10,18),(1,4,6),(1,4,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,6),(2,7,12),(1,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,18),(2,7,12),(1,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(3,10,18),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(1,4,6),(2,7,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,5),(1,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,4),(1,3,4),(1,3,5),(1,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(3,10,14),(1,3,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,5),(1,4,6),(3,10,14),(1,3,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,6),(2,7,10),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,14),(2,7,10),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(3,10,14),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(1,4,6),(2,7,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,4),(1,4,5),(1,3,4),(3,10,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,9),(1,4,5),(3,10,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,9),(3,10,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(2,7,9),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,4),(2,7,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,4),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,4,4),(1,2,4)); lvl=1; h,r-ind=8,4
    [4,3]((1,1,2),(1,2,3),(1,2,2),(1,0,0)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,6),(1,1,1),(1,2,3),(1,2,2)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(1,2,3),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,6),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,6),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,2),(3,4,6),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,2,3),(1,1,1),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(1,0,0),(2,2,3)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,4),(1,3,4),(1,2,3),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,10),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(1,2,2),(3,8,10),(1,2,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,6),(1,2,2),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,10),(2,5,6),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(3,8,10),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,5,6),(1,2,2)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,4),(1,3,3),(1,3,4),(3,8,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,3),(3,8,10),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(1,3,3),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,4),(2,6,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,8),(1,4,4)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,4,4)); lvl=1; h,r-ind=4,4; optimized-h
```

8.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,8)); lvl=0; h,r-ind=8,32
  [5,3]((3,4,8),(3,4,9),(3,3,7),(4,5,12),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((6,7,16),(4,5,12),(3,3,7)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,2),(6,7,16),(3,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,11),(9,11,25),(1,1,2),(6,7,16)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,16),(9,11,25),(10,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,11),(9,11,25),(10,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,11),(10,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(6,7,16),(10,12,27)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,8),(4,5,11),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,9),(3,4,8),(4,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((9,11,25),(8,10,23),(6,7,16),(4,5,12)); lvl=2; h,r-ind=1,1
      [4,3]((8,10,23),(22,27,62),(5,6,14),(4,5,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,6,14),(22,27,62),(13,16,37)); lvl=4; h,r-ind=1,1
        [3,3]((8,10,23),(22,27,62),(13,16,37)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,12),(5,6,14),(13,16,37)); lvl=4; h,r-ind=1,1
        [3,3]((8,10,23),(4,5,12),(13,16,37)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,25),(8,10,23),(22,27,62)); lvl=3; h,r-ind=1,1
      [4,3]((6,7,16),(9,11,25),(22,27,62),(5,6,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((14,17,39),(9,11,25),(22,27,62)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,14),(14,17,39),(22,27,62)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,16),(14,17,39),(9,11,25)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,14),(6,7,16),(14,17,39)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,9),(8,10,23),(4,5,12)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,9),(4,5,11),(9,11,25),(8,10,23)); lvl=2; h,r-ind=1,1
      [3,3]((12,15,34),(9,11,25),(4,5,11)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((3,4,9),(12,15,34),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,23),(12,15,34),(9,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(8,10,23),(12,15,34)); lvl=3; h,r-ind=1,1
  [5,3]((2,3,4),(2,3,5),(2,2,3),(3,4,8),(1,1,2)); lvl=1; h,r-ind=1,1
    [4,3]((4,5,8),(1,1,2),(3,4,7),(6,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((7,9,15),(3,4,7),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(7,9,15),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,13),(7,9,15),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,5),(5,7,11),(3,4,7),(6,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((8,11,18),(6,8,13),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(8,11,18),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(8,11,18),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,7,11),(8,11,18)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,4),(4,5,8),(5,7,11),(6,8,13)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,6),(4,5,8),(6,8,13),(14,19,30)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,12,19),(4,5,8),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((14,19,30),(9,12,19),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(14,19,30),(9,12,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(9,12,19),(4,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(6,8,13),(14,19,30)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,11),(2,3,4),(3,4,6),(14,19,30)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,6),(2,3,4),(8,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(2,3,4),(8,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((14,19,30),(3,4,6),(8,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(14,19,30),(8,11,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,4),(2,3,5),(5,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,8),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(4,5,8),(2,2,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,2),(3,4,8),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(3,4,8),(3,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,3,4),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,3),(2,3,4),(2,3,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,2),(2,3,4),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,4),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(1,2,2),(3,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(1,2,2),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=3; h,r-ind=1,1
  [6,3]((1,2,3),(2,3,5),(2,3,7),(1,2,4),(3,4,8),(3,4,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,6),(3,4,8),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(2,3,6),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,7),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,6),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,8),(2,3,7),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,8),(2,3,7),(3,4,9),(4,5,12)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,9),(2,3,7),(8,11,26)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,10),(2,3,8),(2,3,7),(8,11,26)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,7,17),(2,3,7),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(5,7,17),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,26),(5,7,17),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(8,11,26),(5,7,17)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,12),(3,4,10),(3,4,9),(8,11,26)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,10),(8,11,26),(6,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(8,11,26),(6,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(3,4,9),(6,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(3,4,10),(6,8,19)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,7),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,8),(3,3,7),(4,5,12)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,10),(4,5,12),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,3,7),(4,5,12),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,3,7),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(3,4,10),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,8),(2,2,5)); lvl=2; h,r-ind=1,1
```

8.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,5,8)); lvl=0; h,r-ind=8,32
  [3,3]((1,2,2),(2,3,4),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,3),(2,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,8),(1,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,3),(1,3,4),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,3),(1,2,3),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,8),(1,2,3),(1,3,4)); lvl=1; h,r-ind=1,1
```

8.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,7,8)); lvl=0; h,r-ind=8,32
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,8),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,8),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,4,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,7,8),(1,2,2),(1,4,4)); lvl=1; h,r-ind=2,2; optimized-h
```

8.12 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,3,8)); lvl=0; h,r-ind=8,64
  [3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((3,3,7),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,5),(3,3,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,8),(2,2,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,5),(3,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,8),(0,1,0),(2,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,7),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
```

8.13 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,4,8)); lvl=0; h,r-ind=8,16
  [4,3]((1,1,2),(1,2,2),(2,3,3),(3,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,4),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,4),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,7),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,5,7),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(3,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,8),(1,1,2),(3,5,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(3,4,8),(3,5,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,2),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

8.14 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,6,8)); lvl=0; h,r-ind=8,32
  [3,3]((2,3,3),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,3),(3,5,6),(4,7,8),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,6),(4,7,8),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(4,7,8),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,5,6),(5,8,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,4),(3,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,5),(2,3,4),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(1,1,1),(3,5,6)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,0,0),(3,4,5),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((3,6,7),(2,4,5),(3,5,6),(4,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((6,11,13),(3,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(6,11,13),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(3,6,7),(6,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(6,11,13),(3,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,4),(3,6,8),(2,4,5),(3,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((3,6,8),(4,7,9),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,7,9),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,5,6),(4,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,6,8),(4,7,9)); lvl=2; h,r-ind=1,1
  [4,3]((3,6,7),(2,3,3),(4,7,8),(0,1,0)); lvl=1; h,r-ind=1,4
    [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(2,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(4,7,8),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(0,1,0),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((3,6,7),(2,4,5),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,8),(2,4,5),(0,1,0)); lvl=1; h,r-ind=1,1
```

8.15 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,5,8)); lvl=0; h,r-ind=8,16
  [4,3]((0,1,0),(2,3,4),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,6),(1,1,1),(3,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(4,5,6),(3,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,2),(2,3,4),(4,5,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((0,1,0),(1,2,2),(4,5,6),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,3),(1,2,2),(4,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(1,1,1),(4,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((4,5,8),(2,2,3),(2,3,4),(3,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((6,7,10),(2,2,3),(3,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,10),(2,3,4),(3,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,4,6),(6,7,10),(2,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((3,4,6),(4,5,8),(6,7,10),(2,2,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,8),(5,6,9),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,10),(5,6,9),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(6,7,10),(5,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(4,5,8),(5,6,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,5,8),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

8.16 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,7,8)); lvl=0; h,r-ind=8,16
  [3,3]((1,2,2),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((4,7,8),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,7,8),(1,1,1)); lvl=1; h,r-ind=1,1
```

8.17 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,5,8)); lvl=0; h,r-ind=8,64
  [3,3]((3,3,4),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,8),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,4),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,4),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,8),(0,1,0),(2,2,3)); lvl=1; h,r-ind=1,1
```

8.18 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,7,8)); lvl=0; h,r-ind=8,32
  [3,3]((6,7,8),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((6,7,8),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
```

8.19 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,7,8)); lvl=0; h,r-ind=8,64
  [3,3]((7,7,8),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(7,7,8),(1,1,1)); lvl=1; h,r-ind=1,1
```

8.20 Resolved

```
[3,3]((1,0,0),(1,2,0),(1,0,4)); lvl=0; h,r-ind=8,4
  [4,3]((1,0,0),(1,0,2),(1,1,1),(1,1,0)); lvl=1; h,r-ind=1,1
    [4,3]((1,0,1),(3,2,2),(1,0,2),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,2,2),(2,1,2),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,2),(2,1,2),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,1),(1,0,2),(2,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,1),(3,2,2),(2,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,0),(3,2,2),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(1,0,1),(1,1,0),(3,2,2)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,1,1),(1,0,1),(3,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,1),(1,1,0),(3,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,1,1),(1,1,0)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,1,1),(1,0,1)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,0),(1,1,1),(1,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,2),(1,0,4),(1,0,2),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((3,2,6),(1,1,1),(1,0,3),(1,0,2)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,1,4),(1,0,3),(1,0,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,1,4),(1,0,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,6),(2,1,4),(1,0,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,2,6),(2,1,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(3,2,6),(1,0,4),(1,0,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,0,4),(2,1,5),(1,0,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,6),(2,1,5),(1,0,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,0,4),(2,1,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,6),(1,1,2),(2,1,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,2,6),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,0),(1,1,2),(1,1,1)); lvl=1; h,r-ind=1,1
```

8.21 Resolved

```
[3,3]((1,0,0),(1,2,0),(3,0,4)); lvl=0; h,r-ind=8,4
  [3,3]((1,0,1),(1,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,1),(2,2,1),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,1),(1,2,0),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,1,2),(2,2,1),(1,2,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,1),(2,1,2),(2,2,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,1),(2,1,2),(3,0,4)); lvl=1; h,r-ind=1,1
```

9 H-index = 9

9.0 Classification

```
[3,3]((1,0,0),(0,1,0),(0,1,9))
  [3,3]((1,0,0),(0,1,0),(0,1,9))
  [3,3]((1,0,0),(0,1,0),(1,0,9))
  [3,3]((1,0,0),(1,9,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,2,9))
  [3,3]((1,0,0),(0,1,0),(0,2,9))
```

```
  [3,3]((1,0,0),(0,1,0),(0,5,9))
  [3,3]((1,0,0),(0,1,0),(2,0,9))
  [3,3]((1,0,0),(0,1,0),(5,0,9))
  [3,3]((1,0,0),(2,9,0),(0,0,1))
  [3,3]((1,0,0),(5,9,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,4,9))
  [3,3]((1,0,0),(0,1,0),(0,4,9))
  [3,3]((1,0,0),(0,1,0),(0,7,9))
  [3,3]((1,0,0),(0,1,0),(4,0,9))
  [3,3]((1,0,0),(0,1,0),(7,0,9))
  [3,3]((1,0,0),(4,9,0),(0,0,1))
  [3,3]((1,0,0),(7,9,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,8,9))
  [3,3]((1,0,0),(0,1,0),(0,8,9))
  [3,3]((1,0,0),(0,1,0),(8,0,9))
  [3,3]((1,0,0),(8,9,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(1,1,9))
  [3,3]((1,0,0),(0,1,0),(1,1,9))
  [3,3]((1,0,0),(0,1,0),(1,8,9))
  [3,3]((1,0,0),(0,1,0),(8,1,9))
[3,3]((1,0,0),(0,1,0),(1,2,9))
  [3,3]((1,0,0),(0,1,0),(1,2,9))
  [3,3]((1,0,0),(0,1,0),(1,7,9))
  [3,3]((1,0,0),(0,1,0),(2,1,9))
  [3,3]((1,0,0),(0,1,0),(4,5,9))
  [3,3]((1,0,0),(0,1,0),(5,4,9))
  [3,3]((1,0,0),(0,1,0),(7,1,9))
[3,3]((1,0,0),(0,1,0),(1,3,9))
  [3,3]((1,0,0),(0,1,0),(1,3,9))
  [3,3]((1,0,0),(0,1,0),(1,6,9))
  [3,3]((1,0,0),(0,1,0),(3,1,9))
  [3,3]((1,0,0),(0,1,0),(6,1,9))
  [3,3]((1,0,0),(1,3,0),(0,1,3))
  [3,3]((1,0,0),(1,3,0),(0,2,3))
[3,3]((1,0,0),(0,1,0),(1,4,9))
  [3,3]((1,0,0),(0,1,0),(1,4,9))
  [3,3]((1,0,0),(0,1,0),(1,5,9))
  [3,3]((1,0,0),(0,1,0),(2,7,9))
  [3,3]((1,0,0),(0,1,0),(4,1,9))
  [3,3]((1,0,0),(0,1,0),(5,1,9))
  [3,3]((1,0,0),(0,1,0),(7,2,9))
[3,3]((1,0,0),(0,1,0),(2,2,9))
  [3,3]((1,0,0),(0,1,0),(2,2,9))
  [3,3]((1,0,0),(0,1,0),(5,8,9))
  [3,3]((1,0,0),(0,1,0),(8,5,9))
[3,3]((1,0,0),(0,1,0),(2,3,9))
  [3,3]((1,0,0),(0,1,0),(2,3,9))
  [3,3]((1,0,0),(0,1,0),(3,2,9))
  [3,3]((1,0,0),(0,1,0),(3,5,9))
  [3,3]((1,0,0),(0,1,0),(5,3,9))
  [3,3]((1,0,0),(2,3,0),(0,1,3))
  [3,3]((1,0,0),(2,3,0),(2,1,3))
[3,3]((1,0,0),(0,1,0),(2,4,9))
  [3,3]((1,0,0),(0,1,0),(2,4,9))
  [3,3]((1,0,0),(0,1,0),(4,2,9))
  [3,3]((1,0,0),(0,1,0),(4,7,9))
  [3,3]((1,0,0),(0,1,0),(5,7,9))
  [3,3]((1,0,0),(0,1,0),(7,4,9))
  [3,3]((1,0,0),(0,1,0),(7,5,9))
[3,3]((1,0,0),(0,1,0),(2,5,9))
  [3,3]((1,0,0),(0,1,0),(2,5,9))
  [3,3]((1,0,0),(0,1,0),(5,2,9))
[3,3]((1,0,0),(0,1,0),(2,6,9))
  [3,3]((1,0,0),(0,1,0),(2,6,9))
  [3,3]((1,0,0),(0,1,0),(5,6,9))
  [3,3]((1,0,0),(0,1,0),(6,2,9))
  [3,3]((1,0,0),(0,1,0),(6,5,9))
  [3,3]((1,0,0),(2,3,0),(0,2,3))
  [3,3]((1,0,0),(2,3,0),(1,2,3))
[3,3]((1,0,0),(0,1,0),(2,8,9))
  [3,3]((1,0,0),(0,1,0),(2,8,9))
  [3,3]((1,0,0),(0,1,0),(5,5,9))
  [3,3]((1,0,0),(0,1,0),(8,2,9))
[3,3]((1,0,0),(0,1,0),(3,4,9))
  [3,3]((1,0,0),(0,1,0),(3,4,9))
  [3,3]((1,0,0),(0,1,0),(4,3,9))
  [3,3]((1,0,0),(0,1,0),(6,7,9))
  [3,3]((1,0,0),(0,1,0),(7,6,9))
  [3,3]((1,0,0),(1,3,0),(2,1,3))
  [3,3]((1,0,0),(1,3,0),(2,2,3))
```

```
[3,3]((1,0,0),(0,1,0),(3,7,9))
  [3,3]((1,0,0),(0,1,0),(3,7,9))
  [3,3]((1,0,0),(0,1,0),(4,6,9))
  [3,3]((1,0,0),(0,1,0),(6,4,9))
  [3,3]((1,0,0),(0,1,0),(7,3,9))
  [3,3]((1,0,0),(1,3,0),(1,1,3))
  [3,3]((1,0,0),(1,3,0),(1,2,3))
[3,3]((1,0,0),(0,1,0),(3,8,9))
  [3,3]((1,0,0),(0,1,0),(3,8,9))
  [3,3]((1,0,0),(0,1,0),(8,3,9))
  [3,3]((1,0,0),(2,3,0),(1,1,3))
[3,3]((1,0,0),(0,1,0),(4,4,9))
  [3,3]((1,0,0),(0,1,0),(4,4,9))
  [3,3]((1,0,0),(0,1,0),(7,8,9))
  [3,3]((1,0,0),(0,1,0),(8,7,9))
[3,3]((1,0,0),(0,1,0),(4,8,9))
  [3,3]((1,0,0),(0,1,0),(4,8,9))
  [3,3]((1,0,0),(0,1,0),(7,7,9))
  [3,3]((1,0,0),(0,1,0),(8,4,9))
[3,3]((1,0,0),(0,1,0),(6,8,9))
  [3,3]((1,0,0),(0,1,0),(6,8,9))
  [3,3]((1,0,0),(0,1,0),(8,6,9))
  [3,3]((1,0,0),(2,3,0),(2,2,3))
[3,3]((1,0,0),(0,1,0),(8,8,9))
  [3,3]((1,0,0),(0,1,0),(8,8,9))
[3,3]((1,0,0),(1,3,0),(1,0,3))
  [3,3]((1,0,0),(1,3,0),(1,0,3))
[3,3]((1,0,0),(1,3,0),(2,0,3))
  [3,3]((1,0,0),(1,3,0),(2,0,3))
  [3,3]((1,0,0),(2,3,0),(1,0,3))
  [3,3]((1,0,0),(2,3,0),(2,0,3))
```

9.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,9)); lvl=0; h,r-ind=9,9
  [3,3]((1,0,0),(0,2,9),(0,1,0)); lvl=1; h,r-ind=9,9
    [3,3]((1,0,0),(0,1,4),(0,2,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,2,5),(0,1,4)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,0,0),(0,1,0),(0,2,5)); lvl=2; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,1,9),(0,2,9)); lvl=1; h,r-ind=9,9
    [3,3]((1,0,0),(0,1,9),(0,2,13)); lvl=2; h,r-ind=5,5; optimized-h
    [3,3]((1,0,0),(0,1,5),(0,2,13)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,0,0),(0,1,5),(0,2,9)); lvl=2; h,r-ind=1,1
```

9.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,2,9)); lvl=0; h,r-ind=9,9
  [3,3]((1,0,0),(0,1,4),(0,2,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,2,5),(0,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(0,2,5)); lvl=1; h,r-ind=5,5; optimized-h
```

9.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,4,9)); lvl=0; h,r-ind=9,9
  [3,3]((1,0,0),(0,1,2),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,4,9),(0,1,2)); lvl=1; h,r-ind=1,1
```

9.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,8,9)); lvl=0; h,r-ind=9,9
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,1),(0,8,9)); lvl=1; h,r-ind=1,1
```

9.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,9)); lvl=0; h,r-ind=9,81
  [3,3]((0,1,0),(1,1,8),(2,2,9)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,0,0),(1,1,8),(2,2,9)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,0,0),(0,1,0),(2,2,9)); lvl=1; h,r-ind=9,81
    [3,3]((1,0,0),(1,1,4),(2,2,5)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((0,1,0),(1,1,4),(2,2,5)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((2,2,9),(0,1,0),(1,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(2,2,5)); lvl=2; h,r-ind=5,25; optimized-h
    [3,3]((2,2,9),(1,0,0),(1,1,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,9),(0,1,0),(1,1,8)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,9),(1,1,8)); lvl=1; h,r-ind=1,1
```

9.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,9)); lvl=0; h,r-ind=9,81
  [5,3]((1,1,4),(2,4,9),(2,2,5),(1,2,7),(2,3,12)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,11),(2,3,9),(1,1,3),(1,1,4)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,10),(4,5,17),(1,1,3),(2,3,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,1,3),(4,5,17),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(4,5,17),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(1,1,3),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(2,3,9),(3,4,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(4,5,17),(1,1,3)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,10),(2,3,11),(1,1,4),(4,5,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,11),(3,4,14),(1,1,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,17),(3,4,14),(1,1,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(4,5,17),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(2,3,11),(3,4,14)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,11),(2,3,12),(1,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,7),(2,3,11),(2,3,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(2,4,11),(2,3,9),(1,1,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,11),(2,3,9),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,9),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,11),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,2,5),(3,5,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,7),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,5),(2,3,7),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(1,2,5),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,7),(2,4,11),(2,3,11),(2,3,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,6),(2,3,9),(2,3,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,7),(1,2,6),(2,3,11),(2,3,10)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,11),(2,3,10),(3,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,3,10),(3,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(1,2,6),(3,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(2,3,11),(3,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,11),(1,2,6),(2,3,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,9),(1,2,7),(2,3,12)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,9),(1,1,4),(2,3,12)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,4),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,2,9),(1,0,0),(1,1,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,9),(1,2,7)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,2,9),(0,1,0),(1,2,7)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(1,0,0),(2,4,9),(2,2,5)); lvl=1; h,r-ind=1,1
    [4,3]((2,2,5),(2,3,7),(1,1,2),(2,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,6),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,5),(1,1,2),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,5),(2,3,7),(3,4,9)); lvl=3; h,r-ind=1,1
    [5,3]((1,2,3),(2,4,5),(2,2,3),(1,1,2),(2,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,7),(2,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
      [6,3]((6,9,14),(5,7,11),(3,4,6),(3,5,7),(5,8,12),(2,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,4),(4,6,9),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(4,6,9),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(5,7,11),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,7),(2,3,4),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,12),(3,5,7),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(5,8,12),(4,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(2,2,3),(2,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(6,9,14),(5,8,12),(2,3,5)); lvl=3; h,r-ind=1,1
        [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(6,9,14),(7,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(5,8,12),(7,11,17)); lvl=4; h,r-ind=1,1
      [4,3]((5,7,11),(3,4,6),(2,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
```

```
        [3,3]((4,5,8),(2,2,3),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(4,5,8),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(5,7,11),(4,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(4,5,8),(2,2,3)); lvl=4; h,r-ind=1,1
      [4,3]((6,9,14),(5,7,11),(2,3,5),(1,1,2)); lvl=3; h,r-ind=1,1
        [3,3]((7,10,16),(1,1,2),(5,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(7,10,16),(5,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((7,10,16),(2,3,5),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(7,10,16),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(2,3,6),(1,1,2)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(3,5,7),(5,8,12),(2,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(4,7,10),(3,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(5,8,12),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,9),(1,2,4),(2,3,7),(2,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,6),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,6),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(1,2,4),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(2,3,7),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,9),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,5),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(1,0,0),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(2,4,5),(2,2,3),(1,0,0)); lvl=2; h,r-ind=1,1
      [4,3]((2,4,5),(2,3,4),(1,2,2),(2,3,3)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(2,3,4),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((2,2,3),(2,3,4),(1,1,1),(2,3,3)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(1,1,1),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
```

9.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,9)); lvl=0; h,r-ind=9,27
  [4,3]((1,0,0),(2,3,9),(1,3,6),(2,6,9)); lvl=1; h,r-ind=9,3
    [4,3]((1,3,5),(2,3,6),(1,3,6),(1,2,5)); lvl=2; h,r-ind=1,3
      [3,3]((1,2,4),(2,3,6),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,6),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,4),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,4),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,6),(1,2,5)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((2,3,9),(1,1,3),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(2,3,6)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,3,5),(1,2,3),(2,3,6)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,0,0),(1,2,3),(2,3,6)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,3,5),(2,6,9),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,6),(2,6,9)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,3,9),(0,1,0),(1,3,6)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,6,9)); lvl=1; h,r-ind=9,27
    [3,3]((1,2,2),(2,5,5),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,5),(0,1,0)); lvl=2; h,r-ind=3,9; optimized-h
    [3,3]((2,6,9),(1,3,4),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,2),(0,1,0)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,2,3),(1,0,0),(1,2,2)); lvl=2; h,r-ind=2,2; optimized-h
    [4,3]((1,2,3),(1,3,4),(1,2,2),(2,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,5),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,2),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,6,9),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,9),(2,3,9),(1,3,6)); lvl=1; h,r-ind=9,3
    [4,3]((2,5,13),(2,6,15),(1,2,6),(1,3,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,6),(1,3,9),(1,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(4,10,27),(1,3,8)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((2,5,13),(2,6,15),(4,10,27),(1,3,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,21),(2,6,15),(1,3,8)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,27),(3,8,21),(1,3,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,13),(3,8,21),(2,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,27),(2,5,13),(3,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,5,13),(4,10,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,5,13),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(1,2,5),(1,2,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(1,3,6),(2,5,13),(2,6,15)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,13),(4,10,25),(2,6,15),(1,3,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,15),(3,8,20),(1,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,25),(3,8,20),(1,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,13),(4,10,25),(3,8,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,13),(2,6,15),(3,8,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(4,10,25),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,3,6),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,13),(4,10,25)); lvl=3; h,r-ind=1,1
```

9.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,4,9)); lvl=0; h,r-ind=9,81
  [5,3]((1,4,5),(2,8,9),(2,2,3),(1,1,2),(2,5,10)); lvl=1; h,r-ind=3,1
    [4,3]((1,3,4),(2,5,7),(2,8,9),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,14,18),(4,13,15),(2,5,6)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc
        [4,3]((3,9,11),(5,14,18),(7,19,24),(6,17,21)); lvl=4; h,r-ind=1,1
          [4,3]((6,17,21),(13,37,46),(4,11,14),(7,19,24)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((13,37,46),(10,28,35),(4,11,14)); lvl=6; h,r-ind=1,1
            [3,3]((7,19,24),(10,28,35),(4,11,14)); lvl=6; h,r-ind=1,1
            [3,3]((6,17,21),(13,37,46),(10,28,35)); lvl=6; h,r-ind=1,1
            [3,3]((7,19,24),(6,17,21),(10,28,35)); lvl=6; h,r-ind=1,1
          [3,3]((3,9,11),(13,37,46),(4,11,14)); lvl=5; h,r-ind=1,1
          [3,3]((3,9,11),(5,14,18),(4,11,14)); lvl=5; h,r-ind=1,1
          [3,3]((6,17,21),(3,9,11),(13,37,46)); lvl=5; h,r-ind=1,1
        [4,3]((2,6,7),(2,5,6),(7,19,24),(6,17,21)); lvl=4; h,r-ind=1,1
          [4,3]((6,17,21),(3,8,10),(7,19,24),(11,31,38)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,8,10),(9,25,31),(7,19,24)); lvl=6; h,r-ind=1,1
            [3,3]((6,17,21),(9,25,31),(7,19,24)); lvl=6; h,r-ind=1,1
            [3,3]((11,31,38),(6,17,21),(9,25,31)); lvl=6; h,r-ind=1,1
            [3,3]((11,31,38),(3,8,10),(9,25,31)); lvl=6; h,r-ind=1,1
          [3,3]((2,6,7),(6,17,21),(11,31,38)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,7),(3,8,10),(11,31,38)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,7),(3,8,10),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,7),(3,9,11),(6,17,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(4,13,15),(3,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,7),(5,14,18),(2,5,6)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,3,4),(2,5,7),(5,14,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(2,8,9),(5,14,18),(4,13,15)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,9,11),(2,7,8),(7,22,27)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,3,4),(2,8,9),(2,7,8),(7,22,27)); lvl=4; h,r-ind=1,3
          [3,3]((3,10,12),(2,8,9),(2,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((7,22,27),(3,10,12),(2,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(7,22,27),(3,10,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(3,10,12),(2,8,9)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,4),(5,14,18),(3,9,11),(7,22,27)); lvl=4; h,r-ind=1,3
          [3,3]((4,12,15),(3,9,11),(5,14,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(4,12,15),(5,14,18)); lvl=5; h,r-ind=1,1
          [3,3]((7,22,27),(4,12,15),(3,9,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(7,22,27),(4,12,15)); lvl=5; h,r-ind=1,1
        [3,3]((4,13,15),(3,9,11),(2,7,8)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,7),(2,2,3),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,15),(2,5,6),(2,5,7)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,3),(5,11,15),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,15),(4,7,9),(2,5,6)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc
        [4,3]((6,13,17),(7,16,21),(3,6,8),(5,11,15)); lvl=4; h,r-ind=1,1
          [3,3]((3,6,8),(4,9,12),(5,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((3,6,8),(13,28,37),(4,9,12)); lvl=5; h,r-ind=1,1
          [3,3]((3,6,8),(6,13,17),(13,28,37)); lvl=5; h,r-ind=1,1
          [4,3]((6,13,17),(13,28,37),(4,9,12),(7,16,21)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((13,28,37),(10,22,29),(4,9,12)); lvl=6; h,r-ind=1,1
            [3,3]((7,16,21),(10,22,29),(4,9,12)); lvl=6; h,r-ind=1,1
            [3,3]((6,13,17),(7,16,21),(10,22,29)); lvl=6; h,r-ind=1,1
            [3,3]((6,13,17),(13,28,37),(10,22,29)); lvl=6; h,r-ind=1,1
        [3,3]((2,4,5),(6,13,17),(3,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(4,7,9),(3,6,8)); lvl=4; h,r-ind=1,1
        [4,3]((2,4,5),(2,5,6),(6,13,17),(7,16,21)); lvl=4; h,r-ind=1,1
          [4,3]((6,13,17),(11,24,31),(3,7,9),(7,16,21)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((11,24,31),(9,20,26),(3,7,9)); lvl=6; h,r-ind=1,1
```

```
            [3,3]((7,16,21),(9,20,26),(3,7,9)); lvl=6; h,r-ind=1,1
            [3,3]((6,13,17),(7,16,21),(9,20,26)); lvl=6; h,r-ind=1,1
            [3,3]((6,13,17),(11,24,31),(9,20,26)); lvl=6; h,r-ind=1,1
          [3,3]((2,4,5),(6,13,17),(11,24,31)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,5),(11,24,31),(3,7,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,5),(3,7,9),(2,5,6)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,3),(5,11,15),(2,2,3),(4,7,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,3,4),(3,6,8),(7,13,18)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,3),(5,11,15),(3,6,8),(7,13,18)); lvl=4; h,r-ind=1,3
          [3,3]((4,8,11),(5,11,15),(3,6,8)); lvl=5; h,r-ind=1,1
          [3,3]((7,13,18),(4,8,11),(3,6,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(7,13,18),(4,8,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(4,8,11),(5,11,15)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,3),(2,2,3),(2,3,4),(7,13,18)); lvl=4; h,r-ind=1,3
          [3,3]((3,5,7),(2,3,4),(2,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(3,5,7),(2,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((7,13,18),(3,5,7),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(7,13,18),(3,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,9),(2,3,4),(3,6,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(4,10,15),(3,8,12),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,12),(4,10,15),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(4,10,15),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,12),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(1,3,4),(5,13,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(1,3,5),(1,3,4),(3,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((2,6,9),(1,3,5),(3,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,9),(1,3,4),(3,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,6,9),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,6,9),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(4,10,15),(3,7,11),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,11),(4,10,15),(5,12,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(4,10,15),(5,12,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(5,12,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,11),(5,12,18)); lvl=3; h,r-ind=1,1
    [5,3]((1,3,5),(4,10,15),(3,7,11),(3,8,12),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,8),(1,2,4),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,15),(2,5,8),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,15),(3,8,12),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,8),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,12),(1,3,5),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,10),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(3,7,11),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,7),(1,2,4),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,7),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,2),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,4,7),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(1,3,4),(2,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,9),(1,1,2),(2,5,10)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,4,9),(1,4,5),(2,5,10)); lvl=1; h,r-ind=12,12; alert-h-inc
    [3,3]((1,4,9),(1,4,7),(1,3,6)); lvl=2; h,r-ind=2,2; optimized-h
    [4,3]((1,4,5),(1,3,5),(1,4,7),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(3,10,17),(1,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,6),(1,4,7),(3,10,17),(1,3,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,7),(2,7,12),(1,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,17),(2,7,12),(1,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(3,10,17),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(1,4,7),(2,7,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,5),(1,4,6),(1,3,5),(3,10,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,6),(3,10,17),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(3,10,17),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(1,4,6),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(1,4,5),(2,7,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,10),(1,3,5),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,10),(1,4,9),(1,3,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,5),(2,8,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,9),(0,1,0),(1,4,5)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,9),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,8,9),(1,0,0),(2,2,3)); lvl=1; h,r-ind=3,3
    [4,3]((2,5,5),(2,8,9),(2,5,6),(1,4,4)); lvl=2; h,r-ind=3,1
      [4,3]((1,3,3),(1,4,4),(2,8,9),(4,13,15)); lvl=3; h,r-ind=1,1
        [4,3]((2,7,8),(1,4,4),(2,8,9),(4,14,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,4,4),(2,8,9),(3,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(2,8,9),(3,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,15),(1,4,4),(3,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(4,14,15),(3,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(4,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(4,13,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,4,4),(4,14,15)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,3,3),(2,5,6),(4,13,15)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((2,5,5),(1,3,3),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,5),(1,4,4)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((0,1,0),(2,8,9),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,5),(2,2,3),(2,5,6),(1,1,1)); lvl=2; h,r-ind=3,1
      [4,3]((1,2,2),(1,1,1),(2,2,3),(4,7,9)); lvl=3; h,r-ind=1,1
        [4,3]((4,6,7),(2,3,4),(2,2,3),(1,1,1)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,7),(2,3,4),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(4,6,7),(3,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(4,6,7),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(4,6,7),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(4,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(4,7,9)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((2,5,5),(1,2,2),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,5),(1,1,1)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
```

9.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,2,9)); lvl=0; h,r-ind=9,81
  [3,3]((1,0,0),(1,1,4),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,1,4),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,2,9),(0,1,0),(1,1,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,5)); lvl=1; h,r-ind=5,25; optimized-h
  [3,3]((2,2,9),(1,0,0),(1,1,4)); lvl=1; h,r-ind=1,1
```

9.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,9)); lvl=0; h,r-ind=9,27
  [4,3]((4,6,9),(2,3,6),(1,1,3),(1,0,0)); lvl=1; h,r-ind=3,3
    [3,3]((1,1,2),(1,1,3),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(1,1,2),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,9),(5,6,9),(2,3,5),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(5,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,13),(1,1,2),(3,4,6)); lvl=3; h,r-ind=1,1
      [4,3]((4,6,9),(2,3,5),(6,8,13),(3,4,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,11),(2,3,5),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(5,7,11),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(3,4,6),(5,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(5,7,11),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(6,8,13),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,9),(1,0,0),(1,1,2)); lvl=2; h,r-ind=3,3; optimized-h
  [4,3]((0,1,0),(2,4,5),(4,6,9),(1,0,0)); lvl=1; h,r-ind=1,1
    [6,3]((3,5,7),(3,5,6),(3,4,5),(4,6,7),(4,6,9),(5,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(4,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,6),(5,6,9),(2,3,4),(4,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,7),(5,6,9),(7,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(5,6,9),(7,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,6),(7,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(4,5,7),(7,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,9),(3,4,6),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(4,6,9),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(4,6,7),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(2,3,4),(4,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(3,5,6),(2,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,1),(3,4,5),(5,6,9)); lvl=2; h,r-ind=1,1
      [4,3]((8,9,12),(5,6,8),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((5,6,8),(3,4,5),(6,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(6,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,12),(5,6,8),(6,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(8,9,12),(6,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,7),(5,6,8),(3,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,3),(8,9,12),(1,1,1)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,2,3),(3,3,4),(8,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,3,4),(8,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((4,5,7),(2,2,3),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
        [3,3]((2,2,3),(8,9,12),(7,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,8),(8,9,12),(7,8,11)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((4,5,7),(5,6,8),(7,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,7),(2,2,3),(7,8,11)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,7),(5,6,9),(2,2,3)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,1),(2,3,3),(3,4,5),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(4,6,7),(5,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(4,6,7),(5,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(5,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(1,1,1),(5,7,8)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,2),(3,5,6),(2,3,3),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(4,6,7),(5,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,6),(4,6,7),(5,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(3,5,6),(5,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(5,8,9)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [4,3]((2,4,5),(1,2,2),(3,5,7),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(3,5,7),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(4,7,9),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,2),(4,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(4,7,9),(3,5,7)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
[5,3]((2,4,5),(1,2,3),(3,5,10),(4,6,9),(2,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,6),(3,5,10),(3,5,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,3),(3,5,10),(3,5,9)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,5),(2,3,6),(3,5,8),(3,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,14),(3,5,9),(3,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(5,8,14),(3,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(5,8,14),(3,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,6),(5,8,14)); lvl=3; h,r-ind=1,1
  [4,3]((9,16,24),(1,2,3),(3,5,8),(3,5,9)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((4,7,11),(3,5,8),(3,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,11),(1,2,3),(3,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((9,16,24),(4,7,11),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((9,16,24),(4,7,11),(3,5,8)); lvl=3; h,r-ind=1,1
  [4,3]((2,4,5),(5,9,13),(9,16,24),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,16),(5,9,13),(9,16,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(6,11,16),(9,16,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(6,11,16),(5,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,5),(6,11,16)); lvl=3; h,r-ind=1,1
  [5,3]((3,5,7),(5,9,13),(9,16,24),(2,3,5),(3,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((8,14,21),(12,20,31),(7,12,18),(3,5,8)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((10,17,26),(7,12,18),(12,20,31)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,8),(10,17,26),(12,20,31)); lvl=4; h,r-ind=1,1
      [3,3]((8,14,21),(10,17,26),(7,12,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,8),(8,14,21),(10,17,26)); lvl=4; h,r-ind=1,1
    [3,3]((9,16,24),(8,14,21),(3,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((5,9,13),(9,16,24),(8,14,21)); lvl=3; h,r-ind=1,1
    [4,3]((5,9,13),(4,7,10),(8,14,21),(7,12,18)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,18),(4,7,10),(12,21,31)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,13),(4,7,10),(12,21,31)); lvl=4; h,r-ind=1,1
      [3,3]((8,14,21),(5,9,13),(12,21,31)); lvl=4; h,r-ind=1,1
      [3,3]((8,14,21),(7,12,18),(12,21,31)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,5),(12,20,31),(3,5,8)); lvl=3; h,r-ind=1,1
    [5,3]((3,5,7),(4,7,10),(2,3,5),(12,20,31),(7,12,18)); lvl=3; h,r-ind=1,1
      [4,3]((9,15,23),(7,12,18),(13,22,33),(15,25,38)); lvl=4; h,r-ind=1,1
        [3,3]((22,37,56),(13,22,33),(7,12,18)); lvl=5; h,r-ind=1,1
        [3,3]((9,15,23),(22,37,56),(7,12,18)); lvl=5; h,r-ind=1,1
        [3,3]((15,25,38),(22,37,56),(13,22,33)); lvl=5; h,r-ind=1,1
        [3,3]((9,15,23),(15,25,38),(22,37,56)); lvl=5; h,r-ind=1,1
      [4,3]((6,10,15),(4,7,10),(13,22,33),(15,25,38)); lvl=4; h,r-ind=1,1
        [3,3]((19,32,48),(13,22,33),(4,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((6,10,15),(19,32,48),(4,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((15,25,38),(19,32,48),(13,22,33)); lvl=5; h,r-ind=1,1
        [3,3]((6,10,15),(15,25,38),(19,32,48)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,7),(6,10,15),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(9,15,23),(15,25,38)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,15),(2,3,5),(15,25,38)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,7),(6,10,15),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((9,15,23),(12,20,31),(7,12,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(9,15,23),(12,20,31)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,10),(7,12,18),(13,22,33)); lvl=4; h,r-ind=1,1
  [3,3]((3,5,7),(4,6,9),(2,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,4,5),(3,5,7),(5,9,13)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=1; h,r-ind=1,1
[5,3]((2,3,8),(3,5,12),(3,5,10),(2,3,6),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,7),(3,5,11),(3,5,12)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,8),(2,3,7),(3,5,12)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,8),(1,1,3),(2,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,7),(3,5,11),(3,5,10)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((2,3,7),(3,5,10),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,7),(2,3,6)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,9),(2,3,8),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,9),(2,3,8),(3,5,12)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,3),(3,5,12),(3,5,10)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,4),(6,11,21),(3,5,11),(4,7,14)); lvl=2; h,r-ind=1,1
      [3,3]((5,9,18),(6,11,21),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(5,9,18),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,11),(5,9,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(5,9,18),(6,11,21)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,10),(3,5,11),(4,7,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(6,11,21),(3,5,10),(4,7,14)); lvl=2; h,r-ind=1,1
      [3,3]((6,11,21),(5,9,17),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,10),(5,9,17),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,10),(5,9,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(6,11,21),(5,9,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(1,2,4),(0,1,0),(6,11,21)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,4,7),(0,1,0),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,21),(2,4,7),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(6,11,21),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,7),(0,1,0)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,12),(3,5,11)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,9),(0,1,0),(3,5,12)); lvl=1; h,r-ind=3,3; optimized-h
```

9.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,4,9)); lvl=0; h,r-ind=9,81
  [5,3]((1,1,2),(2,3,6),(1,2,3),(2,4,5),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(1,2,3),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(2,2,3),(3,4,6),(5,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(4,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(1,1,2),(4,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((6,9,14),(2,3,5),(1,2,3),(5,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(1,2,3),(7,11,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(2,4,5),(3,5,7),(5,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,10),(2,4,5),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(3,5,7)); lvl=2; h,r-ind=1,1
    [6,3]((3,4,6),(5,7,11),(6,9,14),(2,3,4),(3,5,7),(5,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(4,6,9),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,6,9),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(5,8,12),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,7),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(5,7,11),(6,9,14),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,7,11),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,1,2),(7,10,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,4,5),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(1,2,2),(2,3,3),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,6),(2,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,5,6),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,4,5),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,6),(2,3,3)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,3),(2,3,4),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,9),(1,1,2),(2,3,6)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((1,0,0),(2,4,9),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,6),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,9),(2,3,6),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,4),(0,1,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,9),(1,2,4),(0,1,0)); lvl=1; h,r-ind=1,1
```

9.12 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,5,9)); lvl=0; h,r-ind=9,81
  [6,3]((2,5,8),(5,12,20),(2,5,5),(2,3,5),(4,5,8),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(5,7,10),(1,2,2)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,3),(2,5,5),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((4,10,13),(1,2,3),(2,5,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,5,8),(4,10,13),(1,2,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,3),(4,5,8),(5,7,10)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,3),(2,3,5),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(7,15,25),(2,3,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((5,12,20),(1,2,3),(7,15,25)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,5,8),(5,12,20),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(4,5,8),(1,2,2)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,8),(0,1,0),(2,5,5)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((2,5,9),(2,5,8),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,5,9),(5,12,20),(2,3,5)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((2,5,9),(2,5,8),(5,12,20)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,5),(4,5,8)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,9),(1,0,0),(2,3,5)); lvl=1; h,r-ind=2,2; optimized-h
```

9.13 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,6,9)); lvl=0; h,r-ind=9,27
  [4,3]((1,2,3),(1,3,4),(1,2,2),(2,5,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,4),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,4),(2,5,5)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((2,6,9),(0,1,0),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,3),(2,6,9),(1,3,4)); lvl=1; h,r-ind=1,1
```

9.14 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,8,9)); lvl=0; h,r-ind=9,81
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,8,9),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,4,4),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,8,9),(0,1,0),(1,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((2,8,9),(1,4,4),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,8,9),(1,1,1),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
```

9.15 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,4,9)); lvl=0; h,r-ind=9,27
  [3,3]((2,2,3),(1,1,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,9),(1,1,2),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,4,9),(3,5,9),(1,1,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(3,4,9),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(0,1,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
```

9.16 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,7,9)); lvl=0; h,r-ind=9,27
  [3,3]((3,5,6),(2,4,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(3,5,6),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,1),(2,3,3),(4,7,8),(3,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(4,7,8),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,7,8),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(1,1,1),(5,8,9)); lvl=2; h,r-ind=1,1
  [5,3]((0,1,0),(3,8,9),(2,3,3),(4,7,8),(3,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,8),(3,6,7),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(3,6,7),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(4,7,8),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((3,8,9),(1,3,3),(3,7,8),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(4,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(1,2,2),(4,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(1,3,3),(4,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(3,8,9),(4,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,9),(2,4,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((4,7,8),(3,5,6),(2,4,5),(3,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,6),(2,4,5),(6,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(2,4,5),(6,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(3,5,6),(6,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(4,7,8),(6,11,13)); lvl=2; h,r-ind=1,1
  [4,3]((3,7,9),(3,8,9),(2,4,5),(3,6,7)); lvl=1; h,r-ind=1,1
    [4,3]((5,11,13),(9,20,24),(2,4,5),(3,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,5),(7,15,18),(9,20,24)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(7,15,18),(9,20,24)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(5,11,13),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(2,4,5),(7,15,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,8),(5,11,13),(3,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,6),(3,7,8),(5,11,13),(9,20,24)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,8),(7,16,19),(5,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((9,20,24),(7,16,19),(5,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(9,20,24),(7,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,7,8),(7,16,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(3,8,9),(3,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,9),(2,5,6),(9,20,24),(2,4,5)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,5,6),(4,9,11),(9,20,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,9,11),(9,20,24)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,4,5),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,5,6),(4,9,11)); lvl=3; h,r-ind=1,1
```

9.17 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,8,9)); lvl=0; h,r-ind=9,27
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,8,9),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,8,9),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(2,3,3),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,3,3),(3,8,9),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

9.18 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,4,9)); lvl=0; h,r-ind=9,81
  [3,3]((1,1,2),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((4,4,9),(0,1,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((4,4,9),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
```

9.19 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,8,9)); lvl=0; h,r-ind=9,81
  [3,3]((2,3,3),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(2,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,8,9),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,8,9),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((4,8,9),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,8,9),(1,1,1)); lvl=1; h,r-ind=1,1
```

9.20 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,8,9)); lvl=0; h,r-ind=9,27
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((6,8,9),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((6,8,9),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
```

9.21 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,8,9)); lvl=0; h,r-ind=9,81
  [3,3]((8,8,9),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(8,8,9),(1,1,1)); lvl=1; h,r-ind=1,1
```

9.22 Resolved

```
[3,3]((1,0,0),(1,3,0),(1,0,3)); lvl=0; h,r-ind=9,3
  [4,3]((1,3,0),(2,3,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=3,3
    [4,3]((1,2,0),(4,6,3),(1,1,1),(2,3,0)); lvl=2; h,r-ind=1,3
      [3,3]((1,1,1),(4,6,3),(2,3,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,0),(4,6,3),(2,3,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,0),(1,1,1),(2,3,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,0),(2,3,0),(2,3,1)); lvl=3; h,r-ind=1,1
    [4,3]((4,6,3),(1,2,1),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,3
      [3,3]((2,3,2),(1,2,1),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,2),(1,1,1),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,3),(2,3,2),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,3),(2,3,2),(1,2,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,0),(4,6,3),(1,2,1)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,2,0),(1,3,0),(1,2,1)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,3),(2,0,3),(2,3,3),(1,1,1)); lvl=1; h,r-ind=3,3
    [4,3]((1,0,2),(4,3,6),(1,1,1),(2,0,3)); lvl=2; h,r-ind=1,3
      [3,3]((1,1,1),(2,1,3),(4,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,2),(2,1,3),(4,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,0,3),(1,1,1),(2,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,2),(2,0,3),(2,1,3)); lvl=3; h,r-ind=1,1
    [4,3]((4,3,6),(2,3,3),(1,1,2),(1,1,1)); lvl=2; h,r-ind=1,3
      [3,3]((1,1,2),(2,2,3),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,2,3),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,3,6),(1,1,1),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,3,6),(1,1,2),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,2),(4,3,6),(1,1,2)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,0,2),(1,0,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,0,3),(2,3,0),(1,1,1)); lvl=1; h,r-ind=3,3
    [4,3]((1,0,1),(2,0,3),(1,1,1),(4,3,3)); lvl=2; h,r-ind=1,3
      [3,3]((1,1,1),(2,1,2),(2,0,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,1),(2,1,2),(2,0,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,3,3),(1,1,1),(2,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,1),(4,3,3),(2,1,2)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,0),(2,3,0),(1,1,1),(4,3,3)); lvl=2; h,r-ind=1,3
      [3,3]((1,1,1),(2,2,1),(2,3,0)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,0),(2,2,1),(2,3,0)); lvl=3; h,r-ind=1,1
      [3,3]((4,3,3),(1,1,0),(2,2,1)); lvl=3; h,r-ind=1,1
      [3,3]((4,3,3),(1,1,1),(2,2,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,0),(1,0,1),(4,3,3)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,0,0),(1,1,0),(1,0,1)); lvl=2; h,r-ind=1,1
```

9.23 Resolved

```
[3,3]((1,0,0),(1,3,0),(2,0,3)); lvl=0; h,r-ind=9,3
  [4,3]((1,0,1),(2,3,0),(2,2,1),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,2,1),(2,3,0),(1,1,0),(4,3,2)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,0),(1,1,0),(3,3,1)); lvl=3; h,r-ind=1,1
      [3,3]((4,3,2),(1,1,0),(3,3,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,1),(4,3,2),(3,3,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,1),(2,3,0),(3,3,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,1),(1,1,0),(4,3,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,1),(1,0,0),(1,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,1),(2,2,1),(4,3,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,1),(1,1,1),(2,2,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,0,3),(1,0,1),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,0),(1,1,1),(2,3,0),(2,2,1)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,2),(1,1,1),(2,2,1)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,0),(4,5,2),(2,3,0),(2,2,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,2),(3,4,1),(2,2,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,0),(3,4,1),(2,2,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,0),(4,5,2),(3,4,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,0),(1,2,0),(3,4,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,0),(4,5,2),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,0),(1,3,0),(1,1,1)); lvl=2; h,r-ind=1,1
```

10 H-index = 10

10.0 Classification

```
[3,3]((1,0,0),(0,1,0),(0,1,10))
  [3,3]((1,0,0),(0,1,0),(0,1,10))
  [3,3]((1,0,0),(0,1,0),(1,0,10))
  [3,3]((1,0,0),(1,10,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,3,10))
  [3,3]((1,0,0),(0,1,0),(0,3,10))
  [3,3]((1,0,0),(0,1,0),(0,7,10))
  [3,3]((1,0,0),(0,1,0),(3,0,10))
  [3,3]((1,0,0),(0,1,0),(7,0,10))
  [3,3]((1,0,0),(3,10,0),(0,0,1))
  [3,3]((1,0,0),(7,10,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,9,10))
  [3,3]((1,0,0),(0,1,0),(0,9,10))
  [3,3]((1,0,0),(0,1,0),(9,0,10))
  [3,3]((1,0,0),(9,10,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(1,1,10))
  [3,3]((1,0,0),(0,1,0),(1,1,10))
  [3,3]((1,0,0),(0,1,0),(1,9,10))
  [3,3]((1,0,0),(0,1,0),(9,1,10))
[3,3]((1,0,0),(0,1,0),(1,2,10))
  [3,3]((1,0,0),(0,1,0),(1,2,10))
  [3,3]((1,0,0),(0,1,0),(1,8,10))
  [3,3]((1,0,0),(0,1,0),(2,1,10))
  [3,3]((1,0,0),(0,1,0),(8,1,10))
  [3,3]((1,0,0),(1,2,0),(0,1,5))
  [3,3]((1,0,0),(1,2,0),(0,4,5))
[3,3]((1,0,0),(0,1,0),(1,3,10))
  [3,3]((1,0,0),(0,1,0),(1,3,10))
  [3,3]((1,0,0),(0,1,0),(1,7,10))
  [3,3]((1,0,0),(0,1,0),(3,1,10))
  [3,3]((1,0,0),(0,1,0),(3,7,10))
  [3,3]((1,0,0),(0,1,0),(7,1,10))
  [3,3]((1,0,0),(0,1,0),(7,3,10))
[3,3]((1,0,0),(0,1,0),(1,4,10))
  [3,3]((1,0,0),(0,1,0),(1,4,10))
  [3,3]((1,0,0),(0,1,0),(1,6,10))
  [3,3]((1,0,0),(0,1,0),(4,1,10))
  [3,3]((1,0,0),(0,1,0),(6,1,10))
  [3,3]((1,0,0),(1,2,0),(0,2,5))
  [3,3]((1,0,0),(1,2,0),(0,3,5))
[3,3]((1,0,0),(0,1,0),(1,5,10))
  [3,3]((1,0,0),(0,1,0),(1,5,10))
  [3,3]((1,0,0),(0,1,0),(5,1,10))
  [3,3]((1,0,0),(1,5,0),(0,1,2))
[3,3]((1,0,0),(0,1,0),(2,3,10))
  [3,3]((1,0,0),(0,1,0),(2,3,10))
  [3,3]((1,0,0),(0,1,0),(3,2,10))
```

```
  [3,3]((1,0,0),(0,1,0),(6,7,10))
  [3,3]((1,0,0),(0,1,0),(7,6,10))
  [3,3]((1,0,0),(1,2,0),(4,1,5))
  [3,3]((1,0,0),(1,2,0),(4,2,5))
[3,3]((1,0,0),(0,1,0),(2,5,10))
  [3,3]((1,0,0),(0,1,0),(2,5,10))
  [3,3]((1,0,0),(0,1,0),(5,2,10))
  [3,3]((1,0,0),(1,2,0),(3,0,5))
  [3,3]((1,0,0),(1,2,0),(3,1,5))
  [3,3]((1,0,0),(2,5,0),(0,1,2))
  [3,3]((1,0,0),(3,5,0),(1,0,2))
[3,3]((1,0,0),(0,1,0),(2,7,10))
  [3,3]((1,0,0),(0,1,0),(2,7,10))
  [3,3]((1,0,0),(0,1,0),(3,4,10))
  [3,3]((1,0,0),(0,1,0),(4,3,10))
  [3,3]((1,0,0),(0,1,0),(7,2,10))
  [3,3]((1,0,0),(1,2,0),(2,1,5))
  [3,3]((1,0,0),(1,2,0),(2,3,5))
[3,3]((1,0,0),(0,1,0),(2,9,10))
  [3,3]((1,0,0),(0,1,0),(2,9,10))
  [3,3]((1,0,0),(0,1,0),(9,2,10))
  [3,3]((1,0,0),(1,2,0),(1,1,5))
[3,3]((1,0,0),(0,1,0),(3,3,10))
  [3,3]((1,0,0),(0,1,0),(3,3,10))
  [3,3]((1,0,0),(0,1,0),(7,9,10))
  [3,3]((1,0,0),(0,1,0),(9,7,10))
[3,3]((1,0,0),(0,1,0),(3,5,10))
  [3,3]((1,0,0),(0,1,0),(3,5,10))
  [3,3]((1,0,0),(0,1,0),(5,3,10))
  [3,3]((1,0,0),(0,1,0),(5,7,10))
  [3,3]((1,0,0),(0,1,0),(7,5,10))
  [3,3]((1,0,0),(2,5,0),(1,1,2))
  [3,3]((1,0,0),(3,5,0),(0,1,2))
[3,3]((1,0,0),(0,1,0),(3,6,10))
  [3,3]((1,0,0),(0,1,0),(3,6,10))
  [3,3]((1,0,0),(0,1,0),(6,3,10))
  [3,3]((1,0,0),(0,1,0),(7,8,10))
  [3,3]((1,0,0),(0,1,0),(8,7,10))
  [3,3]((1,0,0),(1,2,0),(3,2,5))
  [3,3]((1,0,0),(1,2,0),(3,4,5))
[3,3]((1,0,0),(0,1,0),(3,8,10))
  [3,3]((1,0,0),(0,1,0),(3,8,10))
  [3,3]((1,0,0),(0,1,0),(4,7,10))
  [3,3]((1,0,0),(0,1,0),(7,4,10))
  [3,3]((1,0,0),(0,1,0),(8,3,10))
  [3,3]((1,0,0),(1,2,0),(1,3,5))
  [3,3]((1,0,0),(1,2,0),(1,4,5))
[3,3]((1,0,0),(0,1,0),(3,9,10))
  [3,3]((1,0,0),(0,1,0),(3,9,10))
  [3,3]((1,0,0),(0,1,0),(7,7,10))
  [3,3]((1,0,0),(0,1,0),(9,3,10))
[3,3]((1,0,0),(0,1,0),(4,5,10))
  [3,3]((1,0,0),(0,1,0),(4,5,10))
  [3,3]((1,0,0),(0,1,0),(5,4,10))
  [3,3]((1,0,0),(1,2,0),(4,0,5))
  [3,3]((1,0,0),(1,2,0),(4,3,5))
  [3,3]((1,0,0),(4,5,0),(0,1,2))
  [3,3]((1,0,0),(4,5,0),(1,0,2))
[3,3]((1,0,0),(0,1,0),(4,9,10))
  [3,3]((1,0,0),(0,1,0),(4,9,10))
  [3,3]((1,0,0),(0,1,0),(9,4,10))
  [3,3]((1,0,0),(1,2,0),(3,3,5))
[3,3]((1,0,0),(0,1,0),(5,6,10))
  [3,3]((1,0,0),(0,1,0),(5,6,10))
  [3,3]((1,0,0),(0,1,0),(6,5,10))
  [3,3]((1,0,0),(1,2,0),(1,0,5))
  [3,3]((1,0,0),(1,2,0),(1,2,5))
  [3,3]((1,0,0),(1,5,0),(1,0,2))
  [3,3]((1,0,0),(1,5,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(5,8,10))
  [3,3]((1,0,0),(0,1,0),(5,8,10))
  [3,3]((1,0,0),(0,1,0),(8,5,10))
  [3,3]((1,0,0),(1,2,0),(2,0,5))
  [3,3]((1,0,0),(1,2,0),(2,4,5))
  [3,3]((1,0,0),(2,5,0),(1,0,2))
  [3,3]((1,0,0),(3,5,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(5,9,10))
  [3,3]((1,0,0),(0,1,0),(5,9,10))
  [3,3]((1,0,0),(0,1,0),(9,5,10))
  [3,3]((1,0,0),(4,5,0),(1,1,2))
```

```
[3,3]((1,0,0),(0,1,0),(6,9,10))
  [3,3]((1,0,0),(0,1,0),(6,9,10))
  [3,3]((1,0,0),(0,1,0),(9,6,10))
  [3,3]((1,0,0),(1,2,0),(2,2,5))
[3,3]((1,0,0),(0,1,0),(8,9,10))
  [3,3]((1,0,0),(0,1,0),(8,9,10))
  [3,3]((1,0,0),(0,1,0),(9,8,10))
  [3,3]((1,0,0),(1,2,0),(4,4,5))
[3,3]((1,0,0),(0,1,0),(9,9,10))
  [3,3]((1,0,0),(0,1,0),(9,9,10))
```

10.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,10)); lvl=0; h,r-ind=10,10
  [3,3]((1,0,0),(0,1,5),(0,1,0)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,1,10),(0,1,5)); lvl=1; h,r-ind=5,5; optimized-h
```

10.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,3,10)); lvl=0; h,r-ind=10,10
  [3,3]((1,0,0),(0,1,0),(0,1,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,1,3),(0,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,3,10),(0,1,3)); lvl=1; h,r-ind=1,1
```

10.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,9,10)); lvl=0; h,r-ind=10,10
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,1),(0,9,10)); lvl=1; h,r-ind=1,1
```

10.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,10)); lvl=0; h,r-ind=10,100
  [3,3]((1,0,0),(1,1,9),(1,1,5)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((0,1,0),(1,1,9),(1,1,5)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,1,10),(0,1,0),(1,1,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,5)); lvl=1; h,r-ind=5,25; optimized-h
  [3,3]((1,1,10),(1,0,0),(1,1,9)); lvl=1; h,r-ind=1,1
```

10.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,10)); lvl=0; h,r-ind=10,50
  [4,3]((1,2,8),(1,2,5),(1,0,0),(1,1,5)); lvl=1; h,r-ind=1,2
    [3,3]((1,2,5),(1,0,0),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,7),(1,0,0),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,7),(1,1,4),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,5),(1,1,4),(1,0,0)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,13),(2,2,7),(1,2,5),(1,1,3)); lvl=2; h,r-ind=1,1
      [4,3]((2,2,7),(3,4,13),(1,1,3),(5,7,22)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,16),(3,4,13),(5,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(4,5,16),(5,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,7),(4,5,16),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(2,2,7),(4,5,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,6),(1,2,5),(1,1,3),(5,7,22)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,3,9),(1,2,5),(1,1,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,22),(2,3,9),(1,1,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(5,7,22),(2,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,3,9),(1,2,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,6),(2,3,10),(3,4,13),(5,7,22)); lvl=3; h,r-ind=1,1
        [3,3]((4,6,19),(2,3,10),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,22),(4,6,19),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(5,7,22),(4,6,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(4,6,19),(2,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,13),(1,2,6),(2,3,10)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,3,10),(2,2,7),(3,4,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,8),(2,4,13),(2,2,7),(1,1,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,14),(2,3,10),(2,2,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,4),(3,4,14),(5,7,25),(2,2,7)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,18),(5,7,25),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,7),(4,5,18),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(2,2,7),(4,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(4,5,18),(5,7,25)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,7),(1,2,8),(1,1,4),(5,7,25)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,3,11),(1,2,8),(1,1,4)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,25),(2,3,11),(1,1,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(5,7,25),(2,3,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(2,3,11),(1,2,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,7),(3,4,14),(5,7,25),(2,3,10)); lvl=3; h,r-ind=1,1
        [3,3]((4,6,21),(5,7,25),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(4,6,21),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(2,3,10),(4,6,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(4,6,21),(5,7,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(2,4,13),(2,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,8),(1,1,5),(1,1,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,10),(1,2,8),(1,1,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,8),(1,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,2,10),(0,1,0),(1,2,8)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,5),(1,0,0)); lvl=1; h,r-ind=5,25; optimized-h
```

10.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,10)); lvl=0; h,r-ind=10,100
  [5,3]((1,2,6),(1,1,3),(1,1,2),(1,3,7),(1,3,5)); lvl=1; h,r-ind=1,2
    [4,3]((2,4,9),(1,2,4),(1,1,2),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,11),(1,2,4),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(3,5,11),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(2,3,7),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(3,5,11),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,2),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(2,4,9),(1,2,5),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,9),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,4,9),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,2,5),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(1,1,3),(3,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(1,1,3),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,9),(1,2,5),(1,3,6),(1,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,11),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,11),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,9),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(1,3,6),(2,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(1,2,5),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,4),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,9),(1,3,6),(1,3,5),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,10),(1,3,5),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(2,5,10),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(1,2,4),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(2,5,10),(1,2,4)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,7),(1,3,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,3,10),(0,1,0),(1,3,7)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,0,0),(0,1,0),(1,1,2),(1,3,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,2),(1,1,1),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,3),(1,1,1),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,2),(1,2,3),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
    [5,3]((2,5,7),(1,2,3),(1,2,2),(2,5,5),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,5),(2,3,4),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((2,4,5),(6,13,16),(5,11,14),(1,2,3)); lvl=3; h,r-ind=1,1
```

```
        [3,3]((5,11,14),(6,13,16),(7,15,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(6,13,16),(7,15,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,5),(7,15,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(5,11,14),(7,15,19)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,7),(5,11,14),(3,7,9),(1,2,3)); lvl=3; h,r-ind=1,1
        [3,3]((4,9,12),(3,7,9),(5,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(4,9,12),(5,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,7),(4,9,12),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,5,7),(4,9,12)); lvl=4; h,r-ind=1,1
      [6,3]((2,5,6),(3,7,8),(5,11,13),(6,13,16),(5,11,14),(3,7,9)); lvl=3; h,r-ind=1,1
        [3,3]((6,13,16),(4,9,11),(5,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(4,9,11),(5,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(3,7,9),(4,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,8),(2,5,6),(4,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(6,13,16),(4,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,8),(5,11,13),(4,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,7),(2,5,6),(3,7,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(5,11,13),(2,4,5),(6,13,16)); lvl=3; h,r-ind=1,1
        [3,3]((5,11,13),(6,13,16),(7,15,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(6,13,16),(7,15,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(5,11,13),(7,15,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(1,2,2),(7,15,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,5),(1,2,2),(3,7,8),(5,11,13)); lvl=3; h,r-ind=1,1
        [3,3]((4,9,10),(5,11,13),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,5),(4,9,10),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,8),(4,9,10),(5,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,8),(2,5,5),(4,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(2,5,5),(3,7,8)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,5),(2,5,7),(2,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,5),(2,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(2,6,7),(2,5,6),(2,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((3,8,10),(2,5,6),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,10),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,10),(2,5,7),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,4),(2,6,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(2,6,7),(2,5,6),(2,5,5)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,6),(3,8,9),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(3,8,9),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,5),(1,3,3),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,5),(2,5,6),(3,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,4),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,7),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,10),(1,2,6),(1,3,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,3,10),(1,2,6),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,10),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
```

10.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,4,10)); lvl=0; h,r-ind=10,50
  [5,3]((1,2,4),(1,3,6),(1,4,6),(1,2,3),(1,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,5),(1,4,5),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,4,6),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,5),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,6),(1,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(1,2,3),(1,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(1,1,1),(2,5,5),(1,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,3),(3,7,9),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,2),(3,7,9),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(3,7,9),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,1,1),(2,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(3,7,9),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,5),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,2,3),(3,7,9)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,4,5),(1,3,4),(2,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,8),(1,4,5),(1,3,4)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((2,7,8),(2,7,7),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,7),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(2,7,7),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,8),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,3,3),(3,10,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,5),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,5,5),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,7,7),(1,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(2,7,8),(2,7,7),(1,4,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,4),(2,7,7),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(1,4,4),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,4,4),(2,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(0,1,0),(1,4,4)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,5,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,6),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,10),(0,1,0),(1,4,6)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,0,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,4,10),(1,2,5),(1,2,4),(1,3,6)); lvl=1; h,r-ind=1,2
    [3,3]((1,3,7),(1,2,5),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,7),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,10),(1,3,6),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,10),(1,3,7),(1,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,5),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,4,10),(1,3,6),(1,4,6)); lvl=1; h,r-ind=4,4; optimized-h
```

10.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,5,10)); lvl=0; h,r-ind=10,20
  [3,3]((1,5,10),(1,5,5),(2,5,10)); lvl=1; h,r-ind=25,5; alert-h-inc
    [5,3]((1,5,10),(2,10,15),(2,7,14),(2,7,13),(4,15,25)); lvl=2; h,r-ind=1,1
      [4,3]((2,8,13),(1,4,7),(4,15,25),(3,11,19)); lvl=3; h,r-ind=1,1
        [3,3]((3,11,19),(1,4,7),(5,19,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,13),(1,4,7),(5,19,32)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,25),(2,8,13),(5,19,32)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,25),(3,11,19),(5,19,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,7,13),(3,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(2,7,14),(2,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(1,4,7),(2,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,13),(4,17,27),(1,4,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,10,15),(4,17,27),(1,5,8),(1,4,7)); lvl=3; h,r-ind=1,1
        [3,3]((2,9,14),(1,4,7),(4,18,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(1,4,7),(4,18,29)); lvl=4; h,r-ind=1,1
        [4,3]((2,10,15),(1,5,8),(2,9,14),(4,18,29)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,22),(2,9,14),(4,18,29)); lvl=5; h,r-ind=1,1
          [3,3]((3,14,22),(1,5,8),(4,18,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,15),(3,14,22),(1,5,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,15),(3,14,22),(2,9,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,14),(4,17,27),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,10,17),(1,4,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,8),(1,5,10),(2,10,17),(1,4,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,7),(1,5,9),(3,13,24)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,8),(1,5,10),(1,5,9),(3,13,24)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,5,10),(2,9,17),(1,5,9)); lvl=5; h,r-ind=1,1
          [3,3]((3,13,24),(2,9,17),(1,5,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,8),(3,13,24),(2,9,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,8),(1,5,10),(2,9,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(1,4,8),(3,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,10,17),(1,5,9)); lvl=4; h,r-ind=1,1
    [5,3]((1,3,5),(2,7,11),(1,3,6),(2,7,13),(4,15,25)); lvl=2; h,r-ind=1,1
      [4,3]((2,7,12),(3,11,18),(4,15,25),(3,11,19)); lvl=3; h,r-ind=1,1
        [3,3]((6,22,37),(4,15,25),(3,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,12),(6,22,37),(3,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,19),(6,22,37),(4,15,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,12),(3,11,19),(6,22,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,13),(2,7,12),(3,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,13),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,6),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(2,7,12),(3,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(1,3,5),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,10),(1,3,5),(1,3,6)); lvl=2; h,r-ind=1,1
    [5,3]((1,5,5),(2,7,10),(2,7,11),(2,10,15),(4,15,25)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,6),(2,8,13),(3,11,18),(4,15,25)); lvl=3; h,r-ind=1,1
        [3,3]((2,8,13),(4,15,25),(5,19,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,18),(4,15,25),(5,19,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(3,11,18),(5,19,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(2,8,13),(5,19,31)); lvl=4; h,r-ind=1,1
```

```
    [3,3]((1,4,6),(2,8,13),(4,17,27)); lvl=3; h,r-ind=1,1
    [4,3]((2,10,15),(1,5,7),(1,4,6),(4,17,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(4,18,27),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,14),(4,18,27),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,14),(4,17,27),(1,4,6)); lvl=4; h,r-ind=1,1
      [4,3]((2,10,15),(2,9,14),(1,5,7),(4,18,27)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,21),(2,9,14),(4,18,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(3,14,21),(4,18,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,15),(3,14,21),(2,9,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(2,10,15),(3,14,21)); lvl=5; h,r-ind=1,1
    [3,3]((2,10,13),(1,5,7),(1,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,5),(1,4,5),(2,10,13),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,6),(3,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,6),(3,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,10,13),(1,4,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,5),(1,5,6),(1,4,5),(3,13,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,11),(1,5,6),(3,13,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(2,9,11),(3,13,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,5),(2,9,11),(1,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(1,5,5),(2,9,11)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,11),(3,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,10),(1,4,6),(2,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,10),(1,4,6)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,5),(2,7,10),(2,7,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,6),(2,7,14),(2,7,13)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,5,5),(2,5,10)); lvl=1; h,r-ind=25,5; alert-h-inc
  [5,3]((1,5,5),(2,7,10),(2,5,5),(4,10,15),(2,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(2,5,7),(4,10,15),(3,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(4,10,15),(5,13,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,12),(4,10,15),(5,13,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,12),(5,13,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(5,13,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,9),(3,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,10),(2,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(1,3,4),(2,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,7),(1,5,5),(1,4,5),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,4),(3,11,13),(1,4,5),(1,5,5)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,8,9),(3,11,13),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,5),(2,8,9),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(1,5,5),(2,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(2,8,9),(3,11,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,4),(3,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,7),(1,4,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(3,11,13),(1,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,7),(4,10,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(1,3,4),(2,5,5),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,6),(4,11,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,3),(2,5,5),(2,5,6),(4,11,13)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,5),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,13),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(4,11,13),(3,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,5,5),(3,8,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(4,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(4,10,13),(2,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,7),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
  [5,3]((1,3,5),(1,2,4),(2,4,7),(4,10,15),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,8),(2,4,7),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,8),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,6,9),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(3,7,11),(2,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,8),(3,7,11),(4,10,15),(3,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((6,15,23),(4,10,15),(3,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(6,15,23),(3,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((6,15,23),(3,8,12),(4,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(6,15,23),(3,8,12)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,9),(2,5,8),(3,8,12)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,10),(1,3,5),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,5),(2,7,10),(2,6,9)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(2,3,6),(2,4,7),(2,5,5),(4,10,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,7),(3,7,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(4,10,15),(2,5,7),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(4,10,15),(5,12,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,11),(4,10,15),(5,12,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(5,12,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,11),(1,2,3),(5,12,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(4,10,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(1,2,2),(2,5,5),(4,10,13)); lvl=3; h,r-ind=1,1
      [4,3]((4,9,11),(1,2,2),(2,5,6),(2,5,5)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,8),(2,5,6),(2,5,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(3,7,8),(2,5,5)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((4,9,11),(3,7,8),(2,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(4,9,11),(3,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(4,9,11),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,13),(1,2,3),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(4,9,11),(1,2,2)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,2),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,6),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(2,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,2),(1,2,3),(2,3,3)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,3),(1,1,2),(3,4,6)); lvl=4; h,r-ind=1,1
        [4,3]((1,0,0),(1,1,1),(1,1,2),(3,4,6)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,2,3),(1,1,1),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(1,1,2),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,3),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(1,1,1),(1,2,3)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,6),(2,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,10),(1,5,5)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,5,5)); lvl=1; h,r-ind=5,5; optimized-h
```

10.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,10)); lvl=0; h,r-ind=10,50
  [4,3]((1,0,0),(1,1,2),(2,3,5),(0,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,5),(2,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,3,3),(1,1,1),(1,1,2),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(1,1,2),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(2,3,4),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(2,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,4),(2,3,7),(2,3,5),(0,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,7),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(0,1,0),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,5),(1,2,4),(0,1,0)); lvl=1; h,r-ind=1,1
  [5,3]((1,1,3),(3,4,11),(2,3,7),(1,1,2),(2,3,5)); lvl=1; h,r-ind=1,1
    [4,3]((3,4,10),(3,4,9),(2,3,6),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,16),(2,3,6),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(5,7,16),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,16),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(2,3,7),(5,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,11),(3,4,10),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,11),(3,4,10)); lvl=2; h,r-ind=1,1
    [5,3]((3,4,9),(5,6,14),(1,1,2),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(7,9,19),(4,5,11)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,9),(6,8,17),(7,9,19),(4,5,11)); lvl=3; h,r-ind=1,1
        [3,3]((10,13,28),(7,9,19),(6,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(10,13,28),(6,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,11),(3,4,9),(10,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,11),(10,13,28),(7,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(6,8,17),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,6,14),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(5,6,14),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,8),(7,9,19)); lvl=3; h,r-ind=1,1
      [4,3]((6,8,17),(2,3,6),(3,4,8),(7,9,19)); lvl=3; h,r-ind=1,1
        [3,3]((9,12,25),(2,3,6),(3,4,8)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,19),(9,12,25),(3,4,8)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,17),(7,9,19),(9,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,17),(9,12,25),(2,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,5),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(2,3,5),(3,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(5,6,14),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(3,4,10),(3,4,9),(5,6,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,12),(3,4,9),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,12),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,14),(4,5,12),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(5,6,14),(4,5,12)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [6,3]((1,2,5),(2,3,9),(1,2,4),(3,4,12),(3,4,11),(2,3,7)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((2,3,8),(3,4,11),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(1,2,4),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,8),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(3,4,12),(3,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(2,3,8),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,9),(2,3,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,10),(2,3,9),(3,4,12)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,10),(1,2,5),(2,3,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,3),(3,4,12),(3,4,11)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,10),(1,1,3),(3,4,12)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,10),(1,1,3)); lvl=1; h,r-ind=1,1
```

10.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,5,10)); lvl=0; h,r-ind=10,10
  [5,3]((1,3,5),(1,2,4),(1,2,3),(2,5,5),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(4,9,14),(2,5,7),(2,5,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,9,14),(3,7,10),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,7,10),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,6),(3,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,9,14),(3,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(1,3,3),(2,5,7),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(2,5,6),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,6),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(3,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(4,9,14)); lvl=2; h,r-ind=1,1
    [5,3]((1,2,4),(1,3,5),(1,3,4),(4,9,14),(2,5,7)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,11),(2,5,7),(5,12,19),(4,10,15)); lvl=3; h,r-ind=1,1
        [3,3]((4,10,15),(2,5,7),(7,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,11),(2,5,7),(7,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,19),(3,7,11),(7,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,19),(4,10,15),(7,17,26)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(2,5,8),(5,12,19),(4,10,15)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,8),(5,12,19),(6,15,23)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,15),(5,12,19),(6,15,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,8),(6,15,23)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,15),(1,3,4),(6,15,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,4),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,8),(5,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,4),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(4,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,11),(5,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,14),(3,7,11),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(4,9,14),(3,7,11)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,5),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,5,10),(1,3,5),(1,2,4)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,6),(1,2,3),(2,5,5)); lvl=1; h,r-ind=1,1
    [5,3]((2,5,5),(1,2,2),(1,2,3),(6,10,15),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,10),(6,10,15),(3,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((5,9,12),(4,7,10),(6,11,15),(3,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((6,11,15),(4,7,10),(9,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,7),(4,7,10),(9,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,12),(3,5,7),(9,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,12),(6,11,15),(9,16,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(5,9,12),(3,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(5,9,12),(6,11,15),(2,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((5,9,12),(6,11,15),(7,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(6,11,15),(7,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(7,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(5,9,12),(7,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(1,2,3),(6,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(6,11,15),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,15),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
    [5,3]((2,3,4),(1,1,2),(2,3,5),(6,10,15),(3,5,7)); lvl=2; h,r-ind=1,1
      [5,3]((2,3,4),(6,9,14),(9,14,21),(1,1,2),(7,11,16)); lvl=3; h,r-ind=1,1
        [3,3]((9,14,21),(4,6,9),(7,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(4,6,9),(7,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(9,14,21),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(1,1,2),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(1,1,2),(4,6,9)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,7),(5,8,12),(9,14,21),(7,11,16)); lvl=3; h,r-ind=1,1
```

```
        [3,3]((5,8,12),(12,19,28),(9,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((7,11,16),(12,19,28),(9,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,7),(5,8,12),(12,19,28)); lvl=4; h,r-ind=1,1
        [3,3]((7,11,16),(3,5,7),(12,19,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,7),(7,11,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(6,10,15),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(1,1,2)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,5),(5,8,12),(6,9,14),(9,14,21)); lvl=3; h,r-ind=1,1
        [3,3]((9,14,21),(5,8,12),(11,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(5,8,12),(11,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(2,3,5),(11,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(9,14,21),(11,17,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(6,10,15),(5,8,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(2,3,3),(2,3,4),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,3),(3,5,6),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(3,5,6),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,5,7),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(2,3,4),(1,1,2)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,1),(2,3,3),(2,3,4),(4,5,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(2,3,3),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(4,5,7),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,4),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,1,1),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,6),(2,3,5),(1,2,3),(6,10,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(6,10,15),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(6,10,15),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(2,3,5),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,6),(3,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,5,5)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,2,4),(2,3,6),(1,2,3)); lvl=1; h,r-ind=1,1
```

10.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,7,10)); lvl=0; h,r-ind=10,50
  [4,3]((2,5,5),(1,3,4),(1,4,5),(0,1,0)); lvl=1; h,r-ind=1,1
    [4,3]((0,1,0),(2,7,8),(2,7,7),(1,4,5)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,4,4),(2,7,7),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,4),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(2,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(0,1,0),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,8),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(1,3,3),(2,7,8),(2,7,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,8),(2,7,7),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,8),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,3,4),(3,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(1,3,4),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,5),(1,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,2),(2,5,5),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,7,10),(1,3,4),(1,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((2,4,5),(1,2,2),(2,5,5),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(1,2,2),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,6),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,4),(2,4,5),(1,3,4),(3,8,11)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(3,6,8),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,11),(3,6,8),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(3,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,11),(2,3,4),(3,6,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,10),(1,3,4),(3,8,11)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,7,10),(2,3,4),(3,8,11)); lvl=1; h,r-ind=1,2
    [3,3]((2,5,7),(2,7,10),(3,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(2,3,4),(3,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,5,7),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,5,7),(2,7,10)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,4),(2,4,5),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(5,8,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(1,1,1),(2,4,5),(5,8,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(5,8,10),(3,5,6)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,4,5),(5,8,10),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,1),(2,3,4),(5,8,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,5),(1,1,1),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
```

10.12 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,9,10)); lvl=0; h,r-ind=10,50
  [3,3]((0,1,0),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,9,10),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(2,9,10),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,5),(2,5,5)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((2,9,10),(1,5,5),(2,5,5)); lvl=1; h,r-ind=5,5; optimized-h
```

10.13 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,3,10)); lvl=0; h,r-ind=10,100
  [3,3]((1,1,3),(0,1,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,2)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,10),(1,1,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,10),(1,1,3)); lvl=1; h,r-ind=1,1
```

10.14 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,5,10)); lvl=0; h,r-ind=10,20
  [3,3]((1,0,0),(1,1,2),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,2,3),(3,4,8),(1,1,2),(1,2,2)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,2),(2,3,5),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,1,2),(2,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,10),(0,1,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,10),(1,2,3),(3,4,8)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

10.15 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,6,10)); lvl=0; h,r-ind=10,50
  [3,3]((1,2,3),(1,0,0),(2,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,10),(1,2,3),(2,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(2,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(2,3,4),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,10),(0,1,0),(1,2,3)); lvl=1; h,r-ind=1,1
```

10.16 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,8,10)); lvl=0; h,r-ind=10,50
  [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((3,7,8),(3,8,9),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,3),(3,8,9),(4,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,8),(3,8,9),(4,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(3,7,8),(4,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(4,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((3,8,10),(3,8,9),(1,3,3)); lvl=1; h,r-ind=1,1
```

```
  [4,3]((3,8,10),(2,4,5),(3,7,8),(3,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(3,6,7),(7,15,18)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,6),(3,7,8),(3,6,7),(7,15,18)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,6,7),(5,11,13),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(5,11,13),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,18),(2,5,6),(5,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,18),(3,6,7),(5,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,4,5),(7,15,18)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,10),(2,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((3,8,10),(3,7,8),(3,8,9)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,8,10),(0,1,0),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((3,7,8),(3,6,7),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(3,6,7),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,8),(3,6,7),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(3,7,8),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,1,1),(4,8,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,4,5),(3,6,7),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,6),(2,4,5),(3,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(1,1,1),(3,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,5,6),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
```

10.17 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,9,10)); lvl=0; h,r-ind=10,100
  [3,3]((3,9,10),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,9,10),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,9,10),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,9,10),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
```

10.18 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,5,10)); lvl=0; h,r-ind=10,10
  [3,3]((1,1,2),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,2),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(2,3,5),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(4,5,10),(2,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,5),(1,2,2)); lvl=1; h,r-ind=1,1
```

10.19 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,9,10)); lvl=0; h,r-ind=10,50
  [3,3]((4,9,10),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((4,9,10),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((4,9,10),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((4,9,10),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
```

10.20 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,6,10)); lvl=0; h,r-ind=10,10
  [3,3]((1,0,0),(3,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((5,7,10),(0,1,0),(3,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((3,3,4),(6,7,9),(10,12,15),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,9),(10,12,15),(7,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(10,12,15),(7,8,10)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((3,3,4),(6,7,9),(7,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(3,3,4),(7,8,10)); lvl=3; h,r-ind=1,1
  [5,3]((0,1,0),(3,5,6),(3,4,5),(10,12,15),(1,1,1)); lvl=2; h,r-ind=1,1
    [5,3]((1,2,2),(6,8,9),(4,6,7),(8,11,13),(9,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,13),(9,12,14),(5,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,9),(9,12,14),(5,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(6,8,9),(5,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,7),(8,11,13),(5,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(4,6,7),(5,7,8)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,5),(4,5,6),(8,11,13),(9,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((12,16,19),(9,12,14),(4,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,5),(12,16,19),(4,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((8,11,13),(12,16,19),(9,12,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,5),(8,11,13),(12,16,19)); lvl=4; h,r-ind=1,1
    [4,3]((6,8,9),(1,1,1),(4,5,6),(9,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,15),(4,5,6),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,9),(10,13,15),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((9,12,14),(10,13,15),(4,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,9),(9,12,14),(10,13,15)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,5),(4,5,6),(10,12,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(4,5,6),(10,12,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(0,1,0),(6,8,9),(1,1,1)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,3,3),(1,1,1),(0,1,0)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(0,1,0)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,9),(2,3,3),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(6,8,9),(2,3,3)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,5),(3,5,6),(4,6,7),(8,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,12),(3,5,6),(4,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((8,11,13),(7,10,12),(4,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,5),(8,11,13),(7,10,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,5),(7,10,12),(3,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(3,5,6),(4,6,7)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,4),(3,5,6),(3,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,7),(3,3,4),(6,7,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((2,3,4),(3,4,5),(4,5,7),(6,7,9),(10,12,15)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,9),(9,11,14),(10,12,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(9,11,14),(10,12,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(2,3,4),(13,17,22)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,8),(8,10,13),(6,7,9),(9,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,14),(8,10,13),(14,17,22)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,8),(8,10,13),(14,17,22)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,9),(5,6,8),(14,17,22)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,9),(9,11,14),(14,17,22)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,5),(13,17,22),(8,10,13),(9,11,14)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((11,14,18),(13,17,22),(8,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,14),(11,14,18),(8,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,5),(9,11,14),(11,14,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,5),(11,14,18),(13,17,22)); lvl=4; h,r-ind=1,1
    [5,3]((2,3,4),(4,5,7),(5,6,8),(13,17,22),(8,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((15,19,25),(5,6,8),(8,10,13)); lvl=4; h,r-ind=1,1
      [4,3]((17,22,29),(10,13,17),(15,19,25),(8,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((25,32,42),(8,10,13),(10,13,17)); lvl=5; h,r-ind=1,1
        [3,3]((17,22,29),(25,32,42),(10,13,17)); lvl=5; h,r-ind=1,1
        [3,3]((15,19,25),(25,32,42),(8,10,13)); lvl=5; h,r-ind=1,1
        [3,3]((17,22,29),(15,19,25),(25,32,42)); lvl=5; h,r-ind=1,1
      [3,3]((13,17,22),(10,13,17),(8,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(13,17,22),(10,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(17,22,29),(10,13,17)); lvl=4; h,r-ind=1,1
      [4,3]((7,9,12),(17,22,29),(15,19,25),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((17,22,29),(15,19,25),(22,28,37)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,8),(15,19,25),(22,28,37)); lvl=5; h,r-ind=1,1
        [3,3]((7,9,12),(17,22,29),(22,28,37)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,8),(7,9,12),(22,28,37)); lvl=5; h,r-ind=1,1
      [3,3]((7,9,12),(4,5,7),(5,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(7,9,12),(4,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(7,9,12),(17,22,29)); lvl=4; h,r-ind=1,1
  [3,3]((5,7,10),(2,3,4),(4,5,7)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(3,3,4),(3,3,5)); lvl=1; h,r-ind=3,3; optimized-h
[4,3]((5,7,10),(5,6,10),(3,3,4),(3,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((5,6,10),(7,9,14),(3,3,5),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((9,10,16),(2,2,3),(3,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,10),(4,5,8),(9,10,16),(3,3,5)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,8),(7,8,13),(9,10,16)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,5),(7,8,13),(9,10,16)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,10),(3,3,5),(7,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,10),(4,5,8),(7,8,13)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,8),(9,10,16),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,14),(4,5,8),(2,2,3)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,6),(7,9,14),(2,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,6),(4,5,7),(2,2,3)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((4,5,7),(3,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,10),(3,4,6),(4,5,7)); lvl=2; h,r-ind=1,1
```

10.21 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,8,10)); lvl=0; h,r-ind=10,10
  [3,3]((1,2,2),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(4,7,8),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((5,8,10),(4,7,8),(3,4,5),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(3,5,6),(7,10,12)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,5),(5,8,10),(3,5,6),(7,10,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,9,11),(5,8,10),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,12),(6,9,11),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(7,10,12),(6,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(6,9,11),(5,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(1,1,1),(7,10,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(4,7,8),(3,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,4,5),(1,1,1)); lvl=1; h,r-ind=1,1
```

10.22 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,9,10)); lvl=0; h,r-ind=10,20
  [3,3]((5,9,10),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(5,9,10),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
```

10.23 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,9,10)); lvl=0; h,r-ind=10,50
  [3,3]((3,4,4),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,5),(3,4,4),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((6,9,10),(3,5,5),(3,4,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((6,9,10),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(6,9,10),(1,1,1)); lvl=1; h,r-ind=1,1
```

10.24 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,9,10)); lvl=0; h,r-ind=10,50
  [3,3]((8,9,10),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((8,9,10),(4,5,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,5,5),(1,1,1)); lvl=1; h,r-ind=1,1
```

10.25 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,9,10)); lvl=0; h,r-ind=10,100
  [3,3]((9,9,10),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(9,9,10),(1,1,1)); lvl=1; h,r-ind=1,1
```

11 H-index = 11

11.0 Classification

```
[3,3]((1,0,0),(0,1,0),(0,1,11))
  [3,3]((1,0,0),(0,1,0),(0,1,11))
  [3,3]((1,0,0),(0,1,0),(1,0,11))
  [3,3]((1,0,0),(1,11,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,2,11))
  [3,3]((1,0,0),(0,1,0),(0,2,11))
  [3,3]((1,0,0),(0,1,0),(0,6,11))
  [3,3]((1,0,0),(0,1,0),(2,0,11))
  [3,3]((1,0,0),(0,1,0),(6,0,11))
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  [3,3]((1,0,0),(0,1,0),(4,0,11))
  [3,3]((1,0,0),(3,11,0),(0,0,1))
  [3,3]((1,0,0),(4,11,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,5,11))
  [3,3]((1,0,0),(0,1,0),(0,5,11))
  [3,3]((1,0,0),(0,1,0),(0,9,11))
  [3,3]((1,0,0),(0,1,0),(5,0,11))
  [3,3]((1,0,0),(0,1,0),(9,0,11))
  [3,3]((1,0,0),(5,11,0),(0,0,1))
  [3,3]((1,0,0),(9,11,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,7,11))
  [3,3]((1,0,0),(0,1,0),(0,7,11))
  [3,3]((1,0,0),(0,1,0),(0,8,11))
  [3,3]((1,0,0),(0,1,0),(7,0,11))
  [3,3]((1,0,0),(0,1,0),(8,0,11))
  [3,3]((1,0,0),(7,11,0),(0,0,1))
  [3,3]((1,0,0),(8,11,0),(0,0,1))
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  [3,3]((1,0,0),(0,1,0),(0,10,11))
  [3,3]((1,0,0),(0,1,0),(10,0,11))
  [3,3]((1,0,0),(10,11,0),(0,0,1))
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  [3,3]((1,0,0),(0,1,0),(4,3,11))
  [3,3]((1,0,0),(0,1,0),(4,6,11))
  [3,3]((1,0,0),(0,1,0),(6,4,11))
```

```
[3,3]((1,0,0),(0,1,0),(2,4,11))
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  [3,3]((1,0,0),(0,1,0),(4,2,11))
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  [3,3]((1,0,0),(0,1,0),(8,8,11))
  [3,3]((1,0,0),(0,1,0),(10,7,11))
[3,3]((1,0,0),(0,1,0),(10,10,11))
  [3,3]((1,0,0),(0,1,0),(10,10,11))
```

11.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,11)); lvl=0; h,r-ind=11,11
  [3,3]((1,0,0),(0,2,11),(0,1,0)); lvl=1; h,r-ind=11,11
    [3,3]((1,0,0),(0,1,5),(0,2,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,3),(0,1,5)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,0,0),(0,1,0),(0,1,3)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,11),(0,2,11)); lvl=1; h,r-ind=11,11
    [3,3]((1,0,0),(0,1,11),(0,1,8)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,0,0),(0,1,6),(0,1,8)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,0,0),(0,1,6),(0,2,11)); lvl=2; h,r-ind=1,1
```

11.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,2,11)); lvl=0; h,r-ind=11,11
  [3,3]((1,0,0),(0,1,5),(0,2,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,3),(0,1,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,1,0),(0,1,3)); lvl=1; h,r-ind=3,3; optimized-h
```

11.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,3,11)); lvl=0; h,r-ind=11,11
  [3,3]((1,0,0),(0,3,10),(0,1,2)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,0,0),(0,1,0),(0,1,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,3,11),(0,3,10)); lvl=1; h,r-ind=3,3; optimized-h
```

11.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,5,11)); lvl=0; h,r-ind=11,11
  [3,3]((1,0,0),(0,1,2),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,5,11),(0,1,2)); lvl=1; h,r-ind=1,1
```

11.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,7,11)); lvl=0; h,r-ind=11,11
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,3,4),(0,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,3,4),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,2,3),(0,7,11)); lvl=1; h,r-ind=1,1
```

11.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,10,11)); lvl=0; h,r-ind=11,11
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,10,11),(0,1,1)); lvl=1; h,r-ind=1,1
```

11.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,11)); lvl=0; h,r-ind=11,121
  [3,3]((2,2,11),(1,0,0),(1,1,10)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((1,1,11),(1,0,0),(1,1,10)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,11),(1,1,10)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((1,1,11),(0,1,0),(1,1,10)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,11),(1,0,0)); lvl=1; h,r-ind=11,121
    [3,3]((1,1,5),(0,1,0),(1,1,3)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,0,0),(0,1,0),(1,1,3)); lvl=2; h,r-ind=3,9; optimized-h
    [3,3]((1,0,0),(1,1,5),(1,1,3)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((2,2,11),(1,0,0),(1,1,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,11),(1,1,5),(0,1,0)); lvl=2; h,r-ind=1,1
```

11.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,11)); lvl=0; h,r-ind=11,121
  [3,3]((1,1,3),(1,1,5),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,11),(1,1,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,4,11),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,5),(1,1,3),(2,3,7),(2,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,3),(2,2,5),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,2,5),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,1,3),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(1,2,5),(3,4,10)); lvl=3; h,r-ind=1,1
    [5,3]((1,2,4),(1,0,0),(1,2,3),(2,3,7),(2,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,2),(1,0,0)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,5),(1,1,2),(1,0,0)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,7),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,2,5),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,2,3)); lvl=2; h,r-ind=3,9; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,5),(1,2,4),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,5),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(2,4,11),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,5),(2,4,11)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,9),(2,4,11),(1,1,3),(2,3,15),(1,1,5)); lvl=1; h,r-ind=1,1
    [4,3]((4,6,23),(2,3,14),(1,1,4),(1,1,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,4),(1,1,5),(5,6,26)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,14),(4,6,25),(1,1,5),(5,6,26)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,1,5),(7,9,40),(3,4,17),(5,6,26)); lvl=4; h,r-ind=1,3
          [3,3]((3,4,17),(7,9,40),(4,5,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(7,9,40),(4,5,22)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,26),(3,4,17),(4,5,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(5,6,26),(4,5,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,13),(7,9,40),(3,4,17)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,1,5),(2,3,14),(2,3,13),(7,9,40)); lvl=4; h,r-ind=1,3
          [3,3]((2,3,13),(3,4,18),(2,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(3,4,18),(2,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((7,9,40),(2,3,13),(3,4,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(7,9,40),(3,4,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,13),(3,4,17),(4,6,25)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,12),(4,6,25),(1,1,4),(5,6,26)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,4),(5,6,26),(3,4,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(6,8,33),(3,4,17)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,12),(4,6,25),(6,8,33),(3,4,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,7,29),(6,8,33),(3,4,17)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,25),(5,7,29),(3,4,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,12),(4,6,25),(5,7,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,12),(5,7,29),(6,8,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(2,3,12),(6,8,33)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,23),(2,3,12),(1,1,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,14),(2,3,15),(1,1,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,9),(2,3,14),(2,3,15)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,9),(1,2,7),(4,6,23),(2,3,14)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,8),(1,2,7),(2,3,12),(4,6,25)); lvl=3; h,r-ind=1,1
        [3,3]((3,5,20),(2,3,12),(1,2,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,8),(3,5,20),(1,2,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,25),(1,2,8),(3,5,20)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,25),(3,5,20),(2,3,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,8),(1,2,9),(2,3,14),(4,6,25)); lvl=3; h,r-ind=1,1
        [4,3]((4,7,30),(1,2,9),(2,3,13),(2,3,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,22),(2,3,14),(2,3,13)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,30),(3,5,22),(2,3,13)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,22),(1,2,9),(2,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,30),(3,5,22),(1,2,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,8),(4,7,30),(2,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,25),(1,2,8),(2,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,8),(4,7,30),(1,2,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(4,6,23),(2,3,12)); lvl=3; h,r-ind=1,1
    [5,3]((1,2,7),(1,2,6),(4,6,23),(1,1,3),(1,1,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,14),(1,1,4),(1,1,3)); lvl=3; h,r-ind=1,1
      [5,3]((1,2,6),(3,4,14),(4,6,21),(3,5,17),(1,1,3)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,10),(4,6,21),(3,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,3,10),(3,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(1,2,6),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,14),(2,3,10),(4,6,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,14),(1,1,3),(2,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(1,2,6),(3,5,17)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,14),(4,6,21),(2,3,11),(1,1,4)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,11),(4,6,21),(5,7,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,14),(4,6,21),(5,7,25)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((1,1,4),(3,4,14),(5,7,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(2,3,11),(5,7,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,11),(4,6,23),(1,1,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(2,3,11),(4,6,23)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,7),(4,6,21),(3,5,17),(2,3,11)); lvl=3; h,r-ind=1,1
        [3,3]((3,5,17),(4,6,21),(5,8,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(4,6,21),(5,8,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(2,3,11),(5,8,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(3,5,17),(5,8,28)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,11),(1,2,6),(1,1,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,11),(2,3,15),(1,1,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,11),(1,2,9),(2,3,15)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,9),(2,4,11)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,2,11),(0,1,0),(1,2,9)); lvl=1; h,r-ind=2,2; optimized-h
```

11.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,11)); lvl=0; h,r-ind=11,121
  [4,3]((1,0,0),(1,2,4),(1,2,6),(2,3,10)); lvl=1; h,r-ind=2,2
    [3,3]((1,1,3),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(1,1,2),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,2),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,1,3),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(1,1,3),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,10),(1,1,3)); lvl=2; h,r-ind=1,1
  [5,3]((2,5,15),(1,2,7),(2,5,17),(1,2,6),(2,3,10)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,7),(3,7,23),(5,11,36),(2,5,17)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,36),(4,9,30),(3,7,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,17),(4,9,30),(3,7,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(2,5,17),(4,9,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(5,11,36),(4,9,30)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,16),(3,7,23),(2,5,17)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,7),(5,11,36),(6,13,42),(2,4,13)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,36),(6,13,42),(7,15,49)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,13),(6,13,42),(7,15,49)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(2,4,13),(7,15,49)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(5,11,36),(7,15,49)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(1,2,7),(2,4,13)); lvl=2; h,r-ind=1,1
    [4,3]((5,11,35),(1,2,6),(6,13,42),(2,4,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,13),(1,2,6),(7,15,48)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,35),(1,2,6),(7,15,48)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,42),(5,11,35),(7,15,48)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,42),(2,4,13),(7,15,48)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(1,2,6),(2,4,13)); lvl=2; h,r-ind=1,1
    [6,3]((3,7,22),(5,11,35),(2,5,16),(3,7,23),(5,11,36),(6,13,42)); lvl=2; h,r-ind=1,1
      [3,3]((6,13,42),(4,9,29),(5,11,35)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,22),(4,9,29),(5,11,35)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,22),(2,5,16),(4,9,29)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,42),(5,11,36),(4,9,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,23),(5,11,36),(4,9,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,16),(3,7,23),(4,9,29)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,15),(3,7,22),(5,11,35),(1,2,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,22),(5,11,35),(4,9,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(5,11,35),(4,9,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,15),(3,7,22),(4,9,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(2,5,15),(4,9,28)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,15),(3,7,22),(2,5,16)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,11),(1,2,7),(2,5,17)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,11),(1,3,8),(2,5,15),(2,5,17)); lvl=1; h,r-ind=1,1
    [4,3]((2,6,19),(2,5,16),(1,3,8),(2,5,15)); lvl=2; h,r-ind=1,1
      [3,3]((5,13,40),(2,5,16),(2,5,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,8),(5,13,40),(1,3,9),(2,5,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,9),(5,13,40),(3,8,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,15),(5,13,40),(3,8,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(1,3,9),(3,8,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,15),(1,3,8),(3,8,24)); lvl=4; h,r-ind=1,1
      [3,3]((5,13,40),(1,3,9),(2,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,19),(1,3,9),(2,5,16)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,11),(2,6,19),(2,5,16),(2,5,17)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,10),(2,5,16),(5,13,43)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,17),(2,5,16),(5,13,43)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,17),(1,3,11),(1,3,10),(5,13,43)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,27),(1,3,11),(1,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,43),(3,8,27),(1,3,10)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,5,17),(5,13,43),(3,8,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,17),(3,8,27),(1,3,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,10),(2,6,19),(2,5,16)); lvl=3; h,r-ind=1,1
[3,3]((1,2,7),(1,0,0),(2,3,10)); lvl=1; h,r-ind=1,1
[3,3]((1,3,11),(1,2,7),(1,0,0)); lvl=1; h,r-ind=1,1
[5,3]((1,3,8),(2,5,15),(1,2,4),(2,6,11),(1,2,6)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,14),(1,2,6),(2,5,15)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,8),(2,5,14),(2,5,15)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,14),(2,5,12),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(1,2,5),(4,9,24)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,13),(2,5,12),(1,2,5),(4,9,24)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,7,18),(1,2,5),(2,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(3,7,18),(2,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,24),(3,7,18),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(4,9,24),(3,7,18)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,14),(2,5,13),(1,2,6),(4,9,24)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,13),(4,9,24),(3,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(4,9,24),(3,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,14),(2,5,13),(3,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,5,14),(3,7,19)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,8),(2,6,13),(2,5,14),(2,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(2,5,13),(2,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(2,6,13),(2,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,7),(1,3,8),(2,5,14),(2,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(2,5,14),(3,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(2,5,14),(3,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,8),(3,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(1,3,7),(3,8,21)); lvl=4; h,r-ind=1,1
  [5,3]((1,3,6),(2,6,13),(2,5,12),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,11),(5,13,29),(1,2,5),(4,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,23),(5,13,29),(6,15,34)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(5,13,29),(6,15,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,11),(6,15,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(4,10,23),(6,15,34)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,12),(1,2,5),(4,10,23)); lvl=3; h,r-ind=1,1
    [5,3]((2,6,13),(2,5,12),(5,13,29),(4,11,24),(4,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,18),(4,10,23),(2,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(3,8,18),(2,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,18),(4,10,23),(5,13,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,18),(4,11,24),(5,13,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(3,8,18),(4,11,24)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,6),(2,5,11),(5,13,29),(4,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(5,13,29),(6,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,24),(5,13,29),(6,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(4,11,24),(6,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,11),(6,16,35)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,13),(1,3,6),(4,11,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,11),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,2,4),(2,5,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,6),(1,2,4),(2,6,11)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(1,0,0),(1,2,4),(2,6,11)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,5),(1,1,2),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,2),(2,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,1,2),(2,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,3),(2,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,5),(2,4,7)); lvl=3; h,r-ind=1,1
  [3,3]((2,6,11),(1,3,5),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,5),(1,3,3),(1,2,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,3,5),(1,3,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,6,11),(0,1,0),(1,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,3),(1,0,0),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(1,1,2),(4,6,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,1,2),(5,6,9),(2,3,4),(4,6,9)); lvl=4; h,r-ind=1,3
        [3,3]((2,3,4),(3,4,6),(5,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(3,4,6),(5,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,9),(1,1,2),(3,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,9),(2,3,4),(3,4,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,1),(5,6,9),(2,3,4)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((1,1,1),(2,3,3),(2,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,2),(1,1,1),(5,6,9)); lvl=4; h,r-ind=1,3
        [3,3]((1,1,2),(2,2,3),(5,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(2,2,3),(5,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,2),(4,6,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(1,2,3),(2,3,3),(4,6,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,2,3),(5,9,12),(2,3,4),(4,6,9)); lvl=4; h,r-ind=1,3
        [3,3]((5,9,12),(3,5,7),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,9),(3,5,7),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(5,9,12),(3,5,7)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((4,6,9),(1,2,3),(3,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(5,9,12),(2,3,4)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,2,2),(2,3,3),(2,3,4)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,3),(1,3,3),(1,2,2),(5,9,12)); lvl=4; h,r-ind=1,3
          [3,3]((2,4,5),(1,3,3),(1,2,2)); lvl=5; h,r-ind=1,1
          [3,3]((5,9,12),(2,4,5),(1,2,2)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(5,9,12),(2,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(2,4,5),(1,3,3)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,0,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,3,8),(0,1,0),(2,6,11)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,3,11),(1,3,8),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
```

11.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,4,11)); lvl=0; h,r-ind=11,121
  [3,3]((1,0,0),(1,2,5),(1,3,8)); lvl=1; h,r-ind=1,1
  [5,3]((2,7,18),(2,7,14),(1,3,6),(1,2,5),(1,3,8)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,7),(1,3,6),(2,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(2,7,16),(2,7,14)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,7,18),(1,3,7),(2,7,16)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,7,18),(1,3,7),(1,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(1,3,6),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(1,3,8),(1,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,11),(2,7,18),(1,3,8)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,11),(1,4,7),(2,7,18),(2,7,14)); lvl=1; h,r-ind=4,1
    [4,3]((1,4,9),(1,4,7),(2,7,16),(2,7,14)); lvl=2; h,r-ind=2,1
      [4,3]((1,4,8),(1,4,7),(2,7,15),(2,7,14)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,15),(2,7,14),(3,11,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,7,14),(3,11,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(1,4,7),(3,11,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(2,7,15),(3,11,22)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,9),(1,4,8),(2,7,15),(2,7,16)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,8),(2,7,15),(3,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,16),(2,7,15),(3,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(1,4,8),(3,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,16),(1,4,9),(3,11,24)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,11),(1,4,9),(2,7,18),(2,7,16)); lvl=2; h,r-ind=2,1
      [4,3]((1,4,10),(1,4,9),(2,7,17),(2,7,16)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,17),(2,7,16),(3,11,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(2,7,16),(3,11,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(1,4,9),(3,11,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(2,7,17),(3,11,26)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,11),(1,4,10),(2,7,17),(2,7,18)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,10),(2,7,17),(3,11,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,18),(2,7,17),(3,11,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,11),(1,4,10),(3,11,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,18),(1,4,11),(3,11,28)); lvl=4; h,r-ind=1,1
  [5,3]((2,8,11),(2,6,9),(1,4,7),(2,7,14),(1,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,14),(1,4,7),(2,7,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,6),(4,14,23),(1,4,7),(2,7,13)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,7),(4,15,25),(2,7,12),(2,7,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,19),(4,15,25),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,13),(3,11,19),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,7,13),(3,11,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(3,11,19),(4,15,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,4,7),(4,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(4,15,25),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(4,14,23),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(2,7,14),(2,7,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(4,14,23),(1,3,6),(2,7,13)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,6),(4,13,23),(2,7,12),(2,7,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,13,23),(3,10,18),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,13),(3,10,18),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(2,7,13),(3,10,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(4,13,23),(3,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,6),(4,13,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(4,13,23),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(4,14,23),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,3,5),(4,14,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,10),(1,4,6),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,10),(2,6,9),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,10),(2,8,11),(1,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,11),(1,0,0),(1,3,8)); lvl=1; h,r-ind=1,1
  [4,3]((2,6,9),(1,3,6),(1,0,0),(1,2,5)); lvl=1; h,r-ind=3,3
    [3,3]((1,2,5),(2,3,6),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((3,6,11),(4,7,13),(2,3,6),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,13),(2,3,6),(5,9,17)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,2,4),(2,3,6),(5,9,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,11),(4,7,13),(5,9,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,6,11),(5,9,17)); lvl=3; h,r-ind=1,1
    [5,3]((1,2,3),(3,6,11),(1,3,5),(4,7,13),(3,5,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,3),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(1,2,3),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,13),(3,5,9),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,11),(1,3,5),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,11),(4,7,13),(2,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,6,9),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(1,2,5),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((3,6,11),(1,3,5),(1,3,6),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,6),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,6),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,11),(1,2,4),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,11),(1,3,5),(2,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((4,7,13),(3,5,9),(1,1,2),(2,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,15),(1,1,2),(3,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,13),(5,8,15),(3,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(5,8,15),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,13),(2,3,6),(5,8,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,3),(3,5,9),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,9),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,5,9),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,2),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,2,3),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(1,2,5)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,8,11),(2,6,9),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,7,9),(1,2,3),(2,7,10),(2,6,9)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,4),(1,2,3),(2,6,9),(5,16,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,9),(3,9,13),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,9,13),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,23),(1,3,4),(3,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,23),(2,6,9),(3,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,10),(2,6,9),(5,16,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(1,3,4),(5,16,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(2,7,9),(1,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(2,7,9),(2,8,11),(2,7,10)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,15),(2,7,10),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,11,15),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,8,11),(3,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(3,11,15),(2,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(2,8,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(1,2,2),(2,7,9),(1,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((3,8,9),(1,3,4),(1,2,2),(1,2,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,2),(1,2,3),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,2,3),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(1,2,2),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,9),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(3,8,9),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,3,4),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,8,9),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(1,0,0),(1,2,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((0,1,0),(1,4,5),(1,3,3),(2,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,9),(3,11,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(3,11,12),(2,7,9),(3,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,8),(3,11,13),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,9),(1,3,3),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,9),(2,7,8),(3,11,13)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,12),(1,4,5),(1,4,4),(3,11,13)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,4),(1,4,5),(4,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,13),(1,4,5),(4,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,12),(1,4,4),(4,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,13),(3,11,12),(4,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(3,11,12),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,5),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,8,11),(1,4,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,4,11),(0,1,0),(1,4,7)); lvl=1; h,r-ind=4,4; optimized-h
```

11.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,5,11)); lvl=0; h,r-ind=11,121
```

```
[5,3]((1,1,2),(1,5,6),(2,10,11),(1,3,6),(2,2,3)); lvl=1; h,r-ind=2,1
  [4,3]((1,3,4),(1,2,3),(2,6,7),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(6,14,19),(2,4,5),(2,2,3)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,2,3),(4,8,11),(6,14,19),(4,9,12)); lvl=4; h,r-ind=1,2
        [3,3]((4,9,12),(4,8,11),(5,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(4,8,11),(5,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((6,14,19),(4,9,12),(5,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(6,14,19),(5,11,15)); lvl=5; h,r-ind=1,1
      [3,3]((4,8,11),(2,4,5),(4,9,12)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((4,8,11),(2,3,4),(2,4,5)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,2,3),(4,8,11),(2,3,4),(2,2,3)); lvl=4; h,r-ind=1,2
        [3,3]((3,5,7),(4,8,11),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,3),(3,5,7),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(2,2,3),(3,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(3,5,7),(4,8,11)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,4),(1,2,3),(6,14,19)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,7),(1,3,4),(6,14,19),(2,4,5)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,3,4),(4,10,13),(4,9,12),(6,14,19)); lvl=4; h,r-ind=1,2
        [3,3]((4,9,12),(5,12,16),(4,10,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(5,12,16),(4,10,13)); lvl=5; h,r-ind=1,1
        [3,3]((6,14,19),(4,9,12),(5,12,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(6,14,19),(5,12,16)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,6),(2,6,7),(1,3,4),(4,10,13)); lvl=4; h,r-ind=1,2
        [3,3]((2,6,7),(3,8,10),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,13),(3,8,10),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,6),(4,10,13),(3,8,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,6),(2,6,7),(3,8,10)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,5),(4,10,13),(4,9,12)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((2,4,5),(2,5,6),(4,10,13)); lvl=4; h,r-ind=2,2; optimized-h
  [3,3]((1,2,3),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,8),(1,2,4),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,1,2),(2,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,2),(2,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(1,2,3),(2,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(1,2,4),(2,4,7)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,4),(2,5,8),(2,6,9),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(2,5,8),(3,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,8),(3,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,9),(3,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,4),(3,8,12)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,4),(2,6,9),(1,4,5),(2,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(2,7,10),(3,10,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,10),(3,10,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,5),(3,10,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,9),(3,10,14)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,8),(2,6,9),(1,2,4),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,6),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(4,10,17),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,8),(2,6,9),(4,10,17),(1,3,5)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,6,9),(3,8,13),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,17),(3,8,13),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(4,10,17),(3,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(2,6,9),(3,8,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,8),(4,10,17)); lvl=3; h,r-ind=1,1
  [4,3]((2,6,9),(1,4,6),(2,7,10),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,10),(4,14,21),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(4,14,21),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,6),(1,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,9),(1,3,5),(2,7,10),(4,14,21)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,10),(4,14,21),(3,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(4,14,21),(3,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(1,3,5),(3,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(2,7,10),(3,10,15)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,6),(1,4,5),(1,4,6),(2,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,10),(2,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,10),(2,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,5),(2,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,5,6),(2,8,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,4),(1,4,5),(2,10,11),(2,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(6,22,27),(2,10,11),(2,8,9)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [3,3]((4,16,19),(4,15,18),(2,8,9)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((2,9,10),(4,16,19),(2,8,9)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,4,5),(2,10,11),(2,9,10),(4,16,19)); lvl=4; h,r-ind=1,2
        [3,3]((3,13,15),(2,9,10),(2,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(3,13,15),(2,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((4,16,19),(1,4,5),(3,13,15)); lvl=5; h,r-ind=1,1
        [3,3]((4,16,19),(3,13,15),(2,9,10)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,5),(4,16,19),(6,22,27),(4,15,18)); lvl=4; h,r-ind=1,2
        [3,3]((5,19,23),(4,16,19),(4,15,18)); lvl=5; h,r-ind=1,1
        [3,3]((6,22,27),(5,19,23),(4,15,18)); lvl=5; h,r-ind=1,1
```

```
        [3,3]((1,4,5),(6,22,27),(5,19,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(5,19,23),(4,16,19)); lvl=5; h,r-ind=1,1
    [4,3]((2,6,7),(1,3,4),(6,22,27),(2,8,9)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,3,4),(4,15,18),(6,22,27),(4,14,17)); lvl=4; h,r-ind=1,2
        [3,3]((4,15,18),(6,22,27),(5,18,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(6,22,27),(5,18,22)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,17),(4,15,18),(5,18,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(4,14,17),(5,18,22)); lvl=5; h,r-ind=1,1
      [4,3]((2,7,8),(2,6,7),(1,3,4),(4,14,17)); lvl=4; h,r-ind=1,2
        [3,3]((1,3,4),(3,10,12),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,8),(3,10,12),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,17),(1,3,4),(3,10,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,8),(4,14,17),(3,10,12)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,9),(4,15,18),(4,14,17)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((2,8,9),(2,7,8),(4,14,17)); lvl=4; h,r-ind=2,2; optimized-h
    [3,3]((1,3,4),(1,4,5),(6,22,27)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,6),(1,4,5),(2,10,11)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
[3,3]((1,5,11),(1,1,2),(1,3,6)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((1,0,0),(1,5,11),(1,1,2)); lvl=1; h,r-ind=1,1
[4,3]((1,0,0),(0,1,0),(2,10,11),(2,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((2,2,3),(2,6,7),(1,3,3),(1,1,1)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((2,6,7),(2,4,5),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [4,3]((2,4,5),(2,5,6),(1,2,2),(4,10,11)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,8),(2,5,6),(4,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,8),(1,2,2),(4,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,8),(1,2,2)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,8),(2,5,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(4,10,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,3),(2,6,7),(2,5,6),(4,10,11)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,7),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,11),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(4,10,11),(3,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=5; h,r-ind=1,1
    [4,3]((1,1,1),(2,2,3),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(4,6,7),(2,4,5),(2,3,4)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,6),(4,6,7),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(3,5,6),(4,6,7)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,1),(4,6,7),(2,2,3),(2,3,4)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(2,3,4),(4,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(4,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,2),(4,6,7)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,1,1)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,5),(2,10,11),(2,6,7),(1,3,3)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((1,4,4),(1,3,3),(2,8,9),(2,6,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(4,14,15),(2,6,7),(2,7,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,14,15),(3,10,11),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,7),(3,10,11),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(4,14,15),(3,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,7),(1,3,3),(3,10,11)); lvl=5; h,r-ind=1,1
      [4,3]((2,8,9),(1,4,4),(4,14,15),(2,7,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,12),(1,4,4),(4,14,15)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,12),(2,7,8),(4,14,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,9),(3,11,12),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,9),(3,11,12),(1,4,4)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(4,14,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,5),(1,4,4),(2,10,11),(2,8,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,4),(4,18,19),(2,8,9),(2,9,10)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,18,19),(2,9,10),(3,13,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,9),(2,9,10),(3,13,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(2,8,9),(3,13,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(4,18,19),(3,13,14)); lvl=5; h,r-ind=1,1
      [4,3]((2,10,11),(1,5,5),(4,18,19),(2,9,10)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,15),(1,5,5),(4,18,19)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,15),(2,9,10),(4,18,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,11),(3,14,15),(2,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,11),(3,14,15),(1,5,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,5),(1,4,4),(4,18,19)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,5),(1,3,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,5,5),(2,10,11)); lvl=2; h,r-ind=1,1
[3,3]((1,5,11),(1,5,6),(1,3,6)); lvl=1; h,r-ind=10,10; optimized-h
[3,3]((0,1,0),(1,5,6),(2,10,11)); lvl=1; h,r-ind=1,1
[3,3]((1,5,11),(0,1,0),(1,5,6)); lvl=1; h,r-ind=5,5; optimized-h
```

11.12 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,2,11)); lvl=0; h,r-ind=11,121
  [3,3]((1,1,3),(1,0,0),(1,1,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,2,11),(1,0,0),(1,1,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,3),(1,1,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,2,11),(0,1,0),(1,1,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
```

11.13 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,11)); lvl=0; h,r-ind=11,121
  [5,3]((3,4,13),(3,4,12),(4,5,17),(1,1,3),(3,3,10)); lvl=1; h,r-ind=1,1
    [3,3]((6,7,23),(1,1,3),(3,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,23),(4,5,17),(3,3,10)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((6,7,23),(9,11,36),(8,10,33),(4,5,17)); lvl=2; h,r-ind=1,1
      [3,3]((9,11,36),(8,10,33),(22,27,89)); lvl=3; h,r-ind=1,1
      [4,3]((5,6,20),(4,5,17),(8,10,33),(22,27,89)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,5,17),(13,16,53),(8,10,33)); lvl=4; h,r-ind=1,1
        [3,3]((22,27,89),(13,16,53),(8,10,33)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,20),(22,27,89),(13,16,53)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,20),(4,5,17),(13,16,53)); lvl=4; h,r-ind=1,1
      [4,3]((6,7,23),(5,6,20),(9,11,36),(22,27,89)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((14,17,56),(5,6,20),(22,27,89)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,36),(14,17,56),(22,27,89)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,23),(14,17,56),(5,6,20)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,36),(6,7,23),(14,17,56)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,13),(8,10,33),(4,5,17)); lvl=2; h,r-ind=1,1
    [4,3]((6,7,23),(9,11,36),(4,5,16),(1,1,3)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,16),(9,11,36),(10,12,39)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,23),(9,11,36),(10,12,39)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(6,7,23),(10,12,39)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,16),(10,12,39)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,12),(4,5,16),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,13),(3,4,12),(4,5,16)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,13),(9,11,36),(4,5,16),(8,10,33)); lvl=2; h,r-ind=1,1
      [3,3]((12,15,49),(9,11,36),(4,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(12,15,49),(4,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,33),(3,4,13),(12,15,49)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,33),(12,15,49),(9,11,36)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(3,3,10)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,11),(1,0,0),(4,5,17),(3,3,10)); lvl=1; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,7),(3,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,17),(2,2,7),(3,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,17),(3,4,14),(2,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,11),(3,4,14),(2,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,11),(1,0,0),(2,2,7)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,11),(2,3,10),(3,4,13),(4,5,17)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,13),(2,3,10),(8,11,37)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,14),(2,3,11),(2,3,10),(8,11,37)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,10),(2,3,11),(5,7,24)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,14),(2,3,11),(5,7,24)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,37),(2,3,10),(5,7,24)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,14),(8,11,37),(5,7,24)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,17),(3,4,14),(3,4,13),(8,11,37)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,14),(8,11,37),(6,8,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(8,11,37),(6,8,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,17),(3,4,13),(6,8,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,17),(3,4,14),(6,8,27)); lvl=3; h,r-ind=1,1
  [5,3]((2,3,8),(3,4,12),(4,6,11),(1,1,2),(1,1,3)); lvl=1; h,r-ind=1,1
    [5,3]((2,3,6),(4,6,13),(6,8,19),(1,1,2),(6,7,17)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,2),(8,10,23),(4,5,12),(6,7,17)); lvl=3; h,r-ind=1,1
        [3,3]((8,10,23),(5,6,14),(4,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,17),(5,6,14),(4,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(8,10,23),(5,6,14)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,17),(1,1,2),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(1,1,2),(8,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,4,9),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(8,10,23),(4,5,12)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,9),(5,7,16),(6,8,19),(4,5,12)); lvl=3; h,r-ind=1,1
        [3,3]((9,12,28),(6,8,19),(5,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(9,12,28),(5,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,12),(9,12,28),(6,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(4,5,12),(9,12,28)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(4,6,13),(5,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,4,9),(4,6,13)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((1,1,3),(1,1,2),(6,7,17)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(3,4,11),(6,8,19),(6,7,17)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,4,10),(4,5,12),(9,11,28)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,1,3),(3,4,11),(3,4,10),(9,11,28)); lvl=3; h,r-ind=1,3
        [3,3]((4,5,13),(3,4,10),(3,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(4,5,13),(3,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,28),(4,5,13),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(9,11,28),(4,5,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,3),(6,7,17),(4,5,12),(9,11,28)); lvl=3; h,r-ind=1,3
        [3,3]((4,5,12),(5,6,15),(6,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(5,6,15),(6,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,28),(4,5,12),(5,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(9,11,28),(5,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(4,5,12),(6,8,19)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,12),(1,1,3),(3,4,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,8),(4,6,13),(3,4,11),(6,8,19)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((2,3,7),(2,3,8),(3,4,10),(3,4,11)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,18),(3,4,11),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(5,7,18),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(5,7,18),(3,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(2,3,8),(5,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,16),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,16),(6,8,19),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,16),(4,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,12),(2,3,8),(3,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,11),(2,3,6),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=1; h,r-ind=1,1
  [5,3]((0,1,0),(1,0,0),(1,2,3),(4,6,11),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(4,6,11),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,6),(2,3,5),(4,6,9),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(4,6,9),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(4,6,9),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,6),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,5),(5,7,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,3),(4,5,7),(3,4,6),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,7),(5,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,7),(5,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(5,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(2,2,3),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,8),(3,4,5),(4,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,2,3),(5,6,8),(8,9,12),(4,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((7,8,11),(8,9,12),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(7,8,11),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(4,5,7),(7,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(7,8,11),(8,9,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,1),(1,0,0),(2,2,3),(8,9,12)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,12),(2,2,3),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(8,9,12),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,1),(5,6,8),(8,9,12),(3,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((6,7,9),(8,9,12),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(6,7,9),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(6,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(6,7,9),(8,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,2,3),(2,3,5),(4,6,9),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(4,6,9),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(4,6,9),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(1,2,3),(5,8,12)); lvl=3; h,r-ind=1,1
    [6,3]((2,3,3),(4,5,7),(1,2,2),(3,4,6),(4,6,9),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(4,6,9),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(1,2,2),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,6),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,6,11)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,2),(1,2,3),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
  [5,3]((1,2,4),(3,5,13),(2,3,8),(1,2,3),(4,6,11)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((1,2,3),(4,6,11),(2,3,6)); lvl=2; h,r-ind=1,1
    [5,3]((6,11,21),(1,2,3),(4,6,13),(6,10,21),(2,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,10),(2,3,6),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((8,14,27),(3,5,10),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((6,11,21),(4,7,14),(8,14,27),(1,2,3)); lvl=3; h,r-ind=1,1
        [3,3]((5,9,17),(4,7,14),(8,14,27)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,17),(1,2,3),(8,14,27)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,21),(5,9,17),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,21),(5,9,17),(4,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,14),(8,14,27),(3,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(3,5,10),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(5,8,17),(3,5,10)); lvl=3; h,r-ind=1,1
      [4,3]((4,7,14),(6,10,21),(5,8,17),(3,5,10)); lvl=3; h,r-ind=1,1
        [3,3]((9,15,31),(5,8,17),(6,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,14),(9,15,31),(6,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,10),(4,7,14),(9,15,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,10),(9,15,31),(5,8,17)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,8),(4,6,13),(6,10,21),(3,5,12)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((3,5,11),(6,10,21),(5,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(3,5,11),(5,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(4,6,13),(5,8,17)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,12),(2,3,8),(2,3,7),(3,5,11)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,8),(2,3,7),(5,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,11),(2,3,7),(5,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,12),(2,3,8),(5,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,11),(3,5,12),(5,8,19)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(6,11,21),(6,10,21),(3,5,12)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,5,11),(4,7,14),(6,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(4,7,14),(9,16,33)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,4),(4,7,14),(6,11,21),(9,16,33)); lvl=3; h,r-ind=1,3
        [3,3]((6,11,21),(5,9,18),(4,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((9,16,33),(5,9,18),(4,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(9,16,33),(5,9,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(6,11,21),(5,9,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,4),(3,5,12),(3,5,11),(9,16,33)); lvl=3; h,r-ind=1,3
        [3,3]((3,5,12),(4,7,15),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((9,16,33),(4,7,15),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(9,16,33),(4,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(3,5,12),(4,7,15)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,13),(2,3,8),(3,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,13),(3,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(6,11,21),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,5,15),(1,2,4),(3,5,13)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,5),(6,11,27),(3,5,14),(4,7,18)); lvl=2; h,r-ind=1,1
      [3,3]((6,11,27),(5,9,23),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,14),(5,9,23),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(3,5,14),(5,9,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(6,11,27),(5,9,23)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,13),(3,5,14),(4,7,18)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(6,11,27),(3,5,13),(4,7,18)); lvl=2; h,r-ind=1,1
      [3,3]((6,11,27),(5,9,22),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(5,9,22),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,13),(5,9,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(6,11,27),(5,9,22)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(1,2,5),(0,1,0),(6,11,27)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((0,1,0),(2,4,9),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,27),(2,4,9),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(6,11,27),(2,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(0,1,0),(2,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(3,5,15),(3,5,14)); lvl=2; h,r-ind=1,1
  [6,3]((3,5,15),(2,3,10),(3,5,13),(2,3,8),(3,4,13),(3,4,12)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,9),(3,4,12),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,13),(2,3,9),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,13),(3,5,14),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,15),(3,5,14),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(3,5,15),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,13),(2,3,9),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(3,4,13),(2,3,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,11),(3,5,15),(2,3,10)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,11),(3,5,15)); lvl=1; h,r-ind=3,3; optimized-h
```

11.14 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,4,11)); lvl=0; h,r-ind=11,121
  [4,3]((1,2,5),(2,2,5),(2,3,7),(3,5,13)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,10),(2,2,5),(2,3,7)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,2,5),(3,4,10),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(3,5,13),(3,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,13),(3,4,10),(2,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,4,11),(1,2,5),(3,5,13)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,5),(1,2,4),(2,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,5),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,11),(0,1,0),(1,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((2,4,11),(1,0,0),(2,2,5),(3,5,13)); lvl=1; h,r-ind=1,2
    [3,3]((2,3,8),(1,0,0),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,13),(2,3,8),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,11),(2,3,8),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,13),(2,4,11),(2,3,8)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,4),(1,2,3),(1,0,0),(2,2,5),(2,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,4),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,7),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(1,1,2),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
```

11.15 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,5,11)); lvl=0; h,r-ind=11,121
  [5,3]((1,1,2),(1,2,3),(2,4,5),(2,2,3),(2,3,6)); lvl=1; h,r-ind=1,1
    [4,3]((2,2,3),(1,1,2),(5,7,11),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,8),(5,7,11),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(3,4,6),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
    [6,3]((5,8,12),(6,9,14),(2,3,4),(3,5,7),(5,7,11),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,11),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(3,5,7),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(4,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(2,3,4),(3,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(5,8,12),(2,4,5),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(4,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((6,9,14),(2,3,5),(1,1,2),(5,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((7,10,16),(1,1,2),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(7,10,16),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(7,10,16),(1,1,2)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(5,8,12),(6,9,14),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,3),(7,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,5),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,11),(1,1,2),(2,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,5,11),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,10),(2,5,7),(1,2,3),(2,3,6)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,7),(4,9,15),(6,13,22)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,11),(5,11,18),(9,20,32),(4,9,15)); lvl=3; h,r-ind=1,1
        [3,3]((8,18,29),(9,20,32),(5,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,15),(8,18,29),(5,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,11),(4,9,15),(8,18,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,11),(8,18,29),(9,20,32)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(2,5,7),(3,7,11),(9,20,32)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,11),(2,5,7),(4,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,5,7),(4,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((9,20,32),(3,7,11),(4,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(9,20,32),(4,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((6,13,22),(5,11,18),(4,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(6,13,22),(5,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,18),(9,20,32)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(3,7,12),(4,9,15),(6,13,22)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,12),(5,11,19),(4,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,22),(5,11,19),(4,9,15)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,2,4),(6,13,22),(5,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,12),(5,11,19)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,6),(1,2,4),(1,2,3),(6,13,22)); lvl=2; h,r-ind=1,4; alert-r-inc
      [3,3]((2,4,7),(1,2,4),(6,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(1,2,3),(6,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(2,4,7),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(2,4,7),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((4,10,17),(3,7,12),(2,5,7),(4,9,15)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,12),(4,9,15),(6,14,23),(11,26,43)); lvl=3; h,r-ind=1,1
        [3,3]((4,9,15),(9,21,35),(6,14,23)); lvl=4; h,r-ind=1,1
        [3,3]((11,26,43),(9,21,35),(6,14,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(11,26,43),(9,21,35)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(4,9,15),(9,21,35)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,8),(3,7,11),(6,14,23),(11,26,43)); lvl=3; h,r-ind=1,1
        [3,3]((8,19,31),(3,7,11),(6,14,23)); lvl=4; h,r-ind=1,1
        [3,3]((11,26,43),(8,19,31),(6,14,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(11,26,43),(8,19,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(8,19,31),(3,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(2,5,7),(3,7,11)); lvl=3; h,r-ind=1,1
      [4,3]((4,10,17),(2,5,8),(3,7,12),(11,26,43)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((5,12,20),(2,5,8),(11,26,43)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(5,12,20),(11,26,43)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,17),(5,12,20),(2,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(4,10,17),(5,12,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,11),(4,9,15),(6,14,23)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(2,5,10),(4,10,17),(3,7,12)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,12),(2,5,9),(4,10,17),(6,14,25)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,21),(2,5,9),(4,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(5,12,21),(4,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,25),(3,7,12),(5,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,25),(5,12,21),(2,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,12),(6,14,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(6,14,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(2,5,10)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,11),(2,5,10),(2,3,6)); lvl=1; h,r-ind=4,4; optimized-h
  [4,3]((2,5,7),(1,3,3),(1,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(1,2,3),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(2,5,6),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,7),(2,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,5,10),(2,5,7),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((4,10,17),(1,3,4),(2,5,7)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,3),(1,3,4),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,10),(1,3,5),(4,10,17),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(4,11,18),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(4,11,18),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(4,10,17),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,10),(2,5,9),(1,3,5),(4,11,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,9),(4,11,18),(3,8,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,11,18),(3,8,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(2,5,9),(3,8,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,5,10),(3,8,14)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,11),(0,1,0),(2,5,10)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,0,0),(0,1,0),(1,3,3),(2,4,5),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(2,3,4),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(2,4,5),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,6),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(3,5,6),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,6),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(0,1,0),(1,2,2)); lvl=2; h,r-ind=1,1
```

11.16 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,6,11)); lvl=0; h,r-ind=11,121
  [3,3]((1,2,3),(1,3,3),(1,3,5)); lvl=1; h,r-ind=2,2; optimized-h
```

```
  [3,3]((0,1,0),(1,3,3),(1,3,5)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,2,3),(3,8,14),(2,4,7),(2,3,5),(1,3,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,5),(3,7,12),(6,13,22),(4,9,15)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,12),(6,13,22),(7,16,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,15),(6,13,22),(7,16,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(3,7,12),(7,16,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,15),(1,3,5),(7,16,27)); lvl=3; h,r-ind=1,1
    [5,3]((2,3,5),(5,10,17),(1,2,3),(6,13,22),(4,9,15)); lvl=2; h,r-ind=1,1
      [3,3]((3,6,10),(4,9,15),(6,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((5,10,17),(3,6,10),(6,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,10,17),(3,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,6,10),(4,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,3),(3,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,3),(4,9,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,7),(2,3,5),(5,10,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,14),(1,3,5),(3,7,12)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,7),(5,10,17),(3,7,12),(6,13,22)); lvl=2; h,r-ind=1,1
      [3,3]((8,17,29),(6,13,22),(5,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(8,17,29),(5,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(8,17,29),(6,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(3,7,12),(8,17,29)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,14),(2,4,7),(3,7,12)); lvl=2; h,r-ind=1,1
  [3,3]((2,6,11),(3,8,14),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,6,11),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((2,6,11),(3,8,14),(2,4,7)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(2,4,7),(2,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((2,6,11),(1,0,0),(2,4,7)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,0,0),(1,2,3),(2,3,5),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,9),(2,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(2,3,3),(4,6,9),(1,2,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,2,3),(5,9,12),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,3
        [3,3]((5,9,12),(3,5,7),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(3,5,7),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(5,9,12),(3,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(1,2,3),(3,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(5,9,12),(2,3,4)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((1,2,2),(2,3,3),(2,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(1,3,3),(1,2,2),(5,9,12)); lvl=3; h,r-ind=1,3
        [3,3]((2,4,5),(1,3,3),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,12),(2,4,5),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(5,9,12),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,5),(1,3,3)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,3),(4,6,9)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(4,6,9),(2,3,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

11.17 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,8,11)); lvl=0; h,r-ind=11,121
  [5,3]((1,3,3),(2,7,9),(1,2,2),(2,4,5),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(1,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((3,9,11),(4,11,13),(2,5,6),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((4,11,13),(2,5,6),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,6),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,11),(4,11,13),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,9,11),(5,14,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,9),(3,9,11),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,7,9),(3,9,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,2,2),(4,11,13),(3,8,9),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,9),(4,11,13),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(4,11,13),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,8,9),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(1,2,2),(5,13,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(3,9,11),(4,11,13),(3,8,9)); lvl=2; h,r-ind=1,1
      [4,3]((2,6,7),(9,25,29),(3,9,11),(4,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,11,13),(9,25,29),(6,17,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(9,25,29),(6,17,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,11),(4,11,13),(6,17,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(3,9,11),(6,17,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,9),(9,25,29),(4,11,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(2,6,7),(3,8,9),(9,25,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,14,16),(9,25,29),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(5,14,16),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(1,3,3),(5,14,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(5,14,16),(9,25,29)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(1,2,2),(3,8,9)); lvl=2; h,r-ind=1,1
```

```
  [3,3]((1,0,0),(2,4,5),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((2,8,11),(1,0,0),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((2,8,11),(2,7,9),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,4,5),(1,3,3),(2,7,9)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,9),(3,11,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(3,11,12),(2,7,9),(3,11,13)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,8),(3,11,13),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,8),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(1,3,3),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(2,7,8),(3,11,13)); lvl=3; h,r-ind=1,1
    [4,3]((3,11,12),(1,4,5),(1,4,4),(3,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,4),(1,4,5),(4,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,13),(1,4,5),(4,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,12),(1,4,4),(4,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,13),(3,11,12),(4,15,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(3,11,12),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(1,4,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,8,11),(1,4,5),(2,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((2,8,11),(0,1,0),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(2,4,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

11.18 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,10,11)); lvl=0; h,r-ind=11,121
  [3,3]((2,10,11),(1,5,5),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,5,5),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,10,11),(1,1,1),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,1,1),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,10,11),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,10,11),(1,5,5)); lvl=1; h,r-ind=1,1
```

11.19 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,3,11)); lvl=0; h,r-ind=11,121
  [3,3]((3,3,10),(1,0,0),(2,2,7)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,11),(1,0,0),(2,2,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,10),(2,2,7)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,11),(0,1,0),(2,2,7)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,10),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(1,0,0)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((0,1,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,10),(1,1,3)); lvl=1; h,r-ind=1,1
```

11.20 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,7,11)); lvl=0; h,r-ind=11,121
  [3,3]((1,0,0),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,7,10),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,11),(3,7,10),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,11),(0,1,0),(3,7,10)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((3,7,11),(1,0,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(1,0,0),(2,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
```

11.21 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,9,11)); lvl=0; h,r-ind=11,121
  [3,3]((3,6,7),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,6),(3,6,7),(1,0,0)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((3,9,11),(2,5,6),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,9,11),(2,5,6),(4,11,13)); lvl=1; h,r-ind=1,1
  [4,3]((3,6,7),(1,2,2),(6,15,17),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(3,7,8),(6,15,17)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,11),(1,2,2),(3,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((3,6,7),(5,10,11),(1,1,1),(3,7,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(4,8,9),(5,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(4,8,9),(5,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(3,7,8),(4,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(1,1,1),(4,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((5,10,11),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,9,10),(1,2,2),(6,15,17)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,2),(3,8,9),(6,15,17),(5,13,14)); lvl=2; h,r-ind=1,1
      [3,3]((4,10,11),(3,8,9),(6,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,10,11),(6,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,14),(4,10,11),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,13,14),(4,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(3,8,9),(5,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(5,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,10),(1,3,3),(3,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,9,10),(1,3,3)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,6),(4,11,13),(3,6,7),(6,15,17)); lvl=1; h,r-ind=1,1
    [3,3]((7,18,21),(5,13,15),(4,11,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,6),(7,18,21),(12,30,35),(4,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((9,23,27),(12,30,35),(7,18,21)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,13),(9,23,27),(7,18,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(4,11,13),(9,23,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(9,23,27),(12,30,35)); lvl=3; h,r-ind=1,1
    [4,3]((7,18,21),(12,30,35),(3,7,8),(5,13,15)); lvl=2; h,r-ind=1,1
      [3,3]((10,25,29),(3,7,8),(12,30,35)); lvl=3; h,r-ind=1,1
      [3,3]((7,18,21),(10,25,29),(12,30,35)); lvl=3; h,r-ind=1,1
      [3,3]((7,18,21),(5,13,15),(10,25,29)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,15),(10,25,29),(3,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,8),(6,15,17),(5,13,15)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,6),(12,30,35),(3,7,8),(3,6,7)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((5,12,14),(3,7,8),(12,30,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(5,12,14),(12,30,35)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(5,12,14),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,6,7),(5,12,14)); lvl=3; h,r-ind=1,1
  [4,3]((2,6,7),(3,9,10),(4,11,13),(6,15,17)); lvl=1; h,r-ind=1,1
    [3,3]((5,13,15),(3,8,9),(6,15,17)); lvl=2; h,r-ind=1,1
    [4,3]((5,13,15),(7,19,22),(12,33,38),(3,8,9)); lvl=2; h,r-ind=1,1
      [3,3]((10,27,31),(12,33,38),(7,19,22)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,15),(10,27,31),(7,19,22)); lvl=3; h,r-ind=1,1
      [3,3]((10,27,31),(3,8,9),(12,33,38)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,15),(10,27,31),(3,8,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,7),(12,33,38),(3,9,10),(3,8,9)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,8,9),(12,33,38),(5,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(12,33,38),(5,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,10),(3,8,9),(5,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,9,10),(5,14,16)); lvl=3; h,r-ind=1,1
    [3,3]((5,13,15),(4,11,13),(7,19,22)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,7),(4,11,13),(7,19,22),(12,33,38)); lvl=2; h,r-ind=1,1
      [3,3]((7,19,22),(9,25,29),(4,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(9,25,29),(4,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((12,33,38),(2,6,7),(9,25,29)); lvl=3; h,r-ind=1,1
      [3,3]((12,33,38),(7,19,22),(9,25,29)); lvl=3; h,r-ind=1,1
  [3,3]((3,9,11),(2,6,7),(4,11,13)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,6,7),(3,9,10)); lvl=1; h,r-ind=1,1
  [3,3]((3,9,11),(0,1,0),(2,6,7)); lvl=1; h,r-ind=1,1
```

11.22 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,10,11)); lvl=0; h,r-ind=11,121
  [3,3]((0,1,0),(1,3,3),(3,10,10)); lvl=1; h,r-ind=1,1
  [3,3]((3,10,11),(1,3,3),(3,10,10)); lvl=1; h,r-ind=1,1
  [3,3]((3,10,11),(0,1,0),(3,10,10)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((1,2,2),(0,1,0),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,10,11),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,10,11),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,10,11),(1,1,1)); lvl=1; h,r-ind=1,1
```

11.23 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,5,11)); lvl=0; h,r-ind=11,121
  [3,3]((1,1,2),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,11),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,5,11),(1,1,2)); lvl=1; h,r-ind=1,1
```

11.24 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,8,11)); lvl=0; h,r-ind=11,121
  [3,3]((1,0,0),(2,3,4),(3,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,6),(4,6,7),(2,3,4),(3,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,7),(3,4,5),(6,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,5),(6,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(2,3,4),(6,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,6,7),(6,9,11)); lvl=2; h,r-ind=1,1
  [3,3]((5,8,11),(3,5,6),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(1,0,0),(3,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,3),(4,6,7),(1,1,1),(3,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,5),(4,6,7),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(4,6,7),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,4,5),(5,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,2),(3,5,6),(2,3,3),(4,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(4,6,7),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,6,7),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(3,5,6),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(5,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,2),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,8,11),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,8,11),(1,2,2),(3,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,8,11),(1,0,0),(2,3,4)); lvl=1; h,r-ind=1,1
```

11.25 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,10,11)); lvl=0; h,r-ind=11,121
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,10,11),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(2,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,10,11),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,10,11),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,10,11),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
```

11.26 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,7,11)); lvl=0; h,r-ind=11,121
  [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,4),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,7,11),(0,1,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,7,11),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

11.27 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,10,11)); lvl=0; h,r-ind=11,121
  [3,3]((7,10,11),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((7,10,11),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((7,10,11),(2,3,3),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(7,10,11),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(3,4,4)); lvl=1; h,r-ind=1,1
```

11.28 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,10,11)); lvl=0; h,r-ind=11,121
  [3,3]((10,10,11),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(10,10,11),(1,1,1)); lvl=1; h,r-ind=1,1
```

12 H-index = 12

12.0 Classification

```
[3,3]((1,0,0),(0,1,0),(0,1,12))
  [3,3]((1,0,0),(0,1,0),(0,1,12))
  [3,3]((1,0,0),(0,1,0),(1,0,12))
  [3,3]((1,0,0),(1,12,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,5,12))
  [3,3]((1,0,0),(0,1,0),(0,5,12))
  [3,3]((1,0,0),(0,1,0),(5,0,12))
  [3,3]((1,0,0),(5,12,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,7,12))
  [3,3]((1,0,0),(0,1,0),(0,7,12))
  [3,3]((1,0,0),(0,1,0),(7,0,12))
  [3,3]((1,0,0),(7,12,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,11,12))
  [3,3]((1,0,0),(0,1,0),(0,11,12))
  [3,3]((1,0,0),(0,1,0),(11,0,12))
  [3,3]((1,0,0),(11,12,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(1,1,12))
  [3,3]((1,0,0),(0,1,0),(1,1,12))
  [3,3]((1,0,0),(0,1,0),(1,11,12))
  [3,3]((1,0,0),(0,1,0),(11,1,12))
[3,3]((1,0,0),(0,1,0),(1,2,12))
  [3,3]((1,0,0),(0,1,0),(1,2,12))
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  [3,3]((1,0,0),(0,1,0),(10,1,12))
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  [3,3]((1,0,0),(1,2,0),(0,5,6))
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  [3,3]((1,0,0),(0,1,0),(1,3,12))
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  [3,3]((1,0,0),(0,1,0),(3,1,12))
  [3,3]((1,0,0),(0,1,0),(9,1,12))
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  [3,3]((1,0,0),(1,3,0),(0,3,4))
[3,3]((1,0,0),(0,1,0),(1,4,12))
  [3,3]((1,0,0),(0,1,0),(1,4,12))
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  [3,3]((1,0,0),(0,1,0),(8,1,12))
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  [3,3]((1,0,0),(0,1,0),(1,5,12))
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  [3,3]((1,0,0),(0,1,0),(2,3,12))
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  [3,3]((1,0,0),(1,2,0),(5,1,6))
  [3,3]((1,0,0),(1,2,0),(5,3,6))
```

```
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  [3,3]((1,0,0),(0,1,0),(9,4,12))
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  [3,3]((1,0,0),(1,3,0),(1,3,4))
  [3,3]((1,0,0),(1,4,0),(1,0,3))
  [3,3]((1,0,0),(1,4,0),(1,1,3))
[3,3]((1,0,0),(0,1,0),(4,11,12))
  [3,3]((1,0,0),(0,1,0),(4,11,12))
```

```
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  [3,3]((1,0,0),(0,1,0),(5,6,12))
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  [3,3]((1,0,0),(0,1,0),(5,8,12))
  [3,3]((1,0,0),(0,1,0),(8,5,12))
  [3,3]((1,0,0),(1,4,0),(1,2,3))
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  [3,3]((1,0,0),(0,1,0),(5,10,12))
  [3,3]((1,0,0),(0,1,0),(10,5,12))
  [3,3]((1,0,0),(1,2,0),(2,5,6))
[3,3]((1,0,0),(0,1,0),(6,7,12))
  [3,3]((1,0,0),(0,1,0),(6,7,12))
  [3,3]((1,0,0),(0,1,0),(7,6,12))
  [3,3]((1,0,0),(1,6,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(6,11,12))
  [3,3]((1,0,0),(0,1,0),(6,11,12))
  [3,3]((1,0,0),(0,1,0),(11,6,12))
  [3,3]((1,0,0),(5,6,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(7,7,12))
  [3,3]((1,0,0),(0,1,0),(7,7,12))
  [3,3]((1,0,0),(0,1,0),(7,11,12))
  [3,3]((1,0,0),(0,1,0),(11,7,12))
[3,3]((1,0,0),(0,1,0),(7,9,12))
  [3,3]((1,0,0),(0,1,0),(7,9,12))
  [3,3]((1,0,0),(0,1,0),(9,7,12))
  [3,3]((1,0,0),(1,3,0),(2,3,4))
[3,3]((1,0,0),(0,1,0),(8,9,12))
  [3,3]((1,0,0),(0,1,0),(8,9,12))
  [3,3]((1,0,0),(0,1,0),(9,8,12))
  [3,3]((1,0,0),(2,3,0),(1,0,4))
  [3,3]((1,0,0),(2,3,0),(2,3,4))
  [3,3]((1,0,0),(1,4,0),(2,0,3))
  [3,3]((1,0,0),(1,4,0),(2,2,3))
[3,3]((1,0,0),(0,1,0),(8,11,12))
  [3,3]((1,0,0),(0,1,0),(8,11,12))
  [3,3]((1,0,0),(0,1,0),(11,8,12))
  [3,3]((1,0,0),(3,4,0),(2,2,3))
[3,3]((1,0,0),(0,1,0),(9,10,12))
  [3,3]((1,0,0),(0,1,0),(9,10,12))
  [3,3]((1,0,0),(0,1,0),(10,9,12))
  [3,3]((1,0,0),(1,2,0),(4,3,6))
  [3,3]((1,0,0),(1,2,0),(4,5,6))
  [3,3]((1,0,0),(1,3,0),(3,2,4))
  [3,3]((1,0,0),(1,3,0),(3,3,4))
[3,3]((1,0,0),(0,1,0),(9,11,12))
  [3,3]((1,0,0),(0,1,0),(9,11,12))
  [3,3]((1,0,0),(0,1,0),(11,9,12))
  [3,3]((1,0,0),(2,3,0),(3,3,4))
[3,3]((1,0,0),(0,1,0),(10,11,12))
  [3,3]((1,0,0),(0,1,0),(10,11,12))
  [3,3]((1,0,0),(0,1,0),(11,10,12))
  [3,3]((1,0,0),(1,2,0),(5,5,6))
[3,3]((1,0,0),(0,1,0),(11,11,12))
  [3,3]((1,0,0),(0,1,0),(11,11,12))
[3,3]((1,0,0),(1,2,0),(1,0,6))
  [3,3]((1,0,0),(1,2,0),(1,0,6))
  [3,3]((1,0,0),(1,2,0),(1,2,6))
  [3,3]((1,0,0),(1,6,0),(1,0,2))
[3,3]((1,0,0),(1,2,0),(1,4,6))
  [3,3]((1,0,0),(1,2,0),(1,4,6))
[3,3]((1,0,0),(1,2,0),(3,2,6))
  [3,3]((1,0,0),(1,2,0),(3,2,6))
  [3,3]((1,0,0),(1,2,0),(3,4,6))
  [3,3]((1,0,0),(1,2,0),(5,2,6))
[3,3]((1,0,0),(1,2,0),(5,0,6))
  [3,3]((1,0,0),(1,2,0),(5,0,6))
  [3,3]((1,0,0),(1,2,0),(5,4,6))
  [3,3]((1,0,0),(5,6,0),(1,0,2))
```

12.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,12)); lvl=0; h,r-ind=12,12
  [3,3]((1,0,0),(0,1,6),(0,1,0)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((1,0,0),(0,1,12),(0,1,6)); lvl=1; h,r-ind=6,6; optimized-h
```

12.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,5,12)); lvl=0; h,r-ind=12,12
  [3,3]((1,0,0),(0,2,3),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,2),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,4,9),(0,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,4,9),(0,5,12)); lvl=1; h,r-ind=3,3; optimized-h
```

12.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,7,12)); lvl=0; h,r-ind=12,12
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,2,3),(0,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,3,5),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,7,12),(0,3,5)); lvl=1; h,r-ind=1,1
```

12.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,11,12)); lvl=0; h,r-ind=12,12
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,1),(0,11,12)); lvl=1; h,r-ind=1,1
```

12.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,12)); lvl=0; h,r-ind=12,144
  [3,3]((1,0,0),(1,1,6),(1,1,11)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((0,1,0),(1,1,6),(1,1,11)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,1,12),(0,1,0),(1,1,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,12),(1,0,0),(1,1,11)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,6)); lvl=1; h,r-ind=6,36; optimized-h
```

12.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,12)); lvl=0; h,r-ind=12,72
  [4,3]((1,0,0),(1,1,6),(1,2,6),(1,2,10)); lvl=1; h,r-ind=2,2
    [4,3]((2,2,9),(1,1,3),(1,2,6),(1,2,8)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,4),(1,1,3),(1,2,7),(1,2,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,7),(1,2,6),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(1,2,6),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(1,2,7),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(1,1,4),(2,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(1,1,4),(1,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(2,2,9),(1,1,4)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,9),(1,1,5),(1,2,10),(1,2,8)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,18),(1,1,5),(1,2,9),(1,2,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,9),(1,2,10),(2,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(1,2,10),(2,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,18),(1,2,9),(2,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(3,4,18),(2,3,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(3,4,18),(1,2,9)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,2,9),(1,2,8),(3,4,18)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,2,9),(3,4,18),(1,1,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,9),(1,1,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,6),(1,0,0),(1,1,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,6),(1,1,5),(1,2,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,9),(1,1,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,2,6),(1,2,10)); lvl=1; h,r-ind=4,4; optimized-h
```

```
  [3,3]((1,2,12),(0,1,0),(1,2,10)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,12),(1,1,6),(1,2,10)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,6)); lvl=1; h,r-ind=6,18; optimized-h
```

12.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,12)); lvl=0; h,r-ind=12,48
  [4,3]((1,0,0),(2,3,12),(1,3,9),(1,3,6)); lvl=1; h,r-ind=9,3
    [3,3]((1,2,7),(2,3,12),(1,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(1,2,7),(1,1,4)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,0,0),(2,3,9),(1,1,4)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,0,0),(2,3,6),(2,3,9)); lvl=2; h,r-ind=9,3; optimized-h
    [4,3]((2,3,9),(2,6,15),(1,3,9),(1,2,7)); lvl=2; h,r-ind=3,3
      [3,3]((1,2,6),(1,3,8),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(1,2,7),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(1,2,6),(1,2,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,6),(2,6,15),(4,9,24),(1,3,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,6),(2,5,13),(4,9,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,5,13),(4,10,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(1,2,6),(4,10,27)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,8),(2,6,15),(2,5,13),(4,10,27)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,8,21),(2,6,15),(2,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((4,10,27),(3,8,21),(2,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(4,10,27),(3,8,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(3,8,21),(2,6,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,9),(1,2,6),(4,9,24)); lvl=3; h,r-ind=3,3; optimized-h
    [4,3]((2,3,6),(2,3,9),(1,3,6),(2,6,15)); lvl=2; h,r-ind=9,3
      [4,3]((1,3,7),(1,2,5),(2,6,15),(4,9,24)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,5),(2,5,13),(4,9,24)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,25),(1,2,5),(2,5,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,7),(4,10,25),(2,6,15),(2,5,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,10,25),(3,8,20),(2,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,15),(3,8,20),(2,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(2,6,15),(3,8,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(4,10,25),(3,8,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(4,10,25),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(1,2,5),(4,9,24)); lvl=3; h,r-ind=3,3; optimized-h
      [3,3]((2,3,9),(4,6,15),(1,2,5)); lvl=3; h,r-ind=3,3; optimized-h
      [4,3]((1,3,6),(1,3,7),(1,2,4),(1,2,5)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,4),(1,2,5),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(1,2,5),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,2,4),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(1,3,6),(2,5,11)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,6),(4,6,15),(1,2,4),(1,2,5)); lvl=3; h,r-ind=1,1
        [3,3]((4,7,16),(1,2,5),(1,2,4)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,6),(4,7,16),(2,3,7),(1,2,4)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,7),(4,7,16),(3,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,4),(4,7,16),(3,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,6),(1,2,4),(3,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,6),(2,3,7),(3,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,16),(2,3,7),(1,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(4,6,15),(1,2,5)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,9),(1,3,6)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,3,12),(0,1,0),(1,3,9)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,3,6)); lvl=1; h,r-ind=6,12; optimized-h
  [3,3]((1,3,12),(2,3,12),(1,3,9)); lvl=1; h,r-ind=9,3; optimized-h
```

12.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,4,12)); lvl=0; h,r-ind=12,36
  [4,3]((1,0,0),(1,2,6),(1,4,8),(1,4,6)); lvl=1; h,r-ind=4,4
    [4,3]((1,3,7),(1,2,4),(1,4,7),(1,4,8)); lvl=2; h,r-ind=1,2
      [3,3]((1,2,4),(1,4,7),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(1,4,7),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(1,4,8),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(1,2,4),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(1,3,7),(1,2,4)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,1,3),(1,2,6),(1,2,4)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,0,0),(1,1,3),(1,2,4)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,4,6),(1,2,4),(1,4,7)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,2,3),(1,4,6),(1,2,4)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,0,0),(1,2,3),(1,2,4)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,4,8),(1,4,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,4,12),(0,1,0),(1,4,8)); lvl=1; h,r-ind=4,4; optimized-h
```

```
  [3,3]((0,1,0),(1,0,0),(1,4,6)); lvl=1; h,r-ind=6,18; optimized-h
  [3,3]((1,4,12),(1,2,6),(1,4,8)); lvl=1; h,r-ind=8,4; optimized-h
```

12.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,5,12)); lvl=0; h,r-ind=12,144
  [5,3]((1,5,7),(1,5,6),(2,7,14),(1,2,4),(1,2,3)); lvl=1; h,r-ind=3,1
    [4,3]((1,4,6),(2,7,11),(1,5,6),(2,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,10),(2,7,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,5),(3,11,16),(5,19,27),(2,7,10)); lvl=3; h,r-ind=1,1
        [3,3]((4,15,21),(5,19,27),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(4,15,21),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,10),(4,15,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(4,15,21),(5,19,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(3,11,16),(2,7,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,6),(2,7,11),(3,11,16),(5,19,27)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,11),(4,15,22),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,19,27),(4,15,22),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(2,7,11),(4,15,22)); lvl=4; h,r-ind=1,1
        [3,3]((5,19,27),(1,4,6),(4,15,22)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,6),(1,4,6),(1,4,5),(5,19,27)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,8,11),(1,4,6),(5,19,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,11),(1,4,5),(5,19,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,8,11),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,8,11),(1,4,6)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(2,7,11),(1,3,5),(2,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,15),(2,7,10),(2,7,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,5),(3,10,15),(5,16,24),(2,7,11)); lvl=3; h,r-ind=1,1
        [3,3]((4,13,20),(3,10,15),(5,16,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,13,20),(5,16,24)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,20),(2,7,11),(3,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,13,20),(2,7,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(1,2,3),(1,3,5),(5,16,24)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((1,3,5),(2,6,9),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,6,9),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,24),(1,3,5),(2,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(5,16,24),(2,6,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(3,10,15),(5,16,24),(2,7,10)); lvl=3; h,r-ind=1,1
        [3,3]((5,16,24),(4,13,19),(3,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(4,13,19),(3,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,10),(4,13,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(5,16,24),(4,13,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,9),(1,3,4),(2,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,5),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(1,3,6),(3,10,17),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,6,11),(1,3,6),(3,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,6,11),(3,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,4),(2,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,6,11),(1,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,11),(4,14,23),(1,3,5),(3,10,17)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,17),(4,14,23),(5,17,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(4,14,23),(5,17,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,11),(5,17,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(3,10,17),(5,17,28)); lvl=3; h,r-ind=1,1
    [5,3]((1,4,7),(3,11,18),(4,14,23),(1,3,6),(3,10,17)); lvl=2; h,r-ind=1,1
      [3,3]((4,14,23),(2,7,12),(3,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,12),(3,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(1,3,6),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,18),(4,14,23),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,18),(1,4,7),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(2,7,14),(1,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,6),(2,7,11),(3,11,18),(4,14,23)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,11),(4,14,23),(5,18,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,18),(4,14,23),(5,18,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(3,11,18),(5,18,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,11),(5,18,29)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,7),(1,4,7),(1,4,6),(3,11,18)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,13),(1,4,7),(3,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,13),(1,4,6),(3,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,8,13),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,8,13),(1,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(1,4,6),(1,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(1,5,6),(1,0,0),(1,2,3)); lvl=1; h,r-ind=3,3
    [4,3]((1,1,1),(1,3,3),(2,7,9),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(1,3,4),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(1,3,4)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((1,1,1),(1,2,3),(1,2,2),(1,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,4),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,3),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,1,1),(2,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,3,3)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,3),(1,5,6),(2,7,9)); lvl=2; h,r-ind=3,3
      [4,3]((1,4,4),(3,11,12),(1,4,5),(2,9,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,5),(2,8,9),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(2,8,9),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(2,9,9),(2,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,9),(1,4,5),(2,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,5,6),(1,4,5),(2,9,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,5),(1,5,6),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,9),(1,5,5),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,5,5),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(1,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(3,11,12),(1,4,5),(2,7,9)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,8),(3,11,12),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,9),(2,7,8),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,9),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(3,11,12)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,7),(1,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,12),(0,1,0),(1,5,7)); lvl=1; h,r-ind=5,5; optimized-h
  [5,3]((2,4,9),(1,3,7),(1,4,9),(2,7,14),(1,2,4)); lvl=1; h,r-ind=1,1
    [4,3]((4,13,29),(2,5,11),(2,6,13),(1,3,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,9,20),(2,6,13),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,20),(1,3,7),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,29),(3,9,20),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,29),(3,9,20),(2,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((4,13,29),(1,4,9),(1,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((4,13,29),(2,6,13),(1,3,6),(1,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,22),(1,3,6),(2,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,29),(3,10,22),(2,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(3,10,22),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,29),(1,4,9),(3,10,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,4,9),(2,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(2,5,11),(1,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,11),(2,6,13),(1,2,4),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,17),(1,3,6),(2,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(3,8,17),(2,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,11),(3,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,8,17),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(2,5,11),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,9),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(2,4,9),(1,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,12),(1,0,0),(1,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,12),(1,3,7),(1,4,9)); lvl=1; h,r-ind=1,1
  [4,3]((1,5,12),(1,5,7),(1,4,9),(2,7,14)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,8),(1,4,7),(2,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,8),(1,4,9),(2,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,12),(1,4,8),(1,4,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,10,19),(1,4,8),(1,5,7),(1,4,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,8),(4,17,31),(1,4,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,10,17),(1,5,7),(4,17,31),(1,4,7)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,5,8),(5,22,38),(1,4,7),(1,5,7)); lvl=4; h,r-ind=1,3
          [3,3]((5,22,38),(2,9,15),(1,4,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(2,9,15),(1,4,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,8),(5,22,38),(2,9,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(1,5,8),(2,9,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(2,9,16),(5,22,38)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,5,8),(2,10,17),(2,9,16)); lvl=4; h,r-ind=1,1
        [4,3]((4,17,31),(2,9,16),(5,22,38),(1,4,7)); lvl=4; h,r-ind=1,3
          [3,3]((3,13,23),(2,9,16),(5,22,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(3,13,23),(5,22,38)); lvl=5; h,r-ind=1,1
          [3,3]((4,17,31),(3,13,23),(2,9,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(4,17,31),(3,13,23)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,9),(2,10,17),(1,4,8),(4,17,31)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,8),(2,9,16),(4,18,33)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,9),(2,10,17),(2,9,16),(4,18,33)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,25),(2,10,17),(2,9,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,18,33),(3,14,25),(2,9,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(4,18,33),(3,14,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(3,14,25),(2,10,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(1,4,8),(4,18,33)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,4,8),(4,17,31),(2,9,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,19),(1,5,9),(1,4,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,12),(2,10,19),(1,4,8)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
```

12.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,6,12)); lvl=0; h,r-ind=12,24
  [3,3]((1,6,12),(1,6,6),(1,3,6)); lvl=1; h,r-ind=18,6; alert-h-inc
    [4,3]((1,6,12),(1,6,9),(2,9,18),(2,9,15)); lvl=2; h,r-ind=9,3
      [4,3]((1,5,8),(1,5,9),(4,18,33),(2,9,15)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,9),(2,9,16),(4,18,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(2,9,16),(4,19,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(1,5,9),(4,19,33)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,8),(2,9,15),(2,9,16),(4,19,33)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,15),(3,14,24),(2,9,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,33),(3,14,24),(2,9,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,8),(4,19,33),(3,14,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,8),(2,9,15),(3,14,24)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,8),(1,6,9),(1,5,9),(2,12,21)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,9),(1,6,10),(3,16,27)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,8),(1,6,9),(1,6,10),(3,16,27)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,9),(2,11,18),(1,6,10)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,27),(2,11,18),(1,6,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,8),(1,6,9),(2,11,18)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,27),(1,5,8),(2,11,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(1,5,8),(3,16,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(2,12,21),(1,6,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,9),(1,5,10),(4,18,33),(2,9,18)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,10),(2,9,17),(4,19,36),(2,9,18)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,17),(3,14,27),(4,19,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(3,14,27),(4,19,36)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,18),(1,5,10),(3,14,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,18),(2,9,17),(3,14,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(2,9,17),(4,19,36)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(1,5,9),(4,19,36)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(2,9,17),(4,18,33)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,12),(1,5,9),(2,12,21),(1,5,10)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,9),(1,6,11),(2,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(1,6,11),(3,16,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(1,5,9),(3,16,30)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,10),(1,6,12),(1,6,11),(3,16,30)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,12),(2,11,21),(1,6,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,30),(2,11,21),(1,6,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(3,16,30),(2,11,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(1,6,12),(2,11,21)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,6),(2,9,18),(2,9,15)); lvl=2; h,r-ind=9,3; optimized-h
    [4,3]((1,6,6),(2,9,12),(1,6,9),(2,9,15)); lvl=2; h,r-ind=9,3
      [4,3]((1,5,7),(1,5,8),(4,18,27),(2,9,15)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,8),(4,19,29),(2,9,14),(2,9,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,19,29),(3,14,22),(2,9,14)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,15),(3,14,22),(2,9,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,8),(4,19,29),(3,14,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,15),(1,5,8),(3,14,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(1,5,8),(4,19,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(4,19,29),(2,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(4,18,27),(2,9,14)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,6),(1,5,7),(2,9,12),(4,18,27)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,7),(2,9,13),(4,18,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,19,26),(1,5,7),(2,9,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,6),(4,19,26),(2,9,12),(2,9,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,12),(3,14,19),(2,9,13)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,26),(3,14,19),(2,9,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(2,9,12),(3,14,19)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,26),(1,5,6),(3,14,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(4,19,26),(1,5,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,6),(2,12,15),(1,5,6),(1,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,6),(1,5,7),(3,16,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(1,5,7),(3,16,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(2,12,15),(1,5,7)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,6),(1,6,7),(1,5,6),(3,16,20)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,13),(1,6,7),(3,16,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(2,11,13),(3,16,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,6),(2,11,13),(1,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(1,6,6),(2,11,13)); lvl=5; h,r-ind=1,1
      [4,3]((2,12,15),(1,5,7),(1,6,9),(1,5,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,8),(1,5,7),(3,16,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(1,5,7),(3,16,23)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,6,8),(2,12,15),(1,5,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,9),(1,6,8),(1,5,8),(3,16,23)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,16),(1,6,8),(3,16,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(2,11,16),(3,16,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,9),(2,11,16),(1,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(1,6,9),(2,11,16)); lvl=5; h,r-ind=1,1
  [3,3]((1,3,6),(2,9,12),(2,9,15)); lvl=2; h,r-ind=9,3; optimized-h
[3,3]((1,0,0),(1,6,6),(1,3,6)); lvl=1; h,r-ind=18,6; alert-h-inc
  [4,3]((2,3,6),(1,3,3),(2,6,9),(1,0,0)); lvl=2; h,r-ind=9,3
    [4,3]((1,2,3),(2,3,3),(1,3,4),(1,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(3,7,9),(1,3,4),(1,3,3)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,9),(2,5,6),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,5,6),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,3),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(3,7,9),(2,5,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,2),(3,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,2),(2,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,9),(1,3,4)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(4,9,15),(2,6,9),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(4,10,15),(2,5,8),(2,6,9)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,12),(4,10,15),(2,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,9),(3,8,12),(2,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(2,6,9),(3,8,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,12),(4,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(4,10,15),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(4,9,15),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,2,3),(4,10,15)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,6),(1,1,2),(1,2,3),(4,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,2),(4,7,12)); lvl=4; h,r-ind=1,1
      [4,3]((2,4,7),(2,3,6),(1,1,2),(4,7,12)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,9),(2,3,6),(1,1,2)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,12),(3,5,9),(1,1,2)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,7),(4,7,12),(3,5,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,7),(3,5,9),(2,3,6)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,7),(1,2,3),(4,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,15),(2,4,7),(1,2,3)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,2),(1,2,3),(1,0,0),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,3),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(1,2,3),(1,1,1)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,2),(3,4,6),(1,0,0),(1,1,1)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,2,3),(1,1,1),(3,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(1,0,0),(2,2,3)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,6),(1,2,3)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,6),(2,3,6),(2,6,9)); lvl=2; h,r-ind=9,3; optimized-h
  [4,3]((1,6,6),(2,9,12),(1,3,3),(2,6,9)); lvl=2; h,r-ind=9,3
    [4,3]((2,6,9),(4,15,21),(1,4,5),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(4,15,21),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,14,19),(2,7,10),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(4,14,19),(1,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,9),(1,3,4),(4,14,19),(2,7,10)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,14),(1,3,4),(4,14,19)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,14),(2,7,10),(4,14,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,9),(3,10,14),(2,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,9),(3,10,14),(1,3,4)); lvl=5; h,r-ind=1,1
    [4,3]((2,9,9),(1,3,3),(1,4,5),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,4),(3,11,13),(1,3,4),(1,3,3)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,8),(3,11,13),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(1,3,3),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(2,7,8),(3,11,13)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,13),(1,4,5),(1,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(3,11,13),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,9),(1,4,4),(1,4,5)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,6),(1,5,6),(2,9,9),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,6),(3,14,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,6),(1,5,5),(1,5,6),(3,14,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,10,11),(3,14,16),(1,5,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(2,10,11),(1,5,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(1,6,6),(2,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(2,10,11),(3,14,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,5),(1,4,5),(3,14,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,9),(1,5,5),(1,4,5)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,6),(2,9,12),(4,15,21),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,8,11),(4,17,22)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,6),(2,9,12),(2,8,11),(4,17,22)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,17),(2,9,12),(2,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,22),(3,13,17),(2,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(4,17,22),(3,13,17)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((1,5,6),(3,13,17),(2,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(1,5,6),(4,17,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(4,15,21),(2,8,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(2,9,12),(2,6,9)); lvl=2; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,6,12),(1,6,6)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,6,6)); lvl=1; h,r-ind=6,6; optimized-h
```

12.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,12)); lvl=0; h,r-ind=12,24
  [4,3]((2,3,6),(2,3,9),(1,0,0),(1,1,4)); lvl=1; h,r-ind=3,3
    [3,3]((1,1,3),(1,1,4),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,15),(1,1,3),(2,3,9)); lvl=2; h,r-ind=3,3; optimized-h
    [4,3]((1,1,2),(2,3,6),(4,6,15),(1,1,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,7),(4,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,7),(4,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,2),(4,5,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,2),(2,3,6),(2,3,7),(4,5,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,6),(3,4,9),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,12),(3,4,9),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(2,3,6),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,12),(1,1,2),(3,4,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(1,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,0,0),(1,1,3)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,9),(2,3,11),(1,1,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,3,12),(2,3,11),(1,1,4)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,5),(2,3,9),(1,2,6),(2,3,11)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,6),(4,7,21),(2,3,10),(2,3,11)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,10),(4,7,21),(3,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(4,7,21),(3,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,11),(2,3,10),(3,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(2,3,11),(3,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,6),(4,7,21)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(4,7,21),(2,3,9),(2,3,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,15),(2,3,9),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,21),(3,5,15),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(4,7,21),(3,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(3,5,15),(2,3,9)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,12),(1,2,6),(2,3,11)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,5),(2,3,6),(2,3,9)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,4),(1,2,3),(2,3,6),(4,6,15)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,7),(1,2,3),(2,3,6),(4,7,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,10),(2,3,6),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,14),(3,5,10),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(4,7,14),(3,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(3,5,10),(2,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,7),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,7),(4,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,3),(4,7,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,9),(4,6,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,4),(1,2,5),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,5),(1,2,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,6),(1,0,0)); lvl=1; h,r-ind=6,6; optimized-h
```

12.12 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,5,12)); lvl=0; h,r-ind=12,72
  [5,3]((2,2,3),(1,1,2),(1,2,4),(2,5,6),(2,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,7),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(2,5,7),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(2,5,6),(1,2,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,3),(4,7,9),(1,2,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((0,1,0),(1,3,4),(2,5,6),(2,5,7)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,3),(2,5,6),(2,5,7),(4,11,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,6),(3,8,10),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,14),(3,8,10),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,6),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,14),(1,3,3),(3,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,7),(4,11,14)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,4),(1,3,3),(4,11,14)); lvl=2; h,r-ind=1,2; alert-r-inc
```

```
    [3,3]((2,6,7),(1,3,4),(4,11,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(2,6,7),(4,11,14)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,6,7),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(0,1,0),(2,6,7)); lvl=3; h,r-ind=1,1
[3,3]((1,3,6),(0,1,0),(1,3,4)); lvl=1; h,r-ind=2,2; optimized-h
[6,3]((1,3,6),(3,7,16),(1,3,4),(1,2,4),(5,11,25),(2,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,8),(1,2,4),(2,5,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,4),(2,5,8),(2,5,7)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,9),(2,5,8),(4,9,18),(1,2,4)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((3,7,13),(1,2,4),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(3,7,13),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,18),(3,7,13),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(4,9,18),(3,7,13)); lvl=3; h,r-ind=1,1
  [4,3]((3,7,15),(4,9,18),(4,9,20),(1,2,4)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((4,9,19),(4,9,18),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,20),(4,9,19),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,15),(4,9,20),(4,9,19)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,15),(4,9,19),(4,9,18)); lvl=3; h,r-ind=1,1
  [3,3]((5,11,25),(4,9,20),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,16),(5,11,25),(4,9,20)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,5),(1,3,4),(2,5,9),(2,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(2,5,8),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,8),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,4),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,9),(3,8,13)); lvl=3; h,r-ind=1,1
  [6,3]((1,3,6),(1,3,5),(2,5,11),(2,5,9),(3,7,15),(4,9,18)); lvl=2; h,r-ind=1,1
    [4,3]((5,12,24),(4,10,19),(1,3,5),(2,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,19),(1,3,5),(6,15,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(1,3,5),(6,15,29)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,24),(2,5,10),(6,15,29)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,24),(4,10,19),(6,15,29)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,5),(2,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,11),(2,5,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,11),(5,12,24),(5,12,25),(2,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((7,17,35),(5,12,24),(5,12,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(7,17,35),(5,12,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(7,17,35),(5,12,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(2,5,10),(7,17,35)); lvl=4; h,r-ind=1,1
    [4,3]((5,12,24),(5,12,25),(3,7,14),(3,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,14),(3,7,15),(8,19,39)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,25),(3,7,15),(8,19,39)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,24),(3,7,14),(8,19,39)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,25),(5,12,24),(8,19,39)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,14),(4,9,18),(3,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(5,12,25),(3,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,10,19),(2,5,9),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((5,12,24),(3,7,14),(4,10,19),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,19),(2,5,9),(7,17,33)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,14),(2,5,9),(7,17,33)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,24),(3,7,14),(7,17,33)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,24),(4,10,19),(7,17,33)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,14),(2,5,9),(4,9,18)); lvl=3; h,r-ind=1,1
  [4,3]((3,7,16),(2,5,11),(3,7,15),(4,9,20)); lvl=2; h,r-ind=1,1
    [3,3]((6,14,31),(3,7,15),(2,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,16),(6,14,31),(2,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,20),(6,14,31),(3,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,16),(4,9,20),(6,14,31)); lvl=3; h,r-ind=1,1
[3,3]((2,5,12),(1,3,6),(3,7,16)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
[5,3]((1,1,2),(1,2,4),(6,13,30),(5,11,25),(3,4,9)); lvl=1; h,r-ind=1,1
  [3,3]((5,11,25),(2,4,9),(6,13,30)); lvl=2; h,r-ind=1,1
  [3,3]((9,17,39),(2,4,9),(6,13,30)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((3,4,9),(9,17,39),(2,4,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,1,2),(3,4,9),(2,4,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,4),(1,1,2),(2,4,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,4),(5,11,25),(2,4,9)); lvl=2; h,r-ind=1,1
[4,3]((2,5,12),(1,0,0),(6,13,30),(3,4,9)); lvl=1; h,r-ind=3,3
  [3,3]((2,3,7),(1,0,0),(3,4,9)); lvl=2; h,r-ind=1,1
  [4,3]((5,9,21),(9,17,39),(2,3,7),(3,4,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,7),(3,4,9),(4,7,16),(15,26,60)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((6,10,23),(4,7,16),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(6,10,23),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((15,26,60),(6,10,23),(4,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(15,26,60),(6,10,23)); lvl=4; h,r-ind=1,1
    [4,3]((7,13,30),(9,16,37),(4,7,16),(15,26,60)); lvl=3; h,r-ind=1,1
      [3,3]((9,16,37),(15,26,60),(13,23,53)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,16),(15,26,60),(13,23,53)); lvl=4; h,r-ind=1,1
      [3,3]((7,13,30),(9,16,37),(13,23,53)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,16),(7,13,30),(13,23,53)); lvl=4; h,r-ind=1,1
    [3,3]((7,13,30),(9,17,39),(4,7,16)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((5,9,21),(7,13,30),(9,16,37)); lvl=3; h,r-ind=1,1
      [4,3]((5,9,21),(9,16,37),(2,3,7),(15,26,60)); lvl=3; h,r-ind=1,1
        [3,3]((9,16,37),(15,26,60),(11,19,44)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(15,26,60),(11,19,44)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,21),(9,16,37),(11,19,44)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(5,9,21),(11,19,44)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,12),(5,9,21),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((5,9,21),(6,13,30),(4,9,21),(9,17,39)); lvl=2; h,r-ind=3,1
      [4,3]((3,6,14),(5,10,23),(4,9,21),(6,13,30)); lvl=3; h,r-ind=1,1
        [3,3]((5,10,23),(6,13,30),(9,19,44)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,21),(6,13,30),(9,19,44)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,14),(4,9,21),(9,19,44)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,14),(5,10,23),(9,19,44)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,14),(7,13,30),(5,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((9,17,39),(7,13,30),(5,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,21),(3,6,14),(7,13,30)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,12),(5,9,21),(4,9,21)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((2,5,12),(2,3,7),(1,0,0)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,12),(3,7,16),(6,13,30),(5,11,25)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,16),(5,11,25),(12,27,62)); lvl=2; h,r-ind=1,1
    [4,3]((4,9,21),(6,13,30),(5,11,25),(12,27,62)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,11,25),(9,20,46),(6,13,30)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,21),(9,20,46),(6,13,30)); lvl=3; h,r-ind=1,1
      [3,3]((12,27,62),(4,9,21),(9,20,46)); lvl=3; h,r-ind=1,1
      [3,3]((12,27,62),(5,11,25),(9,20,46)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,12),(4,9,21),(3,7,16),(12,27,62)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,9,21),(12,27,62),(7,16,37)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,16),(12,27,62),(7,16,37)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(3,7,16),(7,16,37)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(4,9,21),(7,16,37)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(3,4,9)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,2,3),(2,5,6)); lvl=1; h,r-ind=3,3
    [4,3]((2,3,3),(1,1,1),(4,7,9),(2,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((7,10,12),(2,3,4),(2,2,3),(1,1,1)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,2,3),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((7,10,12),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(7,10,12),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,3),(4,6,7),(7,10,12),(1,1,1)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,8),(4,6,7),(7,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(5,7,8),(7,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(5,7,8),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(2,3,3),(5,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,6),(2,3,3),(4,6,7)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,6),(4,6,7),(7,10,12),(2,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((4,6,7),(7,10,12),(6,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(7,10,12),(6,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,6),(4,6,7),(6,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,5,6),(6,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,6),(2,3,4),(4,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,6),(1,3,3),(2,3,3),(4,7,9)); lvl=2; h,r-ind=3,1
      [3,3]((2,3,3),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,9),(2,4,5),(3,5,6)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,6),(2,4,5),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(2,4,5),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,5,6),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(3,7,8)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,3,3)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
```

12.13 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,7,12)); lvl=0; h,r-ind=12,72
  [3,3]((1,3,5),(1,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(1,2,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,7,12),(1,3,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(1,3,5),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(1,4,6),(1,3,3),(1,3,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,4,5),(1,3,4),(2,8,9),(1,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,9),(1,3,4),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,4),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,8,9),(2,7,9)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,4,5),(1,3,5),(2,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,4,5),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,6),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(2,8,9)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,3),(1,3,4),(2,8,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,4),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(1,3,4),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,8,9),(1,4,4)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,12),(1,4,6),(1,3,5)); lvl=1; h,r-ind=1,1
```

12.14 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,9,12)); lvl=0; h,r-ind=12,24
  [3,3]((1,2,2),(1,0,0),(1,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,2,2),(1,4,5),(1,3,3),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,3),(1,4,5),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,5),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,2,2),(2,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,12),(1,4,5),(1,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,5,6),(1,4,5),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,10),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,4),(2,9,9),(2,9,10),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,9),(2,9,10),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,10),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,4,5),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,9,9),(3,13,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(1,4,4),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(2,9,9),(1,5,6),(2,9,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,9),(1,5,5),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,5),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,6),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,12),(1,5,6),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
```

12.15 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,11,12)); lvl=0; h,r-ind=12,72
  [3,3]((2,11,12),(1,3,3),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,3,3),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,11,12),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,11,12),(1,6,6),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,6,6),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

12.16 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,4,12)); lvl=0; h,r-ind=12,12
  [3,3]((3,4,6),(0,1,0),(1,0,0)); lvl=1; h,r-ind=6,6; optimized-h
  [4,3]((1,1,3),(3,4,6),(3,4,8),(1,0,0)); lvl=1; h,r-ind=2,4
    [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,7),(1,1,2),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(3,4,7),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,8),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,0,0),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,6),(2,3,6),(3,4,8),(0,1,0)); lvl=1; h,r-ind=2,1
    [3,3]((2,3,5),(2,3,6),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,5),(3,5,6),(0,1,0),(1,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,3),(1,2,2),(4,7,10),(0,1,0)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(0,1,0),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,10),(1,2,2),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(4,7,10),(2,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(3,5,6),(1,2,2)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,6),(2,3,5),(3,4,7),(3,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(3,4,7),(7,10,16)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,6),(2,3,4),(3,4,7),(7,10,16)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,11),(2,3,4),(7,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(3,4,7),(7,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(5,7,11),(3,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(5,7,11),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,5),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,6),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,8),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(2,3,5),(3,4,7)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,12),(2,3,6),(2,3,7),(0,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,10),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,7),(6,10,21),(3,5,10),(2,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,17),(6,10,21),(3,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(5,8,17),(3,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,6),(5,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(5,8,17),(6,10,21)); lvl=3; h,r-ind=1,1
    [4,3]((6,10,21),(1,2,4),(1,2,3),(3,5,10)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,3),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,10),(1,2,3),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,21),(3,5,10),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,21),(1,2,4),(4,7,14)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,7),(3,5,12),(6,10,21),(1,2,4)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,5,11),(3,5,12),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,21),(3,5,11),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(6,10,21),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(3,5,11),(3,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,12),(1,1,3),(3,5,12),(2,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,7),(1,1,3),(5,7,18)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(1,1,3),(5,7,18)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(3,4,12),(1,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,12),(2,3,8),(2,3,7),(5,7,18)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,8),(5,7,18),(4,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,18),(4,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,12),(2,3,7),(4,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,12),(2,3,8),(4,6,15)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,3),(2,3,6),(3,4,8),(2,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,9),(3,4,8),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,9),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,7),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,9),(3,4,8)); lvl=2; h,r-ind=1,1
```

12.17 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,5,12)); lvl=0; h,r-ind=12,48
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [5,3]((3,4,8),(2,3,4),(2,3,5),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,8),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,8),(2,3,4),(2,2,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((5,7,11),(6,8,13),(4,5,8),(2,3,4)); lvl=2; h,r-ind=1,1
      [4,3]((14,19,30),(3,4,6),(4,5,8),(6,8,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,12,19),(3,4,6),(4,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((9,12,19),(6,8,13),(4,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((14,19,30),(9,12,19),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((14,19,30),(9,12,19),(3,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(14,19,30),(6,8,13)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,11),(14,19,30),(3,4,6),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((14,19,30),(8,11,17),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(8,11,17),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(2,3,4),(8,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(14,19,30),(8,11,17)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,7),(6,8,13),(4,5,8),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,8),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,7),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,7),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,8),(7,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,8),(3,4,7),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,7),(5,7,11),(6,8,13),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((8,11,18),(5,7,11),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,7),(8,11,18),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(8,11,18),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,7),(2,3,5),(8,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,11),(2,3,4),(2,3,5)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((3,4,8),(3,4,7),(2,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,4),(1,2,3),(2,3,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,2),(2,3,4),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,4),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(1,2,2),(3,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(1,2,2),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=3; h,r-ind=1,1
  [6,3]((1,2,4),(3,4,8),(4,6,13),(5,7,15),(1,2,3),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,6),(5,7,15),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,5),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,13),(2,3,6),(5,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(4,6,13),(2,3,6)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,12),(2,3,7),(1,2,4),(4,6,13)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,7),(4,6,13),(3,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(4,6,13),(3,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,12),(2,3,7),(3,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,12),(3,5,11)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,7),(3,4,9),(4,6,13),(5,7,15)); lvl=1; h,r-ind=1,1
    [3,3]((7,10,22),(5,7,15),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(7,10,22),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,13),(7,10,22),(5,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(4,6,13),(7,10,22)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,4),(0,1,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,8),(3,4,9),(5,7,15),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,9),(5,7,15),(6,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(5,7,15),(6,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,8),(6,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,9),(6,8,17)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,4),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,9),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,7),(3,4,9),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,12),(2,3,7),(1,0,0)); lvl=1; h,r-ind=1,1
```

12.18 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,7,12)); lvl=0; h,r-ind=12,48
  [4,3]((1,0,0),(2,3,4),(2,2,3),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(5,6,8),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(1,2,2),(5,6,8),(2,3,4)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,5),(1,2,2),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(5,6,8),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,1),(2,2,3),(5,6,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,3,4),(1,1,1),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,3,4),(1,1,1)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,2,3),(3,8,12),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,2
    [3,3]((1,3,4),(2,5,6),(0,1,0)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((1,2,2),(2,5,6),(0,1,0)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((1,2,3),(1,3,4),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,2,3),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,4),(3,8,12)); lvl=2; h,r-ind=1,1
  [4,3]((3,6,10),(3,5,8),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,8),(2,2,3),(7,10,16)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,5),(2,2,3),(7,10,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,8),(2,3,5),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(2,2,3),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(4,5,8),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(4,5,8),(2,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((3,6,10),(2,3,5),(3,5,8),(7,10,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,8,13),(7,10,16),(2,3,5)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((3,6,10),(5,8,13),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,8),(3,6,10),(5,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,8),(5,8,13),(7,10,16)); lvl=3; h,r-ind=1,1
  [3,3]((3,7,12),(3,6,10),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,3),(2,3,4),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((3,7,12),(3,6,10),(1,2,3),(3,8,12)); lvl=1; h,r-ind=1,2
    [3,3]((5,11,18),(1,2,3),(3,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,12),(5,11,18),(3,6,10)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((2,5,8),(5,11,18),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,12),(2,5,8),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,12),(2,5,8),(5,11,18)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
  [4,3]((1,2,3),(3,5,8),(2,3,4),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,6),(2,2,3),(3,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,4,6),(3,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,4),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,6),(2,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((3,6,10),(1,2,3),(3,5,8)); lvl=1; h,r-ind=1,1
```

12.19 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,8,12)); lvl=0; h,r-ind=12,12
  [3,3]((1,2,2),(1,3,4),(0,1,0)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((1,0,0),(1,2,2),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,2),(1,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,8,12),(1,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
```

12.20 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,10,12)); lvl=0; h,r-ind=12,24
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,6),(3,7,8),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((3,6,7),(3,7,8),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,6,7),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(1,0,0),(3,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(3,6,7),(3,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,2),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((3,11,12),(1,2,2),(3,8,9),(0,1,0)); lvl=1; h,r-ind=3,3
    [3,3]((1,2,2),(1,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,4),(1,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((3,11,12),(1,4,4),(6,19,21),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(1,4,4),(5,17,18)); lvl=3; h,r-ind=1,1
      [4,3]((3,11,12),(3,10,11),(1,4,4),(5,17,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,14,15),(5,17,18),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,12),(4,14,15),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,15),(1,4,4),(5,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,12),(4,14,15),(1,4,4)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,11),(1,3,3),(5,17,18)); lvl=3; h,r-ind=1,1
      [3,3]((6,19,21),(3,10,11),(1,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,9),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((6,19,21),(3,8,9),(1,3,3)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((3,10,12),(3,11,12),(3,8,9)); lvl=1; h,r-ind=9,3; optimized-h
  [4,3]((1,2,2),(3,8,9),(3,7,8),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,9),(3,7,8),(4,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,7,8),(4,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,1,1),(4,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(3,8,9),(4,9,10)); lvl=2; h,r-ind=1,1
  [4,3]((3,10,12),(2,5,6),(3,8,9),(3,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(3,7,8),(7,18,21)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,7),(3,8,9),(3,7,8),(7,18,21)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,13,15),(3,7,8),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(5,13,15),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((7,18,21),(5,13,15),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(7,18,21),(5,13,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,7),(2,5,6),(7,18,21)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,12),(2,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
```

12.21 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,11,12)); lvl=0; h,r-ind=12,48
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,11,12),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,11,12),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,11,12),(1,4,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

12.22 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,5,12)); lvl=0; h,r-ind=12,36
  [3,3]((2,2,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,4,9),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,12),(4,4,9),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((4,5,12),(4,4,9),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,6),(1,1,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,5,12),(2,3,6),(1,1,2)); lvl=1; h,r-ind=2,2; optimized-h
```

12.23 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,7,12)); lvl=0; h,r-ind=12,36
  [4,3]((7,9,14),(2,2,3),(2,3,5),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(1,0,0),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(1,0,0),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,14),(2,2,3),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(7,9,14),(4,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((4,7,12),(2,3,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((4,5,7),(2,3,3),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,2,3),(8,9,12),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,3,4),(1,1,1),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,3,4),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,3,4),(1,0,0)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,5),(5,6,8),(8,9,12),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,9),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(6,7,9),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,9),(1,1,1),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(6,7,9),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,7),(2,2,3),(5,6,8),(8,9,12)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,3),(8,9,12),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(8,9,12),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(5,6,8),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(2,2,3),(7,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(4,5,7),(5,6,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,2,3),(3,4,6),(7,9,14),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((5,7,11),(3,4,6),(7,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(5,7,11),(7,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(5,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(5,7,11),(3,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((4,7,12),(1,2,3),(2,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,6),(4,5,7),(7,9,14),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(4,5,7),(5,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(4,5,7),(5,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(7,9,14),(5,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,14),(2,2,3),(5,6,9)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,3),(3,4,6),(4,5,7),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,4),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,7),(3,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(4,5,7),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,1
```

12.24 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,9,12)); lvl=0; h,r-ind=12,12
  [4,3]((3,5,6),(4,7,8),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,8),(2,3,3),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,7,8),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,5,6),(5,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,5,6),(4,7,8),(2,3,3)); lvl=1; h,r-ind=2,4
    [3,3]((1,2,2),(3,6,7),(4,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(4,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,5,6),(3,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,5,6),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(0,1,0),(1,2,2)); lvl=2; h,r-ind=1,1
  [4,3]((5,9,12),(1,0,0),(3,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,4),(8,12,15),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((8,12,15),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(1,0,0),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(8,12,15),(3,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,6),(8,12,15),(5,8,10),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((6,9,11),(5,8,10),(8,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(6,9,11),(8,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(6,9,11),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,5,6),(6,9,11)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,9),(2,3,4),(8,12,15),(5,8,10)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(8,12,15),(7,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,10),(8,12,15),(7,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,9),(5,8,10),(7,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,9),(2,3,4),(7,11,14)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,9),(5,9,12),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,7,9),(5,8,10)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [5,3]((4,9,12),(5,9,12),(2,5,6),(3,5,6),(4,7,8)); lvl=1; h,r-ind=2,1
    [3,3]((2,4,5),(3,5,6),(4,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((5,9,12),(3,6,8),(2,4,5),(4,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,6,8),(2,4,5),(7,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,9),(2,4,5),(7,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,12),(3,6,8),(7,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,9),(5,9,12),(7,13,17)); lvl=3; h,r-ind=1,1
    [4,3]((4,9,12),(3,6,8),(3,7,9),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,5),(3,6,8),(6,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,12),(3,6,8),(6,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(4,9,12),(6,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,4,5),(6,13,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(3,7,9),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(4,7,8),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,6,7),(4,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(2,4,5),(3,6,7)); lvl=2; h,r-ind=1,1
```

12.25 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,11,12)); lvl=0; h,r-ind=12,36
  [3,3]((2,3,3),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(2,3,3),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,11,12),(1,3,3),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,11,12),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,11,12),(1,1,1)); lvl=1; h,r-ind=1,1
```

12.26 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,5,12)); lvl=0; h,r-ind=12,144
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((4,4,9),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,4,9),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((4,4,9),(3,3,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,12),(3,3,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,4,9),(3,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,12),(0,1,0),(3,3,7)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((0,1,0),(1,0,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
```

12.27 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,6,12)); lvl=0; h,r-ind=12,24
  [3,3]((0,1,0),(2,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,2),(2,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,2,2),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(4,6,9),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(5,6,12),(4,6,9)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,6,9),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,12),(4,6,9),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
```

12.28 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,8,12)); lvl=0; h,r-ind=12,36
  [4,3]((3,4,6),(1,1,1),(2,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(1,1,1),(5,6,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,2,3),(1,1,1),(5,6,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,6),(2,2,3),(2,3,4),(5,6,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,2,3),(5,6,8),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(5,6,8),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(2,2,3),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,6),(4,5,7)); lvl=3; h,r-ind=1,1
  [4,3]((5,8,12),(3,5,7),(3,4,6),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,7),(9,14,20),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,9),(3,4,6),(9,14,20),(2,3,4)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,9,13),(3,4,6),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((9,14,20),(6,9,13),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(9,14,20),(6,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(6,9,13),(3,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((5,8,12),(4,6,9),(3,5,7),(9,14,20)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,11,16),(4,6,9),(9,14,20)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,16),(3,5,7),(9,14,20)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(7,11,16),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(7,11,16),(4,6,9)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,6),(1,1,1),(2,3,3),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(1,1,1),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(2,3,4),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(2,3,3),(4,6,7)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,7),(4,7,9),(3,5,6),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((6,10,13),(3,5,6),(4,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,7),(6,10,13),(4,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,5,7),(6,10,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(6,10,13),(3,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(4,7,9),(3,5,6)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,5,7),(0,1,0),(4,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((5,8,12),(3,5,7),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,5,6),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
```

12.29 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,10,12)); lvl=0; h,r-ind=12,72
  [4,3]((4,7,8),(5,9,10),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((5,9,10),(2,3,3),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(5,9,10),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(4,7,8),(6,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(3,5,6),(4,7,8),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,7),(3,5,6),(4,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,7),(1,1,1),(4,7,8)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,0,0),(4,6,7),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(4,6,7),(3,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((5,10,12),(3,6,7),(3,5,6),(4,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((3,6,7),(4,7,8),(6,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,7,8),(6,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,12),(3,6,7),(6,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(5,10,12),(6,11,13)); lvl=2; h,r-ind=1,1
  [4,3]((3,6,7),(4,8,9),(4,7,8),(5,9,10)); lvl=1; h,r-ind=1,1
    [3,3]((8,15,17),(5,9,10),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(8,15,17),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(8,15,17),(5,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(4,7,8),(8,15,17)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,6,7),(4,8,9)); lvl=1; h,r-ind=1,1
  [3,3]((5,10,12),(0,1,0),(3,6,7)); lvl=1; h,r-ind=1,1
  [4,3]((4,8,9),(1,2,2),(5,9,10),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((6,11,12),(2,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,9),(6,11,12),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,10),(6,11,12),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,9),(5,9,10),(6,11,12)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,8,9),(1,2,2)); lvl=1; h,r-ind=1,1
```

12.30 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,7,12)); lvl=0; h,r-ind=12,24
  [4,3]((0,1,0),(3,4,6),(1,1,1),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(2,2,3),(6,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,6),(3,5,6),(2,2,3),(6,7,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((2,2,3),(9,11,15),(3,4,5),(6,7,9)); lvl=3; h,r-ind=1,3
        [3,3]((5,6,8),(3,4,5),(9,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(5,6,8),(9,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,9),(5,6,8),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(6,7,9),(5,6,8)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,4),(3,4,6),(2,2,3),(9,11,15)); lvl=3; h,r-ind=1,3
        [3,3]((3,4,6),(4,5,7),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,15),(4,5,7),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(9,11,15),(4,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,6),(4,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(9,11,15),(3,4,5)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,3,4),(3,5,6),(3,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(3,5,6),(1,1,1),(6,7,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,1,1),(6,8,9),(3,4,5),(6,7,9)); lvl=3; h,r-ind=1,3
        [3,3]((6,8,9),(4,5,6),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,9),(4,5,6),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(6,7,9),(4,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(6,8,9),(4,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(6,8,9),(3,4,5)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((1,2,2),(3,5,6),(3,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(0,1,0),(1,2,2),(6,8,9)); lvl=3; h,r-ind=1,3
        [3,3]((2,3,3),(0,1,0),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,9),(2,3,3),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(6,8,9),(2,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(2,3,3),(0,1,0)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((6,7,12),(3,3,5),(3,4,6),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,3,5),(2,2,3),(12,13,21)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,6),(9,11,18),(2,2,3),(12,13,21)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((2,2,3),(15,17,27),(7,8,13),(12,13,21)); lvl=3; h,r-ind=1,3
        [3,3]((9,10,16),(7,8,13),(15,17,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(9,10,16),(15,17,27)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,21),(9,10,16),(7,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(12,13,21),(9,10,16)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(15,17,27),(7,8,13)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((9,11,18),(4,5,8),(7,8,13)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,6),(2,2,3),(4,5,8),(15,17,27)); lvl=3; h,r-ind=1,3
        [3,3]((2,2,3),(15,17,27),(6,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(15,17,27),(6,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(2,2,3),(6,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(3,4,6),(6,7,11)); lvl=4; h,r-ind=1,1
    [4,3]((6,7,12),(9,11,18),(3,3,5),(12,13,21)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((3,3,5),(18,20,33),(7,8,13),(12,13,21)); lvl=3; h,r-ind=1,3
        [3,3]((7,8,13),(18,20,33),(10,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,5),(18,20,33),(10,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,21),(7,8,13),(10,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,5),(12,13,21),(10,11,18)); lvl=4; h,r-ind=1,1
      [4,3]((5,6,10),(6,7,12),(3,3,5),(18,20,33)); lvl=3; h,r-ind=1,3
```

```
        [3,3]((3,3,5),(8,9,15),(6,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,10),(8,9,15),(6,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((18,20,33),(3,3,5),(8,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,10),(18,20,33),(8,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,10),(18,20,33),(7,8,13)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((5,6,10),(9,11,18),(7,8,13)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,5),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(6,7,12),(3,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

12.31 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,11,12)); lvl=0; h,r-ind=12,24
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((6,11,12),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((6,11,12),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
```

12.32 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,7,12)); lvl=0; h,r-ind=12,144
  [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,5),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,5),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,7,12),(0,1,0),(3,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((7,7,12),(3,3,5),(1,0,0)); lvl=1; h,r-ind=1,1
```

12.33 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,9,12)); lvl=0; h,r-ind=12,48
  [4,3]((7,9,12),(8,9,12),(4,5,6),(3,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((9,11,14),(6,7,9),(4,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,5),(9,11,14),(17,21,27),(4,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((17,21,27),(12,15,19),(9,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(12,15,19),(9,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(4,5,6),(12,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(17,21,27),(12,15,19)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,8),(7,9,12),(3,4,5),(17,21,27)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,4,5),(8,10,13),(7,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(8,10,13),(7,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((17,21,27),(3,4,5),(8,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(17,21,27),(8,10,13)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,8),(9,11,14),(17,21,27),(6,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((14,17,22),(17,21,27),(9,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,9),(14,17,22),(9,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(6,7,9),(14,17,22)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(14,17,22),(17,21,27)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,8),(6,7,9),(8,9,12)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,3),(4,5,6),(3,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(3,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((7,9,12),(0,1,0),(3,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(2,3,3),(4,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,1),(1,0,0),(8,9,12),(4,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((8,9,12),(6,7,9),(3,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((11,12,15),(7,8,10),(6,7,9),(3,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((7,8,10),(6,7,9),(10,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(6,7,9),(10,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((11,12,15),(7,8,10),(10,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(11,12,15),(10,11,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(1,0,0),(11,12,15),(3,3,4)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,3,4),(1,0,0),(4,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(4,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((11,12,15),(3,3,4),(4,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(11,12,15),(4,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,6),(1,1,1),(11,12,15),(7,8,10)); lvl=2; h,r-ind=1,1
      [3,3]((8,9,11),(11,12,15),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(8,9,11),(1,1,1)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((7,8,10),(8,9,11),(11,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,10),(4,5,6),(8,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,6),(7,8,10),(6,7,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
```

12.34 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,9,12)); lvl=0; h,r-ind=12,12
  [3,3]((3,3,4),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((8,9,12),(3,3,4),(4,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(3,3,4),(10,11,14)); lvl=2; h,r-ind=1,1
    [4,3]((6,7,9),(8,9,12),(3,3,4),(10,11,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((9,10,13),(8,9,12),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((10,11,14),(9,10,13),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,9),(10,11,14),(9,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,9),(9,10,13),(8,9,12)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,6),(6,7,9),(1,1,1),(10,11,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,8,10),(6,7,9),(10,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(7,8,10),(10,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(7,8,10),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(4,5,6),(7,8,10)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(4,5,6),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
```

12.35 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,11,12)); lvl=0; h,r-ind=12,36
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((8,11,12),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(2,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((8,11,12),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
```

12.36 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,10,12)); lvl=0; h,r-ind=12,24
  [3,3]((9,10,12),(1,1,1),(9,11,12)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,1,1),(9,11,12)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((9,10,12),(5,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(5,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
```

12.37 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,11,12)); lvl=0; h,r-ind=12,48
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((9,11,12),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((9,11,12),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
```

12.38 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,11,12)); lvl=0; h,r-ind=12,72
  [3,3]((10,11,12),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((10,11,12),(5,6,6),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,6,6),(1,1,1)); lvl=1; h,r-ind=1,1
```

12.39 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,11,12)); lvl=0; h,r-ind=12,144
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((11,11,12),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((11,11,12),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

12.40 Resolved

```
[3,3]((1,0,0),(1,2,0),(1,0,6)); lvl=0; h,r-ind=12,6
  [4,3]((1,0,3),(2,2,3),(1,1,0),(1,0,0)); lvl=1; h,r-ind=3,1
    [3,3]((1,0,3),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,3),(2,0,3),(1,1,1)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((1,0,0),(2,0,3),(1,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(1,1,0),(3,2,2)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(1,0,1),(1,1,0),(3,2,2)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,1,1),(1,0,1),(3,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,1,1),(1,1,0),(3,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(2,1,1),(1,1,0)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(2,1,1),(1,0,1)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,1),(1,1,1),(3,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,1),(2,0,3),(1,1,1)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,3),(1,0,6),(1,0,3),(2,2,3)); lvl=1; h,r-ind=3,1
    [3,3]((1,1,2),(1,0,3),(2,0,9)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((1,1,3),(1,1,2),(1,0,6),(2,0,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(1,0,5),(2,0,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,2,10),(1,0,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,3),(3,2,10),(1,0,6),(1,0,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,0,5),(2,1,8),(1,0,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(2,1,8),(1,0,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,2,10),(1,0,5),(2,1,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(3,2,10),(2,1,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,1,3),(3,2,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(1,1,2),(1,0,3)); lvl=2; h,r-ind=1,1
  [3,3]((2,2,3),(1,2,0),(1,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,3),(2,2,3),(1,2,0)); lvl=1; h,r-ind=3,3; optimized-h
```

12.41 Resolved

```
[3,3]((1,0,0),(1,2,0),(1,4,6)); lvl=0; h,r-ind=12,18
  [3,3]((1,2,2),(1,2,0),(1,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,2),(1,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,2),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,4,6),(1,2,2),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,3,3),(1,2,2),(1,2,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,4,6),(1,3,3),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

12.42 Resolved

```
[3,3]((1,0,0),(1,2,0),(3,2,6)); lvl=0; h,r-ind=12,18
  [6,3]((2,1,3),(4,3,6),(3,2,5),(3,2,3),(4,3,5),(2,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((3,2,4),(2,1,3),(3,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,3,6),(3,2,4),(3,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,3,6),(3,2,4),(4,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,2,4),(2,1,2),(2,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,2,4),(3,2,3),(2,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,2,4),(4,3,5),(3,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,1,3),(2,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((3,2,6),(2,1,3),(3,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(4,3,6),(4,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((2,2,3),(3,2,6),(1,1,1),(4,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((4,3,7),(3,2,6),(4,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(4,3,7),(4,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(1,1,1),(4,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(4,3,7),(3,2,6)); lvl=2; h,r-ind=1,1
  [3,3]((3,2,6),(4,3,6),(3,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,2,3),(2,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(3,2,3),(4,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,1),(1,0,0),(1,1,0),(3,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,0),(1,0,0),(2,1,1)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((3,2,3),(1,0,0),(2,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,1,0),(2,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((3,2,3),(1,1,1),(2,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,0),(1,1,1),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(1,2,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

12.43 Resolved

```
[3,3]((1,0,0),(1,2,0),(5,0,6)); lvl=0; h,r-ind=12,6
  [3,3]((1,1,0),(1,0,1),(2,2,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,1,3),(1,0,1),(2,2,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,0),(3,1,3),(2,2,1)); lvl=1; h,r-ind=1,1
  [3,3]((5,0,6),(3,1,3),(1,0,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,0),(1,1,0),(2,2,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,0),(1,0,1)); lvl=1; h,r-ind=1,1
```

13 H-index = 13

13.0 Classification

```
[3,3]((1,0,0),(0,1,0),(0,1,13))
  [3,3]((1,0,0),(0,1,0),(0,1,13))
  [3,3]((1,0,0),(0,1,0),(1,0,13))
  [3,3]((1,0,0),(1,13,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,2,13))
  [3,3]((1,0,0),(0,1,0),(0,2,13))
  [3,3]((1,0,0),(0,1,0),(0,7,13))
  [3,3]((1,0,0),(0,1,0),(2,0,13))
  [3,3]((1,0,0),(0,1,0),(7,0,13))
  [3,3]((1,0,0),(2,13,0),(0,0,1))
  [3,3]((1,0,0),(7,13,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,3,13))
  [3,3]((1,0,0),(0,1,0),(0,3,13))
  [3,3]((1,0,0),(0,1,0),(0,9,13))
  [3,3]((1,0,0),(0,1,0),(3,0,13))
  [3,3]((1,0,0),(0,1,0),(9,0,13))
  [3,3]((1,0,0),(3,13,0),(0,0,1))
  [3,3]((1,0,0),(9,13,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,4,13))
  [3,3]((1,0,0),(0,1,0),(0,4,13))
  [3,3]((1,0,0),(0,1,0),(0,10,13))
  [3,3]((1,0,0),(0,1,0),(4,0,13))
  [3,3]((1,0,0),(0,1,0),(10,0,13))
  [3,3]((1,0,0),(4,13,0),(0,0,1))
  [3,3]((1,0,0),(10,13,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,5,13))
  [3,3]((1,0,0),(0,1,0),(0,5,13))
  [3,3]((1,0,0),(0,1,0),(0,8,13))
  [3,3]((1,0,0),(0,1,0),(5,0,13))
  [3,3]((1,0,0),(0,1,0),(8,0,13))
  [3,3]((1,0,0),(5,13,0),(0,0,1))
  [3,3]((1,0,0),(8,13,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,6,13))
  [3,3]((1,0,0),(0,1,0),(0,6,13))
  [3,3]((1,0,0),(0,1,0),(0,11,13))
  [3,3]((1,0,0),(0,1,0),(6,0,13))
  [3,3]((1,0,0),(0,1,0),(11,0,13))
  [3,3]((1,0,0),(6,13,0),(0,0,1))
  [3,3]((1,0,0),(11,13,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,12,13))
  [3,3]((1,0,0),(0,1,0),(0,12,13))
  [3,3]((1,0,0),(0,1,0),(12,0,13))
  [3,3]((1,0,0),(12,13,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(1,1,13))
  [3,3]((1,0,0),(0,1,0),(1,1,13))
  [3,3]((1,0,0),(0,1,0),(1,12,13))
  [3,3]((1,0,0),(0,1,0),(12,1,13))
[3,3]((1,0,0),(0,1,0),(1,2,13))
  [3,3]((1,0,0),(0,1,0),(1,2,13))
  [3,3]((1,0,0),(0,1,0),(1,11,13))
  [3,3]((1,0,0),(0,1,0),(2,1,13))
  [3,3]((1,0,0),(0,1,0),(6,7,13))
```

```
  [3,3]((1,0,0),(0,1,0),(7,6,13))
  [3,3]((1,0,0),(0,1,0),(11,1,13))
[3,3]((1,0,0),(0,1,0),(1,3,13))
  [3,3]((1,0,0),(0,1,0),(1,3,13))
  [3,3]((1,0,0),(0,1,0),(1,10,13))
  [3,3]((1,0,0),(0,1,0),(3,1,13))
  [3,3]((1,0,0),(0,1,0),(4,9,13))
  [3,3]((1,0,0),(0,1,0),(9,4,13))
  [3,3]((1,0,0),(0,1,0),(10,1,13))
[3,3]((1,0,0),(0,1,0),(1,4,13))
  [3,3]((1,0,0),(0,1,0),(1,4,13))
  [3,3]((1,0,0),(0,1,0),(1,9,13))
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  [3,3]((1,0,0),(0,1,0),(4,1,13))
  [3,3]((1,0,0),(0,1,0),(9,1,13))
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[3,3]((1,0,0),(0,1,0),(1,5,13))
  [3,3]((1,0,0),(0,1,0),(1,5,13))
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  [3,3]((1,0,0),(0,1,0),(5,1,13))
  [3,3]((1,0,0),(0,1,0),(5,8,13))
  [3,3]((1,0,0),(0,1,0),(8,1,13))
  [3,3]((1,0,0),(0,1,0),(8,5,13))
[3,3]((1,0,0),(0,1,0),(1,6,13))
  [3,3]((1,0,0),(0,1,0),(1,6,13))
  [3,3]((1,0,0),(0,1,0),(1,7,13))
  [3,3]((1,0,0),(0,1,0),(2,11,13))
  [3,3]((1,0,0),(0,1,0),(6,1,13))
  [3,3]((1,0,0),(0,1,0),(7,1,13))
  [3,3]((1,0,0),(0,1,0),(11,2,13))
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  [3,3]((1,0,0),(0,1,0),(2,2,13))
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  [3,3]((1,0,0),(0,1,0),(5,7,13))
  [3,3]((1,0,0),(0,1,0),(7,5,13))
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  [3,3]((1,0,0),(0,1,0),(2,4,13))
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  [3,3]((1,0,0),(0,1,0),(6,10,13))
  [3,3]((1,0,0),(0,1,0),(7,11,13))
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[3,3]((1,0,0),(0,1,0),(2,10,13))
  [3,3]((1,0,0),(0,1,0),(2,10,13))
  [3,3]((1,0,0),(0,1,0),(4,5,13))
  [3,3]((1,0,0),(0,1,0),(5,4,13))
```

```
  [3,3]((1,0,0),(0,1,0),(7,8,13))
  [3,3]((1,0,0),(0,1,0),(8,7,13))
  [3,3]((1,0,0),(0,1,0),(10,2,13))
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  [3,3]((1,0,0),(0,1,0),(2,12,13))
  [3,3]((1,0,0),(0,1,0),(7,7,13))
  [3,3]((1,0,0),(0,1,0),(12,2,13))
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  [3,3]((1,0,0),(0,1,0),(3,3,13))
  [3,3]((1,0,0),(0,1,0),(9,12,13))
  [3,3]((1,0,0),(0,1,0),(12,9,13))
[3,3]((1,0,0),(0,1,0),(3,4,13))
  [3,3]((1,0,0),(0,1,0),(3,4,13))
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  [3,3]((1,0,0),(0,1,0),(9,3,13))
  [3,3]((1,0,0),(0,1,0),(9,10,13))
  [3,3]((1,0,0),(0,1,0),(10,9,13))
[3,3]((1,0,0),(0,1,0),(3,6,13))
  [3,3]((1,0,0),(0,1,0),(3,6,13))
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  [3,3]((1,0,0),(0,1,0),(6,11,13))
  [3,3]((1,0,0),(0,1,0),(9,11,13))
  [3,3]((1,0,0),(0,1,0),(11,6,13))
  [3,3]((1,0,0),(0,1,0),(11,9,13))
[3,3]((1,0,0),(0,1,0),(3,8,13))
  [3,3]((1,0,0),(0,1,0),(3,8,13))
  [3,3]((1,0,0),(0,1,0),(5,11,13))
  [3,3]((1,0,0),(0,1,0),(6,9,13))
  [3,3]((1,0,0),(0,1,0),(8,3,13))
  [3,3]((1,0,0),(0,1,0),(9,6,13))
  [3,3]((1,0,0),(0,1,0),(11,5,13))
[3,3]((1,0,0),(0,1,0),(3,11,13))
  [3,3]((1,0,0),(0,1,0),(3,11,13))
  [3,3]((1,0,0),(0,1,0),(5,9,13))
  [3,3]((1,0,0),(0,1,0),(6,8,13))
  [3,3]((1,0,0),(0,1,0),(8,6,13))
  [3,3]((1,0,0),(0,1,0),(9,5,13))
  [3,3]((1,0,0),(0,1,0),(11,3,13))
[3,3]((1,0,0),(0,1,0),(3,12,13))
  [3,3]((1,0,0),(0,1,0),(3,12,13))
  [3,3]((1,0,0),(0,1,0),(9,9,13))
  [3,3]((1,0,0),(0,1,0),(12,3,13))
[3,3]((1,0,0),(0,1,0),(4,4,13))
  [3,3]((1,0,0),(0,1,0),(4,4,13))
  [3,3]((1,0,0),(0,1,0),(10,12,13))
  [3,3]((1,0,0),(0,1,0),(12,10,13))
[3,3]((1,0,0),(0,1,0),(4,6,13))
  [3,3]((1,0,0),(0,1,0),(4,6,13))
  [3,3]((1,0,0),(0,1,0),(5,10,13))
  [3,3]((1,0,0),(0,1,0),(6,4,13))
  [3,3]((1,0,0),(0,1,0),(8,11,13))
  [3,3]((1,0,0),(0,1,0),(10,5,13))
  [3,3]((1,0,0),(0,1,0),(11,8,13))
[3,3]((1,0,0),(0,1,0),(4,8,13))
  [3,3]((1,0,0),(0,1,0),(4,8,13))
  [3,3]((1,0,0),(0,1,0),(5,6,13))
  [3,3]((1,0,0),(0,1,0),(6,5,13))
  [3,3]((1,0,0),(0,1,0),(8,4,13))
  [3,3]((1,0,0),(0,1,0),(10,11,13))
  [3,3]((1,0,0),(0,1,0),(11,10,13))
[3,3]((1,0,0),(0,1,0),(4,10,13))
  [3,3]((1,0,0),(0,1,0),(4,10,13))
  [3,3]((1,0,0),(0,1,0),(10,4,13))
[3,3]((1,0,0),(0,1,0),(4,12,13))
  [3,3]((1,0,0),(0,1,0),(4,12,13))
  [3,3]((1,0,0),(0,1,0),(10,10,13))
  [3,3]((1,0,0),(0,1,0),(12,4,13))
[3,3]((1,0,0),(0,1,0),(5,5,13))
  [3,3]((1,0,0),(0,1,0),(5,5,13))
  [3,3]((1,0,0),(0,1,0),(8,12,13))
  [3,3]((1,0,0),(0,1,0),(12,8,13))
[3,3]((1,0,0),(0,1,0),(5,12,13))
  [3,3]((1,0,0),(0,1,0),(5,12,13))
  [3,3]((1,0,0),(0,1,0),(8,8,13))
  [3,3]((1,0,0),(0,1,0),(12,5,13))
[3,3]((1,0,0),(0,1,0),(6,6,13))
  [3,3]((1,0,0),(0,1,0),(6,6,13))
  [3,3]((1,0,0),(0,1,0),(11,12,13))
  [3,3]((1,0,0),(0,1,0),(12,11,13))
```

```
[3,3]((1,0,0),(0,1,0),(6,12,13))
  [3,3]((1,0,0),(0,1,0),(6,12,13))
  [3,3]((1,0,0),(0,1,0),(11,11,13))
  [3,3]((1,0,0),(0,1,0),(12,6,13))
[3,3]((1,0,0),(0,1,0),(12,12,13))
  [3,3]((1,0,0),(0,1,0),(12,12,13))
```

13.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,13)); lvl=0; h,r-ind=13,13
  [3,3]((1,0,0),(0,2,13),(0,1,0)); lvl=1; h,r-ind=13,13
    [3,3]((1,0,0),(0,1,6),(0,2,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,2,7),(0,1,6)); lvl=2; h,r-ind=5,5; optimized-h
    [3,3]((1,0,0),(0,1,0),(0,2,7)); lvl=2; h,r-ind=7,7; optimized-h
  [3,3]((1,0,0),(0,1,13),(0,2,13)); lvl=1; h,r-ind=13,13
    [3,3]((1,0,0),(0,1,13),(0,2,19)); lvl=2; h,r-ind=7,7; optimized-h
    [3,3]((1,0,0),(0,1,7),(0,2,19)); lvl=2; h,r-ind=5,5; optimized-h
    [3,3]((1,0,0),(0,1,7),(0,2,13)); lvl=2; h,r-ind=1,1
```

13.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,2,13)); lvl=0; h,r-ind=13,13
  [3,3]((1,0,0),(0,1,6),(0,2,13)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,2,7),(0,1,6)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,1,0),(0,2,7)); lvl=1; h,r-ind=7,7; optimized-h
```

13.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,3,13)); lvl=0; h,r-ind=13,13
  [3,3]((1,0,0),(0,1,0),(0,2,5)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,1,4),(0,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,3,13),(0,1,4)); lvl=1; h,r-ind=1,1
```

13.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,4,13)); lvl=0; h,r-ind=13,13
  [3,3]((1,0,0),(0,1,3),(0,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,1,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,4,13),(0,1,3)); lvl=1; h,r-ind=1,1
```

13.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,5,13)); lvl=0; h,r-ind=13,13
  [3,3]((1,0,0),(0,2,3),(0,3,7)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,2,5),(0,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,5,13),(0,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
```

13.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,6,13)); lvl=0; h,r-ind=13,13
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,2),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,2),(0,6,13)); lvl=1; h,r-ind=1,1
```

13.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,12,13)); lvl=0; h,r-ind=13,13
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,1),(0,12,13)); lvl=1; h,r-ind=1,1
```

13.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,13)); lvl=0; h,r-ind=13,169
  [3,3]((2,2,13),(1,1,12),(1,0,0)); lvl=1; h,r-ind=11,11; optimized-h
  [3,3]((1,1,13),(1,1,12),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,13),(1,0,0)); lvl=1; h,r-ind=13,169
    [3,3]((2,2,7),(0,1,0),(1,1,6)); lvl=2; h,r-ind=5,5; optimized-h
    [3,3]((2,2,13),(0,1,0),(1,1,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,7),(1,1,6)); lvl=2; h,r-ind=5,5; optimized-h
    [3,3]((2,2,13),(1,0,0),(1,1,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,7),(0,1,0)); lvl=2; h,r-ind=7,49; optimized-h
  [3,3]((0,1,0),(2,2,13),(1,1,12)); lvl=1; h,r-ind=11,11; optimized-h
  [3,3]((1,1,13),(0,1,0),(1,1,12)); lvl=1; h,r-ind=1,1
```

13.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,13)); lvl=0; h,r-ind=13,169
  [5,3]((1,2,11),(1,1,6),(2,3,18),(2,4,13),(2,2,7)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,17),(4,6,27),(2,2,9),(1,1,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,5),(3,4,18),(2,2,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,14),(1,1,5),(3,4,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,14),(4,6,27),(3,4,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,14),(2,3,15),(1,1,5)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,17),(2,3,15),(1,1,6),(1,1,5)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,6),(1,1,5),(4,5,27)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,16),(2,3,15),(1,1,5),(4,5,27)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,21),(1,1,5),(2,3,15)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,16),(3,4,21),(2,3,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,27),(3,4,21),(1,1,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,16),(4,5,27),(3,4,21)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,17),(2,3,16),(1,1,6),(4,5,27)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,22),(4,5,27),(2,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,17),(3,4,22),(2,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(2,3,17),(3,4,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(3,4,22),(4,5,27)); lvl=5; h,r-ind=1,1
    [3,3]((2,3,17),(2,3,18),(1,1,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,11),(2,3,17),(2,3,18)); lvl=2; h,r-ind=1,1
    [5,3]((2,4,17),(4,6,27),(1,2,7),(1,1,4),(2,2,9)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,18),(2,3,13),(4,6,27),(3,5,22)); lvl=3; h,r-ind=1,1
        [3,3]((6,9,40),(3,5,22),(2,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,18),(6,9,40),(2,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,27),(6,9,40),(3,5,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,18),(4,6,27),(6,9,40)); lvl=4; h,r-ind=1,1
      [4,3]((2,4,17),(1,2,8),(2,3,13),(3,5,22)); lvl=3; h,r-ind=1,1
        [3,3]((4,7,30),(1,2,8),(2,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,22),(4,7,30),(2,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,17),(3,5,22),(4,7,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,17),(4,7,30),(1,2,8)); lvl=4; h,r-ind=1,1
      [4,3]((2,2,9),(3,4,18),(3,4,17),(2,3,13)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,18),(4,5,22),(2,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,17),(4,5,22),(2,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,9),(3,4,17),(4,5,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,9),(3,4,18),(4,5,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(3,4,17),(2,3,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(2,2,9),(3,4,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,7),(1,2,8),(1,1,4),(3,4,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,8),(3,4,17),(2,3,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(3,4,17),(2,3,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(1,2,8),(2,3,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(1,2,7),(2,3,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,7),(2,3,10),(1,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(2,2,7),(1,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,7),(2,4,13),(2,3,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,11),(2,3,17),(2,4,17),(4,6,27)); lvl=2; h,r-ind=1,1
      [4,3]((2,4,19),(1,2,9),(2,3,14),(2,3,15)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,9),(3,5,24),(2,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,15),(3,5,24),(2,3,14)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,4,19),(1,2,9),(3,5,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,15),(2,4,19),(3,5,24)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,11),(2,4,19),(2,3,17),(2,3,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,10),(2,3,16),(2,3,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,19),(1,2,10),(2,3,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,11),(1,2,10),(2,3,16),(2,3,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,10),(2,3,16),(3,5,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,17),(2,3,16),(3,5,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,11),(1,2,10),(3,5,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,17),(1,2,11),(3,5,27)); lvl=5; h,r-ind=1,1
    [3,3]((3,5,22),(1,2,9),(2,3,14)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,22),(4,6,27),(2,3,14)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,22),(2,4,17),(1,2,9)); lvl=3; h,r-ind=1,1
[4,3]((0,1,0),(1,0,0),(2,4,13),(2,2,7)); lvl=1; h,r-ind=1,1
  [4,3]((2,4,13),(1,2,6),(2,3,9),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(3,5,16),(2,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(3,5,16),(2,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,13),(1,2,6),(3,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(2,4,13),(3,5,16)); lvl=3; h,r-ind=1,1
  [4,3]((2,2,7),(1,1,3),(2,3,9),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,13),(2,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(3,4,13),(2,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,7),(1,1,3),(3,4,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(2,2,7),(3,4,13)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,7),(1,1,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,4,7),(1,0,0),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(1,1,2),(2,2,3),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(2,2,3),(3,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,2),(3,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(1,2,3),(3,4,6)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,2),(2,2,3),(2,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(1,1,1),(2,3,4),(5,6,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(3,4,5),(1,1,1)); lvl=5; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(5,6,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,3),(1,1,1),(5,6,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=5; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,2),(1,2,3),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(1,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,7),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=3; h,r-ind=1,1
  [3,3]((2,4,13),(0,1,0),(1,2,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,6),(2,3,9),(1,2,5)); lvl=2; h,r-ind=1,1
  [5,3]((2,4,7),(1,1,3),(1,1,2),(2,3,9),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,4),(2,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,12),(2,3,7),(1,1,2),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(2,3,7),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,9),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,12),(1,1,2),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,12),(3,4,9),(2,3,7)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,8),(2,3,7),(1,2,5),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,5),(3,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,8),(1,2,5),(3,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,8),(3,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(1,2,4),(3,5,12)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,9),(2,3,8),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,9),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(4,5,12),(1,1,2)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,3),(2,3,8),(4,5,12),(2,3,7)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,8),(3,4,10),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,12),(3,4,10),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,12),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,8),(3,4,10)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,7),(1,2,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,1,6),(2,2,7)); lvl=1; h,r-ind=5,5; optimized-h
[3,3]((1,2,13),(1,0,0),(1,1,6)); lvl=1; h,r-ind=1,1
[3,3]((1,2,13),(1,1,6),(2,3,18)); lvl=1; h,r-ind=1,1
[3,3]((0,1,0),(1,2,11),(2,4,13)); lvl=1; h,r-ind=9,9; optimized-h
[3,3]((1,2,13),(0,1,0),(1,2,11)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((1,2,13),(1,2,11),(2,3,18)); lvl=1; h,r-ind=2,2; optimized-h
```

13.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,13)); lvl=0; h,r-ind=13,169
  [3,3]((1,0,0),(2,2,5),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((1,2,8),(1,3,10),(2,6,13),(2,2,5),(1,1,4)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,7),(1,3,8),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,8),(1,2,6),(2,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,6),(2,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,8),(2,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,3,7),(2,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(2,4,9),(2,2,5),(1,2,5)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,5),(4,6,15),(2,4,9),(2,3,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,6,15),(3,5,12),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,9),(3,5,12),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(2,4,9),(3,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(4,6,15),(3,5,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,3),(4,6,15),(2,2,5),(2,3,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,10),(4,6,15),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,5),(3,4,10),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(2,2,5),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(3,4,10),(4,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(1,2,5),(4,6,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,4),(1,2,7),(1,1,3),(1,2,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,7),(1,2,6),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,2,6),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(1,2,7),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,4),(2,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,8),(1,1,4),(1,2,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,13),(2,4,9),(1,3,7),(1,2,5)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,11),(4,10,23),(1,2,5),(2,4,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,10,23),(3,7,16),(1,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,9),(3,7,16),(1,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(2,4,9),(3,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(4,10,23),(3,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(4,10,23),(1,2,5)); lvl=3; h,r-ind=1,1
      [4,3]((2,6,13),(2,5,11),(1,3,7),(4,10,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,18),(4,10,23),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,13),(3,8,18),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,18),(1,3,7),(4,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,13),(3,8,18),(1,3,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,7),(1,3,10),(1,3,8),(1,2,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,6),(3,7,22),(1,3,9),(1,3,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,15),(3,7,22),(1,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(2,5,15),(1,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(1,3,8),(2,5,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,5,15),(3,7,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(1,2,6),(3,7,22)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,7),(3,7,22),(1,3,10),(1,3,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,10),(2,5,16),(1,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,22),(2,5,16),(1,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(3,7,22),(2,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(1,3,10),(2,5,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,8),(1,2,7),(1,3,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,13),(1,2,8),(1,1,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,13),(1,2,8),(1,3,10)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,3,10),(2,6,13)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,3,13),(0,1,0),(1,3,10)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,3,13),(1,0,0),(1,1,4)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,6,13),(1,0,0),(2,2,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,2),(2,2,5),(2,4,9),(1,2,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,4),(4,6,13),(2,4,9),(2,3,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,6,13),(3,5,11),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,9),(3,5,11),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(2,4,9),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(4,6,13),(3,5,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,2),(4,6,13),(2,2,5),(2,3,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,6,13),(2,3,7),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,5),(2,3,7),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(2,2,5),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(4,6,13),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(4,6,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,6),(2,6,13),(2,4,9),(1,2,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,4),(4,10,21),(2,4,9),(2,5,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,15),(4,10,21),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,9),(3,7,15),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(2,4,9),(3,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(3,7,15),(4,10,21)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,6),(4,10,21),(2,6,13),(2,5,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,10,21),(3,8,17),(2,5,11)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((2,6,13),(3,8,17),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(2,6,13),(3,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(4,10,21),(3,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(1,2,4),(4,10,21)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,6),(2,6,13)); lvl=2; h,r-ind=1,1
    [5,3]((2,6,7),(1,3,4),(1,1,2),(2,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,2),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,2,3),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,7),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,2,3),(1,2,3)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,6,7),(2,4,5),(1,2,3)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,6),(1,3,4),(1,2,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,3,6),(1,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,6,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(2,6,7),(1,0,0),(2,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((2,2,3),(2,4,5),(1,2,2),(1,1,1)); lvl=3; h,r-ind=1,1
        [4,3]((2,4,5),(2,3,4),(1,2,2),(4,6,7)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,6),(2,3,4),(4,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(3,5,6),(4,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(4,6,7)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,1),(2,2,3),(2,3,4),(4,6,7)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,7),(2,3,4),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(4,6,7),(3,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,1
      [4,3]((2,6,7),(2,4,5),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
        [4,3]((2,4,5),(2,5,6),(1,2,2),(4,10,11)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,7,8),(2,5,6),(4,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,8),(1,2,2),(4,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,5),(3,7,8),(1,2,2)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,5),(3,7,8),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(4,10,11)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,3),(2,6,7),(2,5,6),(4,10,11)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,6,7),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((4,10,11),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(4,10,11),(3,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,6,7),(1,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,5)); lvl=2; h,r-ind=1,1
```

13.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,4,13)); lvl=0; h,r-ind=13,169
  [4,3]((0,1,0),(2,8,13),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,4),(2,7,9),(1,3,5),(1,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,10),(1,4,6),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,10),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,5),(2,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,10),(1,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(2,7,9),(2,7,7),(1,4,6)); lvl=2; h,r-ind=1,1
      [4,3]((2,8,9),(1,4,5),(2,7,8),(2,7,9)); lvl=3; h,r-ind=1,1
        [3,3]((3,11,13),(2,7,8),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,13),(1,4,5),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(3,11,13),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(3,11,13),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,4,5),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,6),(1,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((2,8,9),(1,4,4),(2,7,7),(2,7,8)); lvl=3; h,r-ind=1,1
        [3,3]((3,11,12),(2,7,7),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(3,11,12),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(2,8,9),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(3,11,12),(2,7,7)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(2,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,8,9),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,8,9),(1,4,5)); lvl=3; h,r-ind=1,1
    [5,3]((1,3,3),(2,5,6),(1,3,4),(2,7,9),(2,7,7)); lvl=2; h,r-ind=1,1
      [6,3]((3,10,12),(2,7,8),(5,16,18),(3,10,11),(5,16,19),(6,19,22)); lvl=3; h,r-ind=1,1
        [3,3]((4,13,15),(3,10,11),(5,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,15),(6,19,22),(5,16,18)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((5,16,19),(4,13,15),(6,19,22)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,12),(5,16,19),(4,13,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,8),(4,13,15),(3,10,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,8),(3,10,12),(4,13,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,4),(2,6,7),(5,16,19),(6,19,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(6,19,22),(7,22,26)); lvl=4; h,r-ind=1,1
      [3,3]((5,16,19),(6,19,22),(7,22,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(5,16,19),(7,22,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,7),(7,22,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,6),(2,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(2,6,7),(5,16,18),(6,19,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(6,19,22),(7,22,25)); lvl=4; h,r-ind=1,1
      [3,3]((5,16,18),(6,19,22),(7,22,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(5,16,18),(7,22,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,6,7),(7,22,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,6),(2,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(2,7,7),(5,16,18),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,7),(4,13,14),(3,10,11)); lvl=4; h,r-ind=1,1
      [3,3]((5,16,18),(4,13,14),(3,10,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(5,16,18),(4,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(4,13,14)); lvl=4; h,r-ind=1,1
    [4,3]((3,10,12),(1,3,4),(2,7,9),(5,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(4,13,16),(2,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,12),(4,13,16),(2,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((5,16,19),(3,10,12),(4,13,16)); lvl=4; h,r-ind=1,1
      [3,3]((5,16,19),(1,3,4),(4,13,16)); lvl=4; h,r-ind=1,1
    [3,3]((3,10,12),(2,7,9),(2,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,7),(2,7,8),(3,10,11)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(2,7,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,2,3),(1,3,3),(2,5,6)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((1,3,3),(2,3,3),(2,5,6),(4,7,9)); lvl=3; h,r-ind=3,1
      [3,3]((3,5,6),(4,7,9),(2,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(3,5,6),(2,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,3),(2,5,6),(1,2,2),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,6),(2,4,5),(3,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,5,6),(3,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(3,7,8)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,3),(1,2,2),(3,5,6)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(2,2,3),(4,7,9)); lvl=3; h,r-ind=3,1
      [3,3]((3,5,6),(2,3,4),(4,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(3,5,6),(2,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,3),(1,1,1),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(2,3,4),(3,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(2,3,4),(3,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,0),(1,1,1),(3,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(3,5,6)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,8,13),(1,3,5),(1,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,8,13),(1,4,6)); lvl=2; h,r-ind=1,1
  [5,3]((2,2,3),(2,5,6),(1,3,4),(1,3,5),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,4),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,9),(1,2,3),(2,5,6)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,3),(4,7,9),(1,2,3)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,3),(1,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,5),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,2),(1,3,5)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
[3,3]((1,1,3),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
[3,3]((1,4,13),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
[5,3]((2,5,15),(1,4,9),(1,1,3),(2,8,13),(1,1,2)); lvl=1; h,r-ind=3,1
  [4,3]((1,4,7),(1,3,5),(2,5,10),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,10),(2,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,10),(2,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(1,3,6),(2,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(1,3,5),(2,6,11)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,11),(2,5,10),(1,3,6)); lvl=2; h,r-ind=1,1
  [3,3]((2,8,15),(1,4,7),(1,3,6)); lvl=2; h,r-ind=1,1
  [6,3]((1,3,8),(2,5,11),(2,5,12),(1,4,9),(2,8,15),(1,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,15),(1,4,8),(1,3,6),(2,6,13)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,14),(1,3,6),(2,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(2,7,14),(2,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,15),(1,4,8),(2,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,15),(2,7,14),(1,3,6)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,11),(1,3,6),(2,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(2,5,11),(2,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,12),(1,3,7),(2,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(2,5,12),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(1,4,8),(2,6,13)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,3,7),(1,4,9),(1,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(1,3,7),(1,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,13),(1,4,7),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,3,5),(2,5,10)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((2,5,11),(1,1,2),(2,3,7),(2,5,10)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,4),(2,4,9),(2,3,7),(1,1,2)); lvl=3; h,r-ind=1,1
        [3,3]((2,4,9),(2,3,7),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(2,3,7),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(2,4,9),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(1,2,4),(3,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(1,2,4),(2,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(2,5,10),(1,2,4)); lvl=3; h,r-ind=1,1
    [5,3]((2,5,11),(2,5,12),(1,2,6),(1,1,3),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,6),(2,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(1,2,5),(2,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(2,4,9),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(2,3,7),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,6),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(1,2,5),(1,1,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,1,3),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,8),(2,5,12),(1,2,6)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,3,8),(2,5,15),(1,2,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,13),(2,5,15),(1,1,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,4,13),(2,5,15),(1,4,9)); lvl=1; h,r-ind=12,12; optimized-h
  [3,3]((1,4,9),(0,1,0),(2,8,13)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,4,13),(1,4,9),(0,1,0)); lvl=1; h,r-ind=4,4; optimized-h
```

13.12 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,5,13)); lvl=0; h,r-ind=13,169
  [5,3]((2,5,11),(1,3,7),(1,4,8),(1,4,9),(1,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((3,10,22),(1,4,9),(1,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((3,10,22),(2,6,13),(4,13,28),(1,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,6,13),(4,13,28),(5,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,22),(4,13,28),(5,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(3,10,22),(5,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,6,13),(5,16,35)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(2,6,13),(1,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((3,10,21),(2,6,13),(4,13,28),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,16,34),(2,6,13),(4,13,28)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,21),(5,16,34),(4,13,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(5,16,34),(2,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,21),(1,3,6),(5,16,34)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(2,6,13),(1,3,6)); lvl=2; h,r-ind=1,1
    [5,3]((3,10,21),(3,10,22),(4,13,28),(1,4,9),(1,4,8)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,15),(1,4,8),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,22),(2,7,15),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,22),(2,7,15),(4,13,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,15),(3,10,21),(1,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,15),(4,13,28),(3,10,21)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,21),(1,3,6),(1,4,8)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,5),(2,6,15),(2,5,11),(1,3,7),(2,3,7)); lvl=1; h,r-ind=1,1
    [4,3]((5,12,28),(3,7,16),(1,3,7),(2,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((4,10,23),(3,7,16),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(4,10,23),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,28),(1,3,7),(4,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,28),(4,10,23),(3,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(3,7,16),(2,5,11)); lvl=2; h,r-ind=1,1
    [6,3]((5,12,28),(6,14,33),(5,11,26),(3,6,14),(2,4,9),(3,7,16)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,26),(4,9,21),(6,14,33)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,28),(4,9,21),(6,14,33)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,28),(3,7,16),(4,9,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,14),(5,11,26),(4,9,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,14),(2,4,9),(4,9,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,16),(2,4,9),(4,9,21)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,14),(2,3,7),(2,4,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(5,11,26),(3,6,14),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,6,14),(5,11,26),(4,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(5,11,26),(4,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(1,2,5),(4,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(3,6,14),(4,8,19)); lvl=3; h,r-ind=1,1
    [4,3]((5,12,28),(6,14,33),(2,5,12),(1,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((6,14,33),(2,5,12),(7,17,40)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,12),(7,17,40)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,28),(6,14,33),(7,17,40)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(5,12,28),(7,17,40)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,15),(2,5,12),(1,3,7)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((1,2,5),(6,14,33),(2,5,12),(5,11,26)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,12),(6,14,33),(7,16,38)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,26),(6,14,33),(7,16,38)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(5,11,26),(7,16,38)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,12),(7,16,38)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,15),(1,2,5),(2,5,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,5),(2,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,13),(1,0,0),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,13),(1,2,5),(2,6,15)); lvl=1; h,r-ind=1,1
  [4,3]((1,5,13),(2,6,15),(1,3,7),(1,4,9)); lvl=1; h,r-ind=1,2
    [3,3]((1,4,10),(2,6,15),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,10),(1,4,9),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,13),(1,4,10),(1,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,13),(1,4,10),(2,6,15)); lvl=2; h,r-ind=1,1
  [5,3]((2,6,9),(1,5,8),(2,10,13),(1,4,8),(1,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,5),(2,8,13),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,7),(2,8,13),(1,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,11),(2,6,9),(1,3,5),(1,4,6)); lvl=2; h,r-ind=1,1
      [4,3]((2,7,10),(4,14,21),(1,3,5),(2,6,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,5),(4,14,21),(3,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(4,14,21),(3,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,9),(1,3,5),(3,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(2,6,9),(3,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(4,14,21),(1,3,5)); lvl=3; h,r-ind=1,1
      [4,3]((2,8,11),(2,7,10),(1,4,6),(4,14,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,16),(2,7,10),(4,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,16),(1,4,6),(4,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,11),(3,11,16),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,11),(3,11,16),(2,7,10)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,7),(2,10,13),(2,8,11),(1,4,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,6),(4,18,25),(2,9,12),(2,8,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,12),(4,18,25),(3,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(4,18,25),(3,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,11),(2,9,12),(3,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(2,8,11),(3,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(1,4,6),(4,18,25)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,7),(4,18,25),(2,10,13),(2,9,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,18,25),(3,14,19),(2,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,13),(3,14,19),(2,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(4,18,25),(3,14,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,13),(1,5,7),(3,14,19)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,6),(1,3,5),(1,4,7),(2,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,7),(2,8,13),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,8,13),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,7),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,6),(2,7,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,8),(1,5,7),(1,4,7),(2,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,14),(2,8,13),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(2,9,14),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,9,14),(2,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(1,5,7),(2,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(1,3,6),(1,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,8),(1,4,8),(1,4,7)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(2,5,11),(2,3,7),(2,6,9),(1,3,6)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,4),(1,3,5),(3,6,11),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,9),(1,3,5),(3,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(3,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,6),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,9),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,11),(1,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,6),(1,2,4),(2,4,9),(2,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,6,13),(1,2,4),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(3,6,13),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,6,13),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(2,3,6),(3,6,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,6),(2,3,7),(2,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,6),(2,4,9),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,4,9),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(1,1,2),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,6),(1,2,4),(4,7,13),(3,6,11)); lvl=2; h,r-ind=1,1
      [3,3]((5,9,17),(3,6,11),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(5,9,17),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,13),(5,9,17),(3,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(4,7,13),(5,9,17)); lvl=3; h,r-ind=1,1
    [5,3]((3,5,9),(4,7,13),(1,3,5),(1,2,3),(3,6,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,7),(1,3,5),(3,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,13),(2,4,7),(3,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(4,7,13),(2,4,7)); lvl=3; h,r-ind=1,1
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      [3,3]((2,4,7),(1,2,3),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(2,4,7),(1,2,3)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,2),(3,5,9),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(3,5,9),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,9),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,2),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,0,0),(2,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,6),(3,5,9),(4,7,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,6),(4,7,13),(5,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(4,7,13),(5,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(5,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(1,1,2),(5,8,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(1,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,6,9),(2,10,13)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(1,2,2),(2,7,7),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,7),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,5),(1,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(1,3,4),(1,2,2),(1,3,3)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,4),(1,3,3),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,3),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,2,2),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(2,5,6)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(1,5,6),(2,7,7),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,10),(1,5,6),(1,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,10),(1,4,4),(2,9,9),(1,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,4),(2,9,9),(3,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(2,9,9),(3,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,9,10),(3,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(1,4,4),(3,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,7),(1,4,4),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,7,7),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(2,9,10),(2,9,9),(1,5,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,9),(1,5,5),(2,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(1,5,5),(2,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,5,6),(1,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=4; h,r-ind=1,1
    [4,3]((2,10,13),(2,8,11),(1,5,6),(1,4,5)); lvl=2; h,r-ind=1,1
      [4,3]((2,8,11),(2,9,12),(1,4,5),(4,18,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,17),(2,9,12),(4,18,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(3,13,17),(4,18,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,11),(3,13,17),(2,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,8,11),(3,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,5),(4,18,23)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,6),(2,10,13),(2,9,12),(4,18,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,10,13),(3,14,18),(2,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,23),(3,14,18),(2,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(4,18,23),(3,14,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,10,13),(3,14,18)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(2,10,13),(1,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,9),(1,2,3),(2,8,11),(1,4,5)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((2,7,10),(1,3,4),(1,4,5),(2,8,11)); lvl=3; h,r-ind=1,1
        [3,3]((3,11,15),(1,4,5),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(3,11,15),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,15),(2,8,11),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(3,11,15),(2,8,11)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,9),(2,7,10),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((3,9,13),(1,3,4),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,9),(3,9,13),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,6,9),(3,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(3,9,13),(1,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,2,2),(2,7,7)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,5,8),(2,10,13)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,5,13),(0,1,0),(1,5,8)); lvl=1; h,r-ind=5,5; optimized-h
  [4,3]((1,5,13),(1,5,8),(1,4,8),(1,4,9)); lvl=1; h,r-ind=1,1
    [4,3]((1,5,8),(2,10,21),(1,4,8),(6,25,53)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc
      [5,3]((1,4,8),(6,25,53),(3,13,27),(6,26,55),(7,30,61)); lvl=3; h,r-ind=1,1
        [4,3]((1,4,8),(9,38,79),(4,17,36),(6,25,53)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((9,38,79),(5,21,44),(4,17,36)); lvl=5; h,r-ind=1,1
          [3,3]((6,25,53),(5,21,44),(4,17,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,8),(6,25,53),(5,21,44)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,8),(9,38,79),(5,21,44)); lvl=5; h,r-ind=1,1
        [5,3]((12,51,106),(9,38,79),(4,17,36),(7,30,63),(11,47,98)); lvl=4; h,r-ind=1,1
          [3,3]((8,34,71),(4,17,36),(9,38,79)); lvl=5; h,r-ind=1,1
          [3,3]((12,51,106),(8,34,71),(9,38,79)); lvl=5; h,r-ind=1,1
          [3,3]((12,51,106),(8,34,71),(11,47,98)); lvl=5; h,r-ind=1,1
          [3,3]((8,34,71),(7,30,63),(4,17,36)); lvl=5; h,r-ind=1,1
          [3,3]((8,34,71),(11,47,98),(7,30,63)); lvl=5; h,r-ind=1,1
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  [4,3]((1,4,8),(12,51,106),(9,38,79),(4,17,35)); lvl=4; h,r-ind=1,1
    [3,3]((9,38,79),(12,51,106),(13,55,114)); lvl=5; h,r-ind=1,1
    [3,3]((4,17,35),(12,51,106),(13,55,114)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,8),(4,17,35),(13,55,114)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,8),(9,38,79),(13,55,114)); lvl=5; h,r-ind=1,1
  [3,3]((6,26,55),(4,17,36),(7,30,63)); lvl=4; h,r-ind=1,1
  [4,3]((6,26,55),(3,13,27),(7,30,63),(11,47,98)); lvl=4; h,r-ind=1,1
    [3,3]((3,13,27),(10,43,90),(11,47,98)); lvl=5; h,r-ind=1,1
    [3,3]((7,30,63),(10,43,90),(11,47,98)); lvl=5; h,r-ind=1,1
    [3,3]((7,30,63),(6,26,55),(10,43,90)); lvl=5; h,r-ind=1,1
    [3,3]((6,26,55),(3,13,27),(10,43,90)); lvl=5; h,r-ind=1,1
  [4,3]((12,51,106),(4,17,35),(3,13,27),(11,47,98)); lvl=4; h,r-ind=1,1
    [3,3]((15,64,133),(3,13,27),(4,17,35)); lvl=5; h,r-ind=1,1
    [3,3]((12,51,106),(15,64,133),(4,17,35)); lvl=5; h,r-ind=1,1
    [3,3]((11,47,98),(12,51,106),(15,64,133)); lvl=5; h,r-ind=1,1
    [3,3]((11,47,98),(15,64,133),(3,13,27)); lvl=5; h,r-ind=1,1
  [3,3]((7,30,61),(4,17,35),(3,13,27)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,8),(7,30,61),(4,17,35)); lvl=4; h,r-ind=1,1
[5,3]((1,5,8),(2,10,19),(2,9,18),(1,4,8),(7,30,61)); lvl=3; h,r-ind=1,1
  [5,3]((1,5,9),(5,22,43),(7,31,61),(6,27,53),(3,14,27)); lvl=4; h,r-ind=1,1
    [3,3]((7,31,61),(4,18,35),(5,22,43)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,9),(4,18,35),(5,22,43)); lvl=5; h,r-ind=1,1
    [3,3]((7,31,61),(4,18,35),(6,27,53)); lvl=5; h,r-ind=1,1
    [3,3]((3,14,27),(4,18,35),(6,27,53)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,9),(3,14,27),(4,18,35)); lvl=5; h,r-ind=1,1
  [4,3]((2,10,19),(2,9,18),(6,27,53),(3,14,27)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,18),(6,27,53),(5,23,45)); lvl=5; h,r-ind=1,1
    [3,3]((3,14,27),(6,27,53),(5,23,45)); lvl=5; h,r-ind=1,1
    [3,3]((2,10,19),(3,14,27),(5,23,45)); lvl=5; h,r-ind=1,1
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  [4,3]((1,4,8),(3,13,26),(5,22,43),(7,31,61)); lvl=4; h,r-ind=1,1
    [3,3]((3,13,26),(7,31,61),(8,35,69)); lvl=5; h,r-ind=1,1
    [3,3]((5,22,43),(7,31,61),(8,35,69)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,8),(3,13,26),(8,35,69)); lvl=5; h,r-ind=1,1
    [3,3]((5,22,43),(1,4,8),(8,35,69)); lvl=5; h,r-ind=1,1
  [4,3]((1,5,8),(1,5,9),(1,4,8),(5,22,43)); lvl=4; h,r-ind=1,3; alert-r-inc
    [3,3]((2,9,17),(1,5,9),(5,22,43)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,8),(2,9,17),(5,22,43)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,8),(2,9,17),(1,5,9)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,8),(1,5,8),(2,9,17)); lvl=5; h,r-ind=1,1
  [4,3]((2,9,18),(3,13,26),(7,31,61),(6,27,53)); lvl=4; h,r-ind=1,1
    [3,3]((9,40,79),(7,31,61),(3,13,26)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,18),(9,40,79),(3,13,26)); lvl=5; h,r-ind=1,1
    [3,3]((6,27,53),(9,40,79),(7,31,61)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,18),(6,27,53),(9,40,79)); lvl=5; h,r-ind=1,1
  [3,3]((2,9,18),(7,30,61),(3,13,26)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,8),(7,30,61),(3,13,26)); lvl=4; h,r-ind=1,1
[5,3]((1,5,10),(2,9,18),(2,9,19),(3,13,27),(7,30,61)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,19),(10,44,91),(3,13,27)); lvl=4; h,r-ind=1,1
  [4,3]((5,22,45),(6,26,53),(10,44,91),(3,13,27)); lvl=4; h,r-ind=1,2; alert-r-inc
    [3,3]((8,35,72),(6,26,53),(3,13,27)); lvl=5; h,r-ind=1,1
    [3,3]((10,44,91),(8,35,72),(3,13,27)); lvl=5; h,r-ind=1,1
    [3,3]((5,22,45),(10,44,91),(8,35,72)); lvl=5; h,r-ind=1,1
    [3,3]((5,22,45),(8,35,72),(6,26,53)); lvl=5; h,r-ind=1,1
  [3,3]((7,30,61),(6,26,53),(3,13,27)); lvl=4; h,r-ind=1,1
  [3,3]((2,9,18),(7,30,61),(6,26,53)); lvl=4; h,r-ind=1,1
  [4,3]((5,22,45),(8,36,73),(2,9,18),(6,26,53)); lvl=4; h,r-ind=1,2; alert-r-inc
    [3,3]((7,31,63),(8,36,73),(2,9,18)); lvl=5; h,r-ind=1,1
    [3,3]((6,26,53),(7,31,63),(2,9,18)); lvl=5; h,r-ind=1,1
    [3,3]((5,22,45),(6,26,53),(7,31,63)); lvl=5; h,r-ind=1,1
    [3,3]((5,22,45),(7,31,63),(8,36,73)); lvl=5; h,r-ind=1,1
  [3,3]((1,5,10),(8,36,73),(2,9,18)); lvl=4; h,r-ind=1,1
  [5,3]((1,5,10),(5,22,45),(8,36,73),(2,9,19),(10,44,91)); lvl=4; h,r-ind=1,1
    [4,3]((9,40,82),(7,31,64),(11,49,101),(5,22,45)); lvl=5; h,r-ind=1,1
      [3,3]((11,49,101),(16,71,146),(7,31,64)); lvl=6; h,r-ind=1,1
      [3,3]((5,22,45),(16,71,146),(7,31,64)); lvl=6; h,r-ind=1,1
      [3,3]((9,40,82),(11,49,101),(16,71,146)); lvl=6; h,r-ind=1,1
      [3,3]((5,22,45),(9,40,82),(16,71,146)); lvl=6; h,r-ind=1,1
    [4,3]((10,45,92),(6,27,55),(9,40,82),(5,22,45)); lvl=5; h,r-ind=1,1
      [3,3]((15,67,137),(5,22,45),(6,27,55)); lvl=6; h,r-ind=1,1
      [3,3]((10,45,92),(15,67,137),(6,27,55)); lvl=6; h,r-ind=1,1
      [3,3]((9,40,82),(15,67,137),(5,22,45)); lvl=6; h,r-ind=1,1
      [3,3]((10,45,92),(9,40,82),(15,67,137)); lvl=6; h,r-ind=1,1
    [3,3]((8,36,73),(6,27,55),(5,22,45)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,10),(8,36,73),(6,27,55)); lvl=5; h,r-ind=1,1
    [3,3]((10,44,91),(7,31,64),(5,22,45)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,19),(7,31,64),(11,49,101)); lvl=5; h,r-ind=1,1
    [3,3]((10,44,91),(2,9,19),(7,31,64)); lvl=5; h,r-ind=1,1
    [4,3]((10,45,92),(9,40,82),(11,49,101),(4,18,37)); lvl=5; h,r-ind=1,1
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```
          [3,3]((13,58,119),(11,49,101),(9,40,82)); lvl=6; h,r-ind=1,1
          [3,3]((10,45,92),(13,58,119),(9,40,82)); lvl=6; h,r-ind=1,1
          [3,3]((13,58,119),(4,18,37),(11,49,101)); lvl=6; h,r-ind=1,1
          [3,3]((10,45,92),(13,58,119),(4,18,37)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,10),(10,45,92),(6,27,55)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(10,45,92),(4,18,37)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,19),(11,49,101),(4,18,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(2,9,19),(4,18,37)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,10),(2,10,21),(2,9,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,10),(2,10,19),(2,9,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,19),(3,13,27),(6,26,55)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,9),(1,4,8),(6,25,53)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,13),(1,4,9),(2,10,21),(6,25,53)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc
    [5,3]((1,4,9),(7,30,66),(6,26,55),(3,13,28),(6,25,53)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,28),(4,17,37),(7,30,66)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(4,17,37),(7,30,66)); lvl=4; h,r-ind=1,1
      [4,3]((12,51,110),(11,47,101),(3,13,28),(4,17,37)); lvl=4; h,r-ind=1,1
        [3,3]((15,64,138),(3,13,28),(11,47,101)); lvl=5; h,r-ind=1,1
        [3,3]((12,51,110),(15,64,138),(11,47,101)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,37),(15,64,138),(3,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((12,51,110),(4,17,37),(15,64,138)); lvl=5; h,r-ind=1,1
      [4,3]((7,30,64),(11,47,101),(3,13,28),(6,26,55)); lvl=4; h,r-ind=1,1
        [3,3]((11,47,101),(3,13,28),(10,43,92)); lvl=5; h,r-ind=1,1
        [3,3]((6,26,55),(3,13,28),(10,43,92)); lvl=5; h,r-ind=1,1
        [3,3]((7,30,64),(11,47,101),(10,43,92)); lvl=5; h,r-ind=1,1
        [3,3]((7,30,64),(6,26,55),(10,43,92)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,36),(7,30,64),(6,26,55)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,9),(9,38,82),(12,51,110),(4,17,37)); lvl=4; h,r-ind=1,1
        [3,3]((9,38,82),(12,51,110),(13,55,119)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,37),(12,51,110),(13,55,119)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,9),(9,38,82),(13,55,119)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,37),(1,4,9),(13,55,119)); lvl=5; h,r-ind=1,1
      [5,3]((4,17,36),(7,30,64),(9,38,82),(12,51,110),(11,47,101)); lvl=4; h,r-ind=1,1
        [3,3]((12,51,110),(11,47,101),(8,34,73)); lvl=5; h,r-ind=1,1
        [3,3]((7,30,64),(11,47,101),(8,34,73)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,36),(7,30,64),(8,34,73)); lvl=5; h,r-ind=1,1
        [3,3]((9,38,82),(12,51,110),(8,34,73)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,36),(9,38,82),(8,34,73)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,9),(6,25,53),(4,17,36),(9,38,82)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((5,21,45),(4,17,36),(6,25,53)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,9),(5,21,45),(6,25,53)); lvl=5; h,r-ind=1,1
        [3,3]((9,38,82),(5,21,45),(4,17,36)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,9),(9,38,82),(5,21,45)); lvl=5; h,r-ind=1,1
    [5,3]((1,5,13),(2,9,20),(2,10,23),(1,4,9),(7,30,66)); lvl=3; h,r-ind=1,1
      [4,3]((3,14,32),(6,27,61),(2,10,23),(2,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((5,23,52),(2,9,20),(6,27,61)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,32),(5,23,52),(6,27,61)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,32),(2,10,23),(5,23,52)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,23),(5,23,52),(2,9,20)); lvl=5; h,r-ind=1,1
      [4,3]((3,13,29),(7,31,70),(6,27,61),(2,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((6,27,61),(7,31,70),(9,40,90)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,29),(7,31,70),(9,40,90)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,20),(3,13,29),(9,40,90)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,20),(6,27,61),(9,40,90)); lvl=5; h,r-ind=1,1
      [3,3]((7,30,66),(3,13,29),(2,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(7,30,66),(3,13,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(3,14,32),(2,10,23)); lvl=4; h,r-ind=1,1
      [5,3]((1,5,12),(5,22,50),(3,14,32),(7,31,70),(6,27,61)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,41),(6,27,61),(7,31,70)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,50),(4,18,41),(7,31,70)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,32),(4,18,41),(6,27,61)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,12),(3,14,32),(4,18,41)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,50),(1,5,12),(4,18,41)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,9),(3,13,29),(5,22,50),(7,31,70)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,29),(7,31,70),(8,35,79)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,50),(7,31,70),(8,35,79)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,9),(3,13,29),(8,35,79)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,50),(1,4,9),(8,35,79)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,13),(1,4,9),(1,5,12),(5,22,50)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((1,4,9),(5,22,50),(2,9,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,12),(5,22,50),(2,9,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,13),(1,4,9),(2,9,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,12),(1,5,13),(2,9,21)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,19),(6,26,55),(3,13,28)); lvl=3; h,r-ind=1,1
    [5,3]((1,5,11),(2,9,20),(7,30,66),(2,9,19),(3,13,28)); lvl=3; h,r-ind=1,1
      [4,3]((5,22,48),(6,26,57),(3,13,28),(10,44,95)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((8,35,76),(6,26,57),(3,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((10,44,95),(8,35,76),(3,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,48),(10,44,95),(8,35,76)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,48),(8,35,76),(6,26,57)); lvl=5; h,r-ind=1,1
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      [3,3]((2,9,19),(3,13,28),(10,44,95)); lvl=4; h,r-ind=1,1
      [5,3]((1,5,11),(8,36,79),(2,9,19),(5,22,48),(10,44,95)); lvl=4; h,r-ind=1,1
        [3,3]((7,31,67),(5,22,48),(10,44,95)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,19),(7,31,67),(10,44,95)); lvl=5; h,r-ind=1,1
        [4,3]((9,40,87),(7,31,67),(11,49,106),(5,22,48)); lvl=5; h,r-ind=1,1
          [3,3]((11,49,106),(7,31,67),(16,71,154)); lvl=6; h,r-ind=1,1
          [3,3]((5,22,48),(7,31,67),(16,71,154)); lvl=6; h,r-ind=1,1
          [3,3]((9,40,87),(11,49,106),(16,71,154)); lvl=6; h,r-ind=1,1
          [3,3]((5,22,48),(9,40,87),(16,71,154)); lvl=6; h,r-ind=1,1
        [4,3]((10,45,98),(6,27,59),(9,40,87),(5,22,48)); lvl=5; h,r-ind=1,1
          [3,3]((5,22,48),(6,27,59),(15,67,146)); lvl=6; h,r-ind=1,1
          [3,3]((10,45,98),(6,27,59),(15,67,146)); lvl=6; h,r-ind=1,1
          [3,3]((9,40,87),(10,45,98),(15,67,146)); lvl=6; h,r-ind=1,1
          [3,3]((9,40,87),(5,22,48),(15,67,146)); lvl=6; h,r-ind=1,1
        [3,3]((8,36,79),(6,27,59),(5,22,48)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,11),(8,36,79),(6,27,59)); lvl=5; h,r-ind=1,1
        [4,3]((4,18,39),(10,45,98),(9,40,87),(11,49,106)); lvl=5; h,r-ind=1,1
          [3,3]((9,40,87),(13,58,126),(10,45,98)); lvl=6; h,r-ind=1,1
          [3,3]((4,18,39),(13,58,126),(10,45,98)); lvl=6; h,r-ind=1,1
          [3,3]((11,49,106),(4,18,39),(13,58,126)); lvl=6; h,r-ind=1,1
          [3,3]((11,49,106),(9,40,87),(13,58,126)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,11),(4,18,39),(10,45,98)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,11),(10,45,98),(6,27,59)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,19),(7,31,67),(11,49,106)); lvl=5; h,r-ind=1,1
        [3,3]((4,18,39),(2,9,19),(11,49,106)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,11),(4,18,39),(2,9,19)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,20),(8,36,79),(5,22,48),(6,26,57)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,22,48),(8,36,79),(7,31,68)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,20),(8,36,79),(7,31,68)); lvl=5; h,r-ind=1,1
        [3,3]((6,26,57),(5,22,48),(7,31,68)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,20),(6,26,57),(7,31,68)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,11),(2,9,20),(8,36,79)); lvl=4; h,r-ind=1,1
      [3,3]((7,30,66),(6,26,57),(3,13,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,20),(7,30,66),(6,26,57)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,21),(1,5,11),(2,9,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,11),(2,9,20),(2,10,23)); lvl=3; h,r-ind=1,1
```

13.13 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,6,13)); lvl=0; h,r-ind=13,169
  [4,3]((1,0,0),(2,12,13),(2,2,3),(0,1,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,2,3),(2,7,8),(2,7,7),(1,1,1)); lvl=2; h,r-ind=5,1; alert-h-inc
      [3,3]((2,7,8),(1,3,3),(2,7,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,8),(4,9,11),(1,3,3),(2,5,5)); lvl=3; h,r-ind=1,1
        [3,3]((5,13,14),(3,7,8),(2,5,5)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [4,3]((1,3,3),(5,13,14),(9,24,26),(2,5,5)); lvl=4; h,r-ind=1,1
          [3,3]((9,24,26),(5,13,14),(6,16,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,5),(5,13,14),(6,16,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(2,5,5),(6,16,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(9,24,26),(6,16,17)); lvl=5; h,r-ind=1,1
        [5,3]((2,5,6),(3,8,9),(5,13,14),(9,24,26),(3,7,8)); lvl=4; h,r-ind=1,1
          [4,3]((12,31,35),(3,8,9),(8,21,23),(7,18,20)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((10,26,29),(3,8,9),(8,21,23)); lvl=6; h,r-ind=1,1
            [3,3]((7,18,20),(10,26,29),(8,21,23)); lvl=6; h,r-ind=1,1
            [3,3]((12,31,35),(10,26,29),(3,8,9)); lvl=6; h,r-ind=1,1
            [3,3]((7,18,20),(12,31,35),(10,26,29)); lvl=6; h,r-ind=1,1
          [4,3]((5,13,14),(4,10,11),(8,21,23),(7,18,20)); lvl=5; h,r-ind=1,1
            [3,3]((12,31,34),(7,18,20),(4,10,11)); lvl=6; h,r-ind=1,1
            [3,3]((5,13,14),(12,31,34),(4,10,11)); lvl=6; h,r-ind=1,1
            [3,3]((8,21,23),(5,13,14),(12,31,34)); lvl=6; h,r-ind=1,1
            [3,3]((8,21,23),(12,31,34),(7,18,20)); lvl=6; h,r-ind=1,1
          [5,3]((2,5,6),(12,31,35),(3,7,8),(4,10,11),(7,18,20)); lvl=5; h,r-ind=1,1
            [3,3]((13,33,37),(4,10,11),(7,18,20)); lvl=6; h,r-ind=1,1
            [4,3]((13,33,37),(15,38,43),(9,23,26),(7,18,20)); lvl=6; h,r-ind=1,1
              [3,3]((22,56,63),(9,23,26),(15,38,43)); lvl=7; h,r-ind=1,1
              [3,3]((13,33,37),(22,56,63),(15,38,43)); lvl=7; h,r-ind=1,1
              [3,3]((7,18,20),(13,33,37),(22,56,63)); lvl=7; h,r-ind=1,1
              [3,3]((7,18,20),(22,56,63),(9,23,26)); lvl=7; h,r-ind=1,1
            [3,3]((12,31,35),(9,23,26),(7,18,20)); lvl=6; h,r-ind=1,1
            [3,3]((2,5,6),(12,31,35),(9,23,26)); lvl=6; h,r-ind=1,1
            [3,3]((2,5,6),(15,38,43),(9,23,26)); lvl=6; h,r-ind=1,1
            [4,3]((13,33,37),(15,38,43),(6,15,17),(4,10,11)); lvl=6; h,r-ind=1,1
              [3,3]((19,48,54),(6,15,17),(15,38,43)); lvl=7; h,r-ind=1,1
              [3,3]((13,33,37),(19,48,54),(15,38,43)); lvl=7; h,r-ind=1,1
              [3,3]((4,10,11),(13,33,37),(19,48,54)); lvl=7; h,r-ind=1,1
              [3,3]((4,10,11),(19,48,54),(6,15,17)); lvl=7; h,r-ind=1,1
            [3,3]((3,7,8),(6,15,17),(4,10,11)); lvl=6; h,r-ind=1,1
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```
          [3,3]((2,5,6),(3,7,8),(6,15,17)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,6),(15,38,43),(6,15,17)); lvl=6; h,r-ind=1,1
        [3,3]((9,24,26),(5,13,14),(8,21,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,6),(12,31,35),(3,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((9,24,26),(3,8,9),(8,21,23)); lvl=5; h,r-ind=1,1
      [3,3]((4,9,11),(2,5,6),(3,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(4,11,13),(3,8,9)); lvl=4; h,r-ind=1,1
      [5,3]((2,7,8),(1,3,3),(4,11,13),(3,8,9),(9,24,26)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,12),(3,8,9),(9,24,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(4,11,12),(9,24,26)); lvl=5; h,r-ind=1,1
        [4,3]((4,11,12),(10,28,31),(9,25,28),(3,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((10,28,31),(9,25,28),(13,36,40)); lvl=6; h,r-ind=1,1
          [3,3]((3,8,9),(9,25,28),(13,36,40)); lvl=6; h,r-ind=1,1
          [3,3]((4,11,12),(3,8,9),(13,36,40)); lvl=6; h,r-ind=1,1
          [3,3]((4,11,12),(10,28,31),(13,36,40)); lvl=6; h,r-ind=1,1
        [4,3]((4,11,13),(9,25,28),(5,14,16),(3,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((5,14,16),(9,25,28),(8,22,25)); lvl=6; h,r-ind=1,1
          [3,3]((3,8,9),(9,25,28),(8,22,25)); lvl=6; h,r-ind=1,1
          [3,3]((4,11,13),(5,14,16),(8,22,25)); lvl=6; h,r-ind=1,1
          [3,3]((3,8,9),(4,11,13),(8,22,25)); lvl=6; h,r-ind=1,1
        [5,3]((7,20,22),(2,6,7),(10,28,31),(9,25,28),(5,14,16)); lvl=5; h,r-ind=1,1
          [3,3]((6,17,19),(9,25,28),(5,14,16)); lvl=6; h,r-ind=1,1
          [3,3]((2,6,7),(6,17,19),(5,14,16)); lvl=6; h,r-ind=1,1
          [3,3]((7,20,22),(2,6,7),(6,17,19)); lvl=6; h,r-ind=1,1
          [3,3]((6,17,19),(10,28,31),(9,25,28)); lvl=6; h,r-ind=1,1
          [3,3]((7,20,22),(6,17,19),(10,28,31)); lvl=6; h,r-ind=1,1
        [3,3]((4,11,13),(2,6,7),(5,14,16)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,3),(2,7,8),(7,20,22),(2,6,7)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((2,7,8),(3,9,10),(2,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((7,20,22),(3,9,10),(2,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,3),(7,20,22),(3,9,10)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,3),(2,7,8),(3,9,10)); lvl=6; h,r-ind=1,1
        [4,3]((1,3,3),(7,20,22),(4,11,12),(10,28,31)); lvl=5; h,r-ind=1,1
          [3,3]((7,20,22),(10,28,31),(11,31,34)); lvl=6; h,r-ind=1,1
          [3,3]((4,11,12),(10,28,31),(11,31,34)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,3),(4,11,12),(11,31,34)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,3),(7,20,22),(11,31,34)); lvl=6; h,r-ind=1,1
    [4,3]((2,2,3),(1,1,1),(4,9,11),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(1,2,2),(2,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,8),(2,4,5),(1,2,2)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,9),(1,2,2)); lvl=4; h,r-ind=1,1
      [4,3]((2,2,3),(4,7,9),(1,1,1),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(4,7,9),(1,2,2)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,7),(2,3,4),(1,2,2)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(4,6,7),(1,2,2)); lvl=5; h,r-ind=1,1
        [4,3]((2,2,3),(1,1,1),(4,6,7),(2,3,4)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,5),(1,1,1),(4,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,4),(3,4,5),(4,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=6; h,r-ind=1,1
      [3,3]((3,7,8),(4,9,11),(2,4,5)); lvl=4; h,r-ind=1,1
[3,3]((0,1,0),(2,7,7),(1,1,1)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
[4,3]((1,6,6),(2,12,13),(2,7,8),(2,7,7)); lvl=2; h,r-ind=5,1; alert-h-inc
  [4,3]((1,6,6),(2,9,9),(2,12,13),(4,19,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,11),(4,19,21),(3,14,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,5),(2,10,11),(3,14,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,9),(1,5,5),(3,14,15)); lvl=4; h,r-ind=1,1
    [3,3]((4,21,23),(1,5,5),(2,10,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,6),(4,21,23),(2,12,13),(1,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(2,11,12),(4,21,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,5),(4,22,23),(2,11,12)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,6),(4,22,23),(2,12,13),(2,11,12)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,18),(4,22,23),(2,11,12)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,13),(3,17,18),(2,11,12)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,6),(2,12,13),(3,17,18)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,6),(3,17,18),(4,22,23)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,5),(1,6,6),(4,22,23)); lvl=5; h,r-ind=1,1
  [4,3]((2,9,9),(1,4,4),(2,7,8),(4,19,21)); lvl=3; h,r-ind=1,1
    [5,3]((9,39,41),(4,17,19),(3,13,14),(2,7,8),(1,4,4)); lvl=4; h,r-ind=1,1
      [4,3]((3,13,14),(4,17,18),(9,38,41),(10,42,45)); lvl=5; h,r-ind=1,1
        [3,3]((13,55,59),(10,42,45),(4,17,18)); lvl=6; h,r-ind=1,1
        [3,3]((3,13,14),(13,55,59),(4,17,18)); lvl=6; h,r-ind=1,1
        [3,3]((9,38,41),(13,55,59),(10,42,45)); lvl=6; h,r-ind=1,1
        [3,3]((3,13,14),(9,38,41),(13,55,59)); lvl=6; h,r-ind=1,1
      [5,3]((7,29,31),(5,21,23),(2,8,9),(9,38,41),(10,42,45)); lvl=5; h,r-ind=1,1
        [3,3]((7,29,31),(6,25,27),(2,8,9)); lvl=6; h,r-ind=1,1
        [3,3]((5,21,23),(6,25,27),(2,8,9)); lvl=6; h,r-ind=1,1
        [3,3]((5,21,23),(9,38,41),(6,25,27)); lvl=6; h,r-ind=1,1
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          [3,3]((10,42,45),(7,29,31),(6,25,27)); lvl=6; h,r-ind=1,1
          [3,3]((9,38,41),(10,42,45),(6,25,27)); lvl=6; h,r-ind=1,1
        [4,3]((1,4,4),(7,29,31),(2,8,9),(2,7,8)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((7,29,31),(2,8,9),(3,12,13)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,8),(2,8,9),(3,12,13)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,4),(2,7,8),(3,12,13)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,4),(7,29,31),(3,12,13)); lvl=6; h,r-ind=1,1
        [3,3]((4,17,19),(5,21,23),(2,8,9)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,4),(7,29,31),(4,17,18),(10,42,45)); lvl=5; h,r-ind=1,1
          [3,3]((7,29,31),(10,42,45),(11,46,49)); lvl=6; h,r-ind=1,1
          [3,3]((4,17,18),(10,42,45),(11,46,49)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,4),(7,29,31),(11,46,49)); lvl=6; h,r-ind=1,1
          [3,3]((4,17,18),(1,4,4),(11,46,49)); lvl=6; h,r-ind=1,1
        [4,3]((4,17,19),(5,21,23),(3,13,14),(9,38,41)); lvl=5; h,r-ind=1,1
          [3,3]((8,34,37),(9,38,41),(5,21,23)); lvl=6; h,r-ind=1,1
          [3,3]((4,17,19),(8,34,37),(5,21,23)); lvl=6; h,r-ind=1,1
          [3,3]((8,34,37),(3,13,14),(9,38,41)); lvl=6; h,r-ind=1,1
          [3,3]((4,17,19),(8,34,37),(3,13,14)); lvl=6; h,r-ind=1,1
        [3,3]((3,13,14),(9,39,41),(4,17,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(9,39,41),(4,17,18)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,9),(5,22,23),(9,39,41),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((6,26,27),(5,22,23),(9,39,41)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(6,26,27),(9,39,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,9),(6,26,27),(5,22,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(2,9,9),(6,26,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,9),(5,22,23),(3,14,15)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,9,10),(4,17,19),(3,13,14)); lvl=4; h,r-ind=1,1
      [5,3]((5,22,23),(9,39,41),(3,14,15),(2,9,10),(3,13,14)); lvl=4; h,r-ind=1,1
        [4,3]((3,13,14),(12,53,57),(8,35,37),(7,31,33)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((12,53,57),(7,31,33),(10,44,47)); lvl=6; h,r-ind=1,1
          [3,3]((8,35,37),(7,31,33),(10,44,47)); lvl=6; h,r-ind=1,1
          [3,3]((3,13,14),(8,35,37),(10,44,47)); lvl=6; h,r-ind=1,1
          [3,3]((3,13,14),(12,53,57),(10,44,47)); lvl=6; h,r-ind=1,1
        [4,3]((5,22,23),(4,18,19),(8,35,37),(7,31,33)); lvl=5; h,r-ind=1,1
          [3,3]((4,18,19),(7,31,33),(12,53,56)); lvl=6; h,r-ind=1,1
          [3,3]((8,35,37),(7,31,33),(12,53,56)); lvl=6; h,r-ind=1,1
          [3,3]((5,22,23),(8,35,37),(12,53,56)); lvl=6; h,r-ind=1,1
          [3,3]((5,22,23),(4,18,19),(12,53,56)); lvl=6; h,r-ind=1,1
        [5,3]((3,14,15),(4,18,19),(2,9,10),(12,53,57),(7,31,33)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,10),(12,53,57),(9,40,43)); lvl=6; h,r-ind=1,1
          [3,3]((7,31,33),(12,53,57),(9,40,43)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,10),(15,67,72),(9,40,43)); lvl=6; h,r-ind=1,1
          [4,3]((13,58,62),(7,31,33),(15,67,72),(9,40,43)); lvl=6; h,r-ind=1,1
            [3,3]((7,31,33),(9,40,43),(22,98,105)); lvl=7; h,r-ind=1,1
            [3,3]((15,67,72),(9,40,43),(22,98,105)); lvl=7; h,r-ind=1,1
            [3,3]((13,58,62),(7,31,33),(22,98,105)); lvl=7; h,r-ind=1,1
            [3,3]((15,67,72),(13,58,62),(22,98,105)); lvl=7; h,r-ind=1,1
          [3,3]((4,18,19),(13,58,62),(7,31,33)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,10),(15,67,72),(6,27,29)); lvl=6; h,r-ind=1,1
          [3,3]((3,14,15),(2,9,10),(6,27,29)); lvl=6; h,r-ind=1,1
          [4,3]((4,18,19),(13,58,62),(15,67,72),(6,27,29)); lvl=6; h,r-ind=1,1
            [3,3]((19,85,91),(15,67,72),(13,58,62)); lvl=7; h,r-ind=1,1
            [3,3]((4,18,19),(19,85,91),(13,58,62)); lvl=7; h,r-ind=1,1
            [3,3]((6,27,29),(19,85,91),(15,67,72)); lvl=7; h,r-ind=1,1
            [3,3]((4,18,19),(6,27,29),(19,85,91)); lvl=7; h,r-ind=1,1
          [3,3]((3,14,15),(4,18,19),(6,27,29)); lvl=6; h,r-ind=1,1
        [3,3]((9,39,41),(3,13,14),(8,35,37)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,23),(9,39,41),(8,35,37)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,10),(3,13,14),(12,53,57)); lvl=5; h,r-ind=1,1
      [3,3]((4,19,21),(3,14,15),(2,9,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,7),(1,4,4),(2,7,8)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,6),(2,7,7)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,6,6),(2,12,13)); lvl=2; h,r-ind=1,1
[3,3]((1,6,7),(2,12,13),(0,1,0)); lvl=1; h,r-ind=1,1
[3,3]((1,6,13),(1,6,7),(0,1,0)); lvl=1; h,r-ind=6,6; optimized-h
[5,3]((1,1,2),(2,7,14),(1,6,7),(2,12,13),(2,2,3)); lvl=1; h,r-ind=5,1
  [3,3]((1,4,6),(1,4,7),(2,9,14)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,6),(1,6,7),(1,5,6),(2,9,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,7),(1,5,6),(1,6,7),(3,14,19)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,6),(1,6,7),(2,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(1,6,7),(2,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,19),(1,5,6),(2,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(3,14,19),(2,10,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(1,5,7),(3,14,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,5,7),(2,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,5,6),(3,14,19)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,7),(2,12,13),(1,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,9),(2,7,8),(2,12,13),(1,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(1,4,5),(2,12,13),(4,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,11),(1,4,5),(4,19,21)); lvl=4; h,r-ind=1,1
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      [4,3]((2,10,11),(4,21,23),(5,24,28),(1,4,5)); lvl=4; h,r-ind=1,1
        [4,3]((2,10,11),(6,29,33),(3,15,17),(4,21,23)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((6,29,33),(5,25,28),(3,15,17)); lvl=6; h,r-ind=1,1
          [3,3]((4,21,23),(5,25,28),(3,15,17)); lvl=6; h,r-ind=1,1
          [3,3]((2,10,11),(4,21,23),(5,25,28)); lvl=6; h,r-ind=1,1
          [3,3]((2,10,11),(6,29,33),(5,25,28)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(2,10,11),(6,29,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(6,29,33),(3,15,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(5,24,28),(3,15,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,6),(5,24,28),(1,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,6),(2,12,13),(4,21,23),(5,24,28)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,15,17),(2,11,12),(4,21,23)); lvl=5; h,r-ind=1,1
        [3,3]((3,15,17),(7,36,41),(2,11,12)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,5,6),(2,12,13),(7,36,41),(2,11,12)); lvl=5; h,r-ind=1,3
          [3,3]((2,12,13),(3,16,18),(2,11,12)); lvl=6; h,r-ind=1,1
          [3,3]((7,36,41),(3,16,18),(2,11,12)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,6),(7,36,41),(3,16,18)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,6),(2,12,13),(3,16,18)); lvl=6; h,r-ind=1,1
        [4,3]((1,5,6),(5,24,28),(3,15,17),(7,36,41)); lvl=5; h,r-ind=1,3
          [3,3]((3,15,17),(4,20,23),(5,24,28)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,6),(4,20,23),(5,24,28)); lvl=6; h,r-ind=1,1
          [3,3]((7,36,41),(3,15,17),(4,20,23)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,6),(7,36,41),(4,20,23)); lvl=6; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,8),(4,19,21)); lvl=3; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,7,9),(1,4,5),(2,7,8)); lvl=3; h,r-ind=1,1
  [4,3]((2,7,9),(4,14,21),(1,4,6),(1,5,6)); lvl=2; h,r-ind=3,3; alert-r-inc
    [4,3]((2,7,10),(4,14,21),(5,19,27),(1,4,6)); lvl=3; h,r-ind=1,3
      [3,3]((3,11,16),(1,4,6),(4,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,10),(3,11,16),(4,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,16),(5,19,27),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,10),(3,11,16),(5,19,27)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,5),(1,5,6),(5,19,27),(1,4,6)); lvl=3; h,r-ind=1,3
      [3,3]((1,5,6),(2,8,11),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((5,19,27),(2,8,11),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,6),(2,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((5,19,27),(1,4,5),(2,8,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,10),(5,19,27)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((2,7,9),(1,4,5),(2,7,10)); lvl=3; h,r-ind=1,1
  [4,3]((2,2,3),(1,2,3),(2,7,9),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,8),(1,3,4),(2,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,8),(4,9,11),(1,3,4)); lvl=3; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,2,3),(4,9,11),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((4,7,9),(2,4,5),(1,3,4),(5,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((6,13,17),(1,3,4),(2,4,5)); lvl=5; h,r-ind=1,1
        [4,3]((4,7,9),(6,13,17),(3,6,8),(2,4,5)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,6,8),(5,10,13),(6,13,17)); lvl=6; h,r-ind=1,1
          [3,3]((2,4,5),(5,10,13),(6,13,17)); lvl=6; h,r-ind=1,1
          [3,3]((4,7,9),(3,6,8),(5,10,13)); lvl=6; h,r-ind=1,1
          [3,3]((2,4,5),(4,7,9),(5,10,13)); lvl=6; h,r-ind=1,1
        [3,3]((6,13,17),(3,6,8),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((5,11,15),(3,6,8),(1,3,4)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(5,11,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(2,2,3),(4,7,9),(5,11,15)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,6,8),(4,7,9),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((3,6,8),(7,13,18),(2,3,4)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,3),(2,2,3),(7,13,18),(2,3,4)); lvl=5; h,r-ind=1,3
          [3,3]((3,5,7),(2,3,4),(2,2,3)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(3,5,7),(2,2,3)); lvl=6; h,r-ind=1,1
          [3,3]((7,13,18),(3,5,7),(2,3,4)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(7,13,18),(3,5,7)); lvl=6; h,r-ind=1,1
        [4,3]((1,2,3),(5,11,15),(3,6,8),(7,13,18)); lvl=5; h,r-ind=1,3
          [3,3]((4,8,11),(5,11,15),(3,6,8)); lvl=6; h,r-ind=1,1
          [3,3]((7,13,18),(4,8,11),(3,6,8)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(7,13,18),(4,8,11)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(4,8,11),(5,11,15)); lvl=6; h,r-ind=1,1
      [3,3]((2,4,5),(4,9,11),(1,3,4)); lvl=4; h,r-ind=1,1
  [5,3]((1,3,6),(1,3,5),(4,14,21),(1,4,6),(1,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((4,14,21),(2,7,11),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((4,14,23),(3,10,17),(2,7,11),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,17,28),(1,3,5),(3,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((4,14,23),(5,17,28),(3,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,17,28),(2,7,11),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,14,23),(5,17,28),(2,7,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(3,10,17),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(4,14,21),(2,7,11)); lvl=3; h,r-ind=1,1
    [4,3]((3,11,18),(4,14,23),(1,4,6),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,23),(2,7,11),(5,18,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,11),(5,18,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,18),(1,4,6),(5,18,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,18),(4,14,23),(5,18,29)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((3,11,18),(1,4,7),(1,4,6)); lvl=3; h,r-ind=1,1
      [5,3]((1,3,6),(3,11,18),(4,14,23),(3,10,17),(1,4,7)); lvl=3; h,r-ind=1,1
        [3,3]((4,14,23),(2,7,12),(3,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(2,7,12),(3,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(1,3,6),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,18),(4,14,23),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(3,11,18),(2,7,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(2,7,14),(1,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,10),(1,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,7,9),(1,3,5),(4,14,21)); lvl=2; h,r-ind=3,3; alert-r-inc
      [4,3]((1,3,5),(5,16,24),(2,7,10),(4,14,21)); lvl=3; h,r-ind=1,3
        [3,3]((5,16,24),(3,10,15),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,21),(3,10,15),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,14,21),(3,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(5,16,24),(3,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(5,16,24),(2,7,10)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((1,3,4),(2,7,9),(2,7,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,5),(1,2,3),(1,3,4),(5,16,24)); lvl=3; h,r-ind=1,3
        [3,3]((2,6,9),(1,3,4),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,6,9),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,24),(2,6,9),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(5,16,24),(2,6,9)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,2),(2,5,10),(1,2,3),(1,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(2,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,12),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(1,2,3),(1,3,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,2),(1,2,4),(3,7,12),(1,2,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,4),(3,7,12),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(3,7,12),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(1,2,3),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(1,2,4),(2,4,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,6,13),(1,1,2),(2,7,14)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(1,6,13),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,6,13),(2,7,14),(1,6,7)); lvl=1; h,r-ind=30,30; alert-h-inc
    [3,3]((1,4,8),(2,7,14),(1,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,8),(2,9,18),(1,6,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,10),(2,9,17),(2,9,18),(1,6,13)); lvl=2; h,r-ind=3,3
      [3,3]((1,5,10),(2,9,18),(2,9,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,9),(1,5,10),(2,9,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,9),(1,6,10),(1,5,10),(2,12,23)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,10),(1,6,11),(3,16,30)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,9),(1,6,10),(1,6,11),(3,16,30)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,20),(1,6,10),(1,6,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,30),(2,11,20),(1,6,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(3,16,30),(2,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(2,11,20),(1,6,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(1,5,9),(3,16,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(2,12,23),(1,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(1,6,13),(2,12,23)); lvl=3; h,r-ind=3,3; optimized-h
      [3,3]((1,5,10),(1,6,13),(2,9,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,7),(2,9,14),(1,6,10),(2,9,17)); lvl=2; h,r-ind=9,3
      [4,3]((1,5,8),(1,5,9),(4,18,31),(2,9,17)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,9),(4,19,33),(2,9,16),(2,9,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,25),(4,19,33),(2,9,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,17),(3,14,25),(2,9,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(2,9,17),(3,14,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(3,14,25),(4,19,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(1,5,9),(4,19,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(4,19,33),(2,9,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(4,18,31),(2,9,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,7),(1,5,8),(2,9,14),(4,18,31)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,8),(2,9,15),(4,18,31)); lvl=4; h,r-ind=1,1
        [3,3]((4,19,30),(1,5,8),(2,9,15)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,7),(4,19,30),(2,9,14),(2,9,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,22),(2,9,14),(2,9,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,30),(3,14,22),(2,9,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(4,19,30),(3,14,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(3,14,22),(2,9,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(4,19,30),(1,5,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,7),(2,12,17),(1,5,7),(1,5,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,7),(1,5,8),(3,16,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(1,5,8),(3,16,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(2,12,17),(1,5,8)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,7),(1,6,8),(1,5,7),(3,16,23)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,8),(3,16,23),(2,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(3,16,23),(2,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(1,6,8),(2,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(1,6,7),(2,11,15)); lvl=5; h,r-ind=1,1
```

```
      [4,3]((2,12,17),(1,5,8),(1,6,10),(1,5,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,8),(1,5,9),(3,16,26)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,10),(1,6,9),(1,5,9),(3,16,26)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,18),(1,6,9),(3,16,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(2,11,18),(3,16,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,10),(2,11,18),(1,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(1,6,10),(2,11,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,9),(1,5,8),(3,16,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,17),(1,6,9),(1,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,17),(1,4,8),(2,9,18)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,7),(2,9,14),(2,9,17),(1,4,8)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,8),(5,21,38),(2,9,17),(4,18,31)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,9,16),(3,13,23),(7,30,55)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,4,8),(2,9,17),(2,9,16),(7,30,55)); lvl=4; h,r-ind=1,3
          [3,3]((2,9,17),(3,13,24),(2,9,16)); lvl=5; h,r-ind=1,1
          [3,3]((7,30,55),(3,13,24),(2,9,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,8),(7,30,55),(3,13,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,8),(2,9,17),(3,13,24)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,8),(5,21,38),(3,13,23),(7,30,55)); lvl=4; h,r-ind=1,3
          [3,3]((3,13,23),(4,17,31),(5,21,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,8),(4,17,31),(5,21,38)); lvl=5; h,r-ind=1,1
          [3,3]((7,30,55),(3,13,23),(4,17,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,8),(7,30,55),(4,17,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,16),(3,13,23),(4,18,31)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,7),(5,21,38),(2,9,14),(4,18,31)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,13,23),(2,9,15),(4,18,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,23),(2,9,15),(7,30,52)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,4,7),(2,9,15),(2,9,14),(7,30,52)); lvl=4; h,r-ind=1,3
          [3,3]((3,13,22),(2,9,15),(2,9,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(3,13,22),(2,9,14)); lvl=5; h,r-ind=1,1
          [3,3]((7,30,52),(3,13,22),(2,9,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(7,30,52),(3,13,22)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,7),(5,21,38),(3,13,23),(7,30,52)); lvl=4; h,r-ind=1,3
          [3,3]((5,21,38),(4,17,30),(3,13,23)); lvl=5; h,r-ind=1,1
          [3,3]((7,30,52),(4,17,30),(3,13,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(7,30,52),(4,17,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(5,21,38),(4,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(1,4,8),(5,21,38)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(1,4,8),(2,7,14)); lvl=2; h,r-ind=1,1
```

13.14 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,2,13)); lvl=0; h,r-ind=13,169
  [3,3]((1,1,6),(1,0,0),(2,2,7)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,2,7)); lvl=1; h,r-ind=7,49; optimized-h
  [3,3]((0,1,0),(1,1,6),(2,2,7)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((2,2,13),(0,1,0),(1,1,6)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,13),(1,1,6),(1,0,0)); lvl=1; h,r-ind=1,1
```

13.15 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,13)); lvl=0; h,r-ind=13,169
  [3,3]((1,0,0),(1,1,4),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((2,3,10),(4,6,13),(3,4,15),(1,1,4),(2,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,9),(4,6,13),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,9),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((6,8,23),(2,3,8),(1,1,3),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,8),(3,4,11),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,11),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,23),(1,1,3),(3,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,23),(2,3,8),(3,4,11)); lvl=3; h,r-ind=1,1
    [4,3]((6,8,23),(3,4,14),(1,1,4),(1,1,3)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,14),(6,8,25),(1,1,4),(6,7,23)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,1,4),(9,11,37),(4,5,16),(6,7,23)); lvl=4; h,r-ind=1,3
          [3,3]((5,6,20),(9,11,37),(4,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,23),(5,6,20),(4,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(6,7,23),(5,6,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(5,6,20),(9,11,37)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,13),(9,11,37),(4,5,16)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,1,4),(3,4,14),(3,4,13),(9,11,37)); lvl=4; h,r-ind=1,3
          [3,3]((4,5,17),(3,4,13),(3,4,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(4,5,17),(3,4,14)); lvl=5; h,r-ind=1,1
          [3,3]((9,11,37),(4,5,17),(3,4,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(9,11,37),(4,5,17)); lvl=5; h,r-ind=1,1
```

```
      [3,3]((3,4,13),(4,5,16),(6,8,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,4),(6,7,23)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,3),(3,4,12),(6,8,25),(6,7,23)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,16),(3,4,12),(6,8,25),(8,10,31)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,12),(6,8,25),(7,9,28)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,16),(6,8,25),(7,9,28)); lvl=5; h,r-ind=1,1
        [3,3]((8,10,31),(3,4,12),(7,9,28)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,16),(8,10,31),(7,9,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,16),(8,10,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,16),(6,7,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,12),(8,10,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,12),(6,8,23)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,15),(3,4,14),(1,1,4)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,10),(6,8,23),(2,3,8),(3,4,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(2,3,8),(6,8,23)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,9),(6,8,25),(3,4,12),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,21),(3,4,12),(6,8,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(5,7,21),(6,8,25)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,21),(2,3,8),(3,4,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(5,7,21),(2,3,8)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,10),(2,3,9),(3,4,14),(6,8,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(3,4,13),(6,8,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(7,10,32),(3,4,13)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,10),(7,10,32),(3,4,14),(3,4,13)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,23),(3,4,14),(3,4,13)); lvl=5; h,r-ind=1,1
        [3,3]((7,10,32),(5,7,23),(3,4,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(7,10,32),(5,7,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(5,7,23),(3,4,14)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,9),(2,3,10),(7,10,32)); lvl=4; h,r-ind=1,1
  [3,3]((2,3,10),(3,4,15),(3,4,14)); lvl=2; h,r-ind=1,1
  [3,3]((2,2,5),(1,1,3),(3,4,9)); lvl=2; h,r-ind=1,1
[3,3]((3,4,16),(3,4,15),(1,1,4)); lvl=1; h,r-ind=1,1
[3,3]((2,3,13),(3,4,16),(1,1,4)); lvl=1; h,r-ind=1,1
[6,3]((3,5,18),(2,3,10),(3,5,16),(2,3,12),(3,4,16),(3,4,15)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,11),(3,5,16),(2,3,10)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,11),(3,4,15),(2,3,10)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,11),(3,4,16),(3,4,15)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,11),(2,3,12),(3,4,16)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,11),(3,5,17),(3,5,16)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,18),(2,3,11),(3,5,17)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,18),(2,3,11),(2,3,12)); lvl=2; h,r-ind=1,1
[3,3]((2,3,13),(3,5,18),(2,3,12)); lvl=1; h,r-ind=1,1
[3,3]((2,3,13),(2,3,12),(3,4,16)); lvl=1; h,r-ind=1,1
[5,3]((2,4,7),(4,6,13),(0,1,0),(1,0,0),(2,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,8),(1,1,2),(3,4,9),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(4,5,11),(2,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,9),(4,5,11),(2,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,8),(1,1,2),(4,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,9),(3,4,8),(4,5,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,2),(1,0,0),(2,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,2,3),(1,1,2),(1,0,0)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,2),(2,2,3),(1,0,0)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((1,1,1),(2,2,3),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,5),(4,6,11),(3,4,8),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(4,6,11),(5,7,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(4,6,11),(5,7,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(5,7,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,8),(5,7,13)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,5),(1,2,2),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(1,1,2),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(1,2,2),(2,3,4)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,3),(3,5,9),(2,3,5),(4,6,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(4,6,11),(5,8,14)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,9),(4,6,11),(5,8,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,9),(5,8,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(5,8,14)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,3),(2,3,5),(0,1,0),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(1,2,2),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(0,1,0),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,4,5)); lvl=3; h,r-ind=1,1
  [3,3]((2,4,7),(1,2,3),(0,1,0)); lvl=2; h,r-ind=1,1
  [4,3]((2,4,7),(3,5,10),(1,2,3),(3,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,13),(3,5,10),(3,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(4,7,13),(3,5,9)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,4,7),(1,2,3),(4,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(4,7,13),(3,5,10)); lvl=3; h,r-ind=1,1
    [6,3]((4,6,13),(3,5,10),(3,5,9),(4,6,11),(3,4,8),(3,4,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,6),(3,5,9),(3,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(2,3,6),(3,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(2,3,6),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,5,9),(4,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(4,6,11),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,4,9),(3,4,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,5),(2,4,7),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((3,5,18),(1,2,5),(3,5,16),(0,1,0)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,6),(6,11,33),(1,2,5),(0,1,0)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((1,2,5),(2,4,11),(6,11,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(2,4,11),(6,11,33)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,5),(2,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(0,1,0),(2,4,11)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,22),(6,11,33),(3,5,16),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,5),(5,9,27),(6,11,33)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,22),(5,9,27),(6,11,33)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,22),(3,5,16),(5,9,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,16),(1,2,5),(5,9,27)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,17),(4,7,22),(3,5,16)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,6),(3,5,17),(4,7,22),(6,11,33)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,17),(5,9,28),(4,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,33),(5,9,28),(4,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(3,5,17),(5,9,28)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,33),(1,2,6),(5,9,28)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(3,5,18),(3,5,17)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,13),(3,5,18),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((2,3,10),(1,2,5),(3,5,16),(2,4,7),(4,6,13)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,10),(2,3,8),(6,10,25),(3,5,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,8),(3,5,13),(6,10,25)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,9),(2,3,8),(6,10,27),(3,5,13)); lvl=3; h,r-ind=1,1
        [3,3]((5,8,22),(6,10,27),(3,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(5,8,22),(3,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(2,3,8),(5,8,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(5,8,22),(6,10,27)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,10),(3,5,15),(2,3,9),(6,10,27)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,9),(3,5,14),(6,10,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(7,11,33),(3,5,14)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,10),(7,11,33),(3,5,15),(3,5,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,15),(5,8,24),(3,5,14)); lvl=5; h,r-ind=1,1
          [3,3]((7,11,33),(5,8,24),(3,5,14)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,10),(7,11,33),(5,8,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,10),(3,5,15),(5,8,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,9),(2,3,10),(7,11,33)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,5),(1,2,4),(6,10,25),(3,5,15)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,13),(1,2,4),(6,10,25)); lvl=3; h,r-ind=1,1
      [4,3]((6,11,27),(6,10,27),(3,5,13),(1,2,4)); lvl=3; h,r-ind=1,1
        [4,3]((6,10,27),(4,7,18),(3,5,13),(8,14,35)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,7,18),(8,14,35),(7,12,31)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,13),(8,14,35),(7,12,31)); lvl=5; h,r-ind=1,1
          [3,3]((6,10,27),(4,7,18),(7,12,31)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,13),(6,10,27),(7,12,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(3,5,13),(8,14,35)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(4,7,18),(8,14,35)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(6,11,27),(4,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(6,11,27),(1,2,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,5),(6,11,27),(3,5,15),(6,10,27)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((4,7,18),(3,5,14),(6,10,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,18),(9,16,42),(3,5,14)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,5),(9,16,42),(3,5,15),(3,5,14)); lvl=4; h,r-ind=1,3
          [3,3]((4,7,19),(3,5,15),(3,5,14)); lvl=5; h,r-ind=1,1
          [3,3]((9,16,42),(4,7,19),(3,5,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(9,16,42),(4,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(4,7,19),(3,5,15)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,5),(4,7,18),(6,11,27),(9,16,42)); lvl=4; h,r-ind=1,3
          [3,3]((6,11,27),(5,9,23),(4,7,18)); lvl=5; h,r-ind=1,1
          [3,3]((9,16,42),(5,9,23),(4,7,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(6,11,27),(5,9,23)); lvl=5; h,r-ind=1,1
          [3,3]((9,16,42),(1,2,5),(5,9,23)); lvl=5; h,r-ind=1,1
    [3,3]((3,5,16),(2,3,10),(3,5,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(3,5,16),(3,5,15)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(2,3,7),(2,3,8),(6,10,25)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,7),(3,5,12),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,25),(3,5,12),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(6,10,25),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,7),(3,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,10),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,10),(4,6,13),(2,3,7)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,2,4),(2,4,7),(3,5,10)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,13),(1,0,0),(1,1,4)); lvl=1; h,r-ind=1,1
```

13.16 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,4,13)); lvl=0; h,r-ind=13,169
  [3,3]((1,1,2),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,13),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,1,2),(2,4,7),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(1,1,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,2),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(1,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,2),(1,1,1),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,3),(1,1,1),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,2),(1,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,7),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,7),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
  [5,3]((1,1,2),(1,1,3),(2,3,9),(2,4,7),(1,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,4),(2,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(4,5,12),(2,3,7),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,9),(2,3,7),(4,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,9),(4,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,9),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,7),(2,3,8),(1,2,5),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,12),(1,2,5),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(3,5,12),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,7),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,12),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,8),(2,3,9),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(1,1,3),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(4,5,12),(1,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,12),(2,3,7),(2,3,8),(1,1,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,7),(2,3,8),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,8),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(2,3,7),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,12),(3,4,10)); lvl=3; h,r-ind=1,1
  [3,3]((2,4,13),(1,1,3),(2,3,9)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,9),(1,2,6),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,6),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,13),(2,3,9),(1,2,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,13),(1,2,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,7),(1,2,5)); lvl=1; h,r-ind=3,3; optimized-h
```

13.17 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,5,13)); lvl=0; h,r-ind=13,169
  [5,3]((1,3,4),(2,5,9),(1,2,4),(1,2,3),(2,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,8),(1,2,4),(2,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,8),(2,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(3,8,11),(2,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,8),(4,10,15),(3,7,11),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,11),(4,10,15),(5,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(4,10,15),(5,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,8),(5,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,11),(5,12,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(3,8,11),(2,5,8),(4,10,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,8),(4,10,15),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,11),(4,10,15),(5,13,19)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,3,4),(2,5,8),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,11),(1,3,4),(5,13,19)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,11),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((3,8,11),(4,10,15),(3,7,11),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((4,10,15),(3,7,11),(9,22,33)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(2,5,7),(3,7,11),(9,22,33)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,18),(9,22,33),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(5,12,18),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,18),(3,7,11),(9,22,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(5,12,18),(3,7,11)); lvl=4; h,r-ind=1,1
      [4,3]((3,8,11),(2,5,7),(4,10,15),(9,22,33)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,15,22),(9,22,33),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,11),(6,15,22),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((6,15,22),(4,10,15),(9,22,33)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,11),(6,15,22),(4,10,15)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,11),(2,6,7),(1,2,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((0,1,0),(1,0,0),(1,2,3),(2,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(1,2,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,6,7),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,4),(2,6,7)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,5,12),(1,3,4),(2,5,9)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,9),(4,10,21)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,3,6),(1,3,5),(2,5,12),(4,10,21)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,11),(4,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,22),(1,3,5),(2,5,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,6),(4,11,22),(2,5,12),(2,5,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,12),(3,8,17),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,22),(3,8,17),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(2,5,12),(3,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,22),(1,3,6),(3,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(4,11,22),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,6),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,5),(2,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,4),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,13),(0,1,0),(2,5,12)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,2,5),(2,5,12),(2,5,9),(1,2,4)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,4),(5,11,24),(2,5,9),(4,10,21)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,7,15),(2,5,10),(4,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,15),(7,16,33),(2,5,10)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,4),(2,5,9),(7,16,33),(2,5,10)); lvl=3; h,r-ind=1,3
        [3,3]((2,5,10),(3,7,14),(2,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(3,7,14),(2,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,33),(2,5,10),(3,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(7,16,33),(3,7,14)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,4),(5,11,24),(3,7,15),(7,16,33)); lvl=3; h,r-ind=1,3
        [3,3]((3,7,15),(5,11,24),(4,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(5,11,24),(4,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,33),(3,7,15),(4,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(7,16,33),(4,9,19)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,5),(5,11,24),(2,5,12),(4,10,21)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((2,5,11),(3,7,15),(7,16,36)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,5),(2,5,12),(2,5,11),(7,16,36)); lvl=3; h,r-ind=1,3
        [3,3]((3,7,16),(2,5,11),(2,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(3,7,16),(2,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,36),(3,7,16),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(7,16,36),(3,7,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,5),(5,11,24),(3,7,15),(7,16,36)); lvl=3; h,r-ind=1,3
        [3,3]((3,7,15),(5,11,24),(4,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(5,11,24),(4,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,36),(1,2,5),(4,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,36),(3,7,15),(4,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(3,7,15),(4,10,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,4),(5,11,24)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,13),(1,2,5),(2,5,12)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,7),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,2),(2,3,7),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,5),(1,0,0),(2,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,13),(1,2,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,5),(2,3,7),(1,2,4)); lvl=1; h,r-ind=1,1
```

13.18 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,6,13)); lvl=0; h,r-ind=13,169
  [3,3]((1,3,6),(1,2,4),(1,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,1,2),(2,6,7),(2,2,3),(1,2,4),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,3),(2,6,7)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,4),(1,2,3),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(2,4,5),(1,2,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,2),(2,2,3),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,6,7),(1,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,6,7),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,3),(0,1,0),(2,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(1,3,3),(1,2,2),(2,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(4,10,11)); lvl=3; h,r-ind=1,1
      [4,3]((2,6,7),(2,5,6),(1,3,3),(4,10,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,9),(2,5,6),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(3,8,9),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(3,8,9),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=4; h,r-ind=1,1
      [4,3]((2,4,5),(2,5,6),(1,2,2),(4,10,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,8),(2,5,6),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,8),(1,2,2),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,8),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
    [4,3]((2,2,3),(2,4,5),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,1
      [4,3]((2,4,5),(2,3,4),(1,2,2),(4,6,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,6),(2,3,4),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,5,6),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,2),(4,6,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(2,2,3),(2,3,4),(4,6,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,7),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(4,6,7),(3,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(1,2,2),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((2,6,13),(1,1,2),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,6,13),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,6),(1,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,6,13),(0,1,0),(1,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((2,6,13),(1,3,6),(1,2,4)); lvl=1; h,r-ind=1,1
```

13.19 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,7,13)); lvl=0; h,r-ind=13,169
  [6,3]((2,7,12),(4,7,12),(2,5,9),(5,17,30),(1,3,3),(2,7,7)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,5),(2,7,12),(4,14,19),(2,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,14),(2,7,10),(4,14,19)); lvl=3; h,r-ind=1,1
      [5,3]((5,16,24),(9,29,44),(3,10,14),(2,7,10),(3,10,15)); lvl=3; h,r-ind=1,1
        [4,3]((3,10,15),(8,26,39),(7,23,34),(12,40,59)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((10,33,49),(7,23,34),(8,26,39)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,15),(10,33,49),(8,26,39)); lvl=5; h,r-ind=1,1
          [3,3]((12,40,59),(10,33,49),(7,23,34)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,15),(12,40,59),(10,33,49)); lvl=5; h,r-ind=1,1
        [5,3]((4,13,19),(3,10,14),(2,7,10),(7,23,34),(12,40,59)); lvl=4; h,r-ind=1,1
          [3,3]((9,30,44),(2,7,10),(12,40,59)); lvl=5; h,r-ind=1,1
          [3,3]((7,23,34),(9,30,44),(12,40,59)); lvl=5; h,r-ind=1,1
          [3,3]((4,13,19),(7,23,34),(13,43,63)); lvl=5; h,r-ind=1,1
          [3,3]((9,30,44),(15,50,73),(2,7,10)); lvl=5; h,r-ind=1,1
          [3,3]((15,50,73),(6,20,29),(2,7,10)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,14),(6,20,29),(2,7,10)); lvl=5; h,r-ind=1,1
          [3,3]((4,13,19),(3,10,14),(6,20,29)); lvl=5; h,r-ind=1,1
          [4,3]((4,13,19),(13,43,63),(15,50,73),(6,20,29)); lvl=5; h,r-ind=1,1
            [3,3]((19,63,92),(15,50,73),(13,43,63)); lvl=6; h,r-ind=1,1
            [3,3]((4,13,19),(19,63,92),(13,43,63)); lvl=6; h,r-ind=1,1
            [3,3]((6,20,29),(4,13,19),(19,63,92)); lvl=6; h,r-ind=1,1
            [3,3]((6,20,29),(19,63,92),(15,50,73)); lvl=6; h,r-ind=1,1
          [4,3]((7,23,34),(13,43,63),(9,30,44),(15,50,73)); lvl=5; h,r-ind=1,1
            [3,3]((9,30,44),(15,50,73),(22,73,107)); lvl=6; h,r-ind=1,1
```

```
          [3,3]((13,43,63),(15,50,73),(22,73,107)); lvl=6; h,r-ind=1,1
          [3,3]((7,23,34),(9,30,44),(22,73,107)); lvl=6; h,r-ind=1,1
          [3,3]((13,43,63),(7,23,34),(22,73,107)); lvl=6; h,r-ind=1,1
      [3,3]((2,7,10),(3,10,15),(12,40,59)); lvl=4; h,r-ind=1,1
      [3,3]((9,29,44),(3,10,15),(8,26,39)); lvl=4; h,r-ind=1,1
      [4,3]((5,16,24),(4,13,19),(8,26,39),(7,23,34)); lvl=4; h,r-ind=1,1
        [3,3]((12,39,58),(7,23,34),(4,13,19)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,24),(12,39,58),(4,13,19)); lvl=5; h,r-ind=1,1
        [3,3]((8,26,39),(12,39,58),(7,23,34)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,24),(8,26,39),(12,39,58)); lvl=5; h,r-ind=1,1
      [3,3]((9,29,44),(5,16,24),(8,26,39)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,10),(4,14,21),(3,10,15)); lvl=3; h,r-ind=1,1
    [5,3]((1,3,5),(9,29,44),(2,7,12),(4,14,21),(3,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,17,26),(2,7,11),(4,14,21)); lvl=4; h,r-ind=1,1
      [4,3]((3,10,15),(9,30,46),(5,17,26),(4,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((8,27,41),(9,30,46),(5,17,26)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,21),(8,27,41),(5,17,26)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,15),(4,14,21),(8,27,41)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,15),(8,27,41),(9,30,46)); lvl=5; h,r-ind=1,1
      [3,3]((9,29,44),(3,10,15),(4,13,20)); lvl=4; h,r-ind=1,1
      [5,3]((7,23,36),(10,33,51),(9,30,46),(5,17,26),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((6,20,31),(9,30,46),(10,33,51)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,36),(6,20,31),(10,33,51)); lvl=5; h,r-ind=1,1
        [3,3]((6,20,31),(9,30,46),(5,17,26)); lvl=5; h,r-ind=1,1
        [3,3]((6,20,31),(2,7,11),(5,17,26)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,36),(6,20,31),(2,7,11)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,5),(7,23,36),(2,7,11),(2,7,12)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,10,16),(7,23,36),(2,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,12),(3,10,16),(2,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(2,7,12),(3,10,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(3,10,16),(7,23,36)); lvl=5; h,r-ind=1,1
      [4,3]((3,10,15),(10,33,51),(4,13,20),(9,30,46)); lvl=4; h,r-ind=1,1
        [3,3]((13,43,66),(10,33,51),(4,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,15),(13,43,66),(4,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((9,30,46),(13,43,66),(10,33,51)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,15),(9,30,46),(13,43,66)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,5),(7,23,36),(10,33,51),(4,13,20)); lvl=4; h,r-ind=1,1
        [3,3]((7,23,36),(10,33,51),(11,36,56)); lvl=5; h,r-ind=1,1
        [3,3]((4,13,20),(10,33,51),(11,36,56)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(4,13,20),(11,36,56)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(7,23,36),(11,36,56)); lvl=5; h,r-ind=1,1
      [3,3]((9,29,44),(1,3,5),(4,13,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,9),(5,16,24),(3,10,14)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,3,5),(2,6,9),(5,16,24),(9,29,44)); lvl=3; h,r-ind=1,1
      [3,3]((6,19,29),(5,16,24),(2,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(6,19,29),(2,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((6,19,29),(9,29,44),(5,16,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(6,19,29),(9,29,44)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,4),(2,7,7),(4,14,19),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,14),(4,14,19),(2,7,9)); lvl=3; h,r-ind=1,1
    [5,3]((9,29,39),(5,16,22),(3,10,14),(3,10,13),(2,7,9)); lvl=3; h,r-ind=1,1
      [5,3]((7,23,31),(12,40,53),(3,10,14),(4,13,18),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((7,23,31),(9,30,40),(12,40,53)); lvl=5; h,r-ind=1,1
        [3,3]((9,30,40),(2,7,9),(12,40,53)); lvl=5; h,r-ind=1,1
        [4,3]((7,23,31),(9,30,40),(15,50,67),(13,43,58)); lvl=5; h,r-ind=1,1
          [3,3]((9,30,40),(15,50,67),(22,73,98)); lvl=6; h,r-ind=1,1
          [3,3]((13,43,58),(15,50,67),(22,73,98)); lvl=6; h,r-ind=1,1
          [3,3]((7,23,31),(9,30,40),(22,73,98)); lvl=6; h,r-ind=1,1
          [3,3]((13,43,58),(7,23,31),(22,73,98)); lvl=6; h,r-ind=1,1
        [3,3]((9,30,40),(2,7,9),(15,50,67)); lvl=5; h,r-ind=1,1
        [4,3]((15,50,67),(13,43,58),(4,13,18),(6,20,27)); lvl=5; h,r-ind=1,1
          [3,3]((19,63,85),(4,13,18),(13,43,58)); lvl=6; h,r-ind=1,1
          [3,3]((15,50,67),(19,63,85),(13,43,58)); lvl=6; h,r-ind=1,1
          [3,3]((6,20,27),(19,63,85),(4,13,18)); lvl=6; h,r-ind=1,1
          [3,3]((15,50,67),(6,20,27),(19,63,85)); lvl=6; h,r-ind=1,1
        [3,3]((4,13,18),(3,10,14),(6,20,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,9),(3,10,14),(6,20,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,9),(15,50,67),(6,20,27)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,31),(13,43,58),(4,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((3,10,13),(12,40,53),(2,7,9)); lvl=4; h,r-ind=1,1
      [4,3]((5,16,22),(7,23,31),(8,26,35),(4,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((7,23,31),(8,26,35),(12,39,53)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,22),(8,26,35),(12,39,53)); lvl=5; h,r-ind=1,1
        [3,3]((4,13,18),(5,16,22),(12,39,53)); lvl=5; h,r-ind=1,1
        [3,3]((4,13,18),(7,23,31),(12,39,53)); lvl=5; h,r-ind=1,1
      [3,3]((9,29,39),(5,16,22),(8,26,35)); lvl=4; h,r-ind=1,1
      [4,3]((7,23,31),(8,26,35),(3,10,13),(12,40,53)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((10,33,44),(8,26,35),(3,10,13)); lvl=5; h,r-ind=1,1
        [3,3]((12,40,53),(10,33,44),(3,10,13)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,31),(12,40,53),(10,33,44)); lvl=5; h,r-ind=1,1
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        [3,3]((7,23,31),(10,33,44),(8,26,35)); lvl=5; h,r-ind=1,1
      [3,3]((9,29,39),(8,26,35),(3,10,13)); lvl=4; h,r-ind=1,1
    [3,3]((4,14,17),(3,10,13),(2,7,9)); lvl=3; h,r-ind=1,1
    [5,3]((1,3,4),(9,29,39),(2,7,7),(4,14,17),(3,10,13)); lvl=3; h,r-ind=1,1
      [4,3]((4,13,17),(9,30,38),(10,33,42),(3,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((9,30,38),(10,33,42),(13,43,55)); lvl=5; h,r-ind=1,1
        [3,3]((4,13,17),(10,33,42),(13,43,55)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,13),(4,13,17),(13,43,55)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,13),(9,30,38),(13,43,55)); lvl=5; h,r-ind=1,1
      [3,3]((9,29,39),(4,13,17),(3,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(9,29,39),(4,13,17)); lvl=4; h,r-ind=1,1
      [4,3]((4,14,17),(5,17,21),(9,30,38),(3,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((8,27,34),(5,17,21),(9,30,38)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,13),(8,27,34),(9,30,38)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,17),(8,27,34),(5,17,21)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,13),(4,14,17),(8,27,34)); lvl=5; h,r-ind=1,1
      [3,3]((4,14,17),(5,17,21),(2,7,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(4,13,17),(10,33,42),(7,23,29)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,17),(10,33,42),(11,36,46)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,29),(10,33,42),(11,36,46)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(4,13,17),(11,36,46)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,29),(1,3,4),(11,36,46)); lvl=5; h,r-ind=1,1
      [5,3]((5,17,21),(9,30,38),(10,33,42),(2,7,8),(7,23,29)); lvl=4; h,r-ind=1,1
        [3,3]((6,20,25),(7,23,29),(10,33,42)); lvl=5; h,r-ind=1,1
        [3,3]((9,30,38),(6,20,25),(10,33,42)); lvl=5; h,r-ind=1,1
        [3,3]((5,17,21),(9,30,38),(6,20,25)); lvl=5; h,r-ind=1,1
        [3,3]((6,20,25),(2,7,8),(7,23,29)); lvl=5; h,r-ind=1,1
        [3,3]((5,17,21),(6,20,25),(2,7,8)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,4),(2,7,7),(2,7,8),(7,23,29)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,10,12),(2,7,8),(2,7,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(3,10,12),(2,7,7)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,29),(3,10,12),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(7,23,29),(3,10,12)); lvl=5; h,r-ind=1,1
    [3,3]((5,16,22),(2,6,9),(3,10,14)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,3,4),(9,29,39),(5,16,22),(2,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((9,29,39),(6,19,26),(5,16,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(6,19,26),(5,16,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(9,29,39),(6,19,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(1,3,4),(6,19,26)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,4),(1,3,3),(2,7,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(1,3,4),(3,8,12),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(3,8,12),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,7),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,3),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(3,8,12)); lvl=3; h,r-ind=1,1
  [4,3]((4,11,17),(3,8,13),(1,3,5),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((5,14,22),(3,8,13),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(5,14,22),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,17),(2,6,9),(5,14,22)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,17),(5,14,22),(3,8,13)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,4),(3,8,12),(4,11,17),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,12),(4,11,17),(5,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(4,11,17),(5,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(3,8,12),(5,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(1,3,4),(5,14,21)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,3),(3,8,12),(4,11,17),(3,8,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,12),(4,11,17),(9,24,37)); lvl=3; h,r-ind=1,1
    [4,3]((3,8,13),(2,5,8),(4,11,17),(9,24,37)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((6,16,25),(2,5,8),(9,24,37)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,17),(6,16,25),(9,24,37)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,13),(6,16,25),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,17),(3,8,13),(6,16,25)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,8),(3,8,12),(9,24,37)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,13,20),(3,8,12),(9,24,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(5,13,20),(9,24,37)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(5,13,20),(3,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(1,2,3),(5,13,20)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,3),(2,4,7),(3,8,13)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,2,3),(4,7,12),(2,4,7)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,9),(2,4,7),(3,8,13),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,12),(2,4,7),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,12),(1,3,5),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(3,7,12),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(3,7,12),(2,4,7)); lvl=3; h,r-ind=1,1
  [3,3]((7,22,39),(2,5,9),(1,3,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,3,5),(5,17,30),(2,7,12)); lvl=2; h,r-ind=1,1
  [3,3]((7,22,39),(1,3,5),(5,17,30)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[3,3]((0,1,0),(1,3,3),(2,7,7)); lvl=1; h,r-ind=1,1
[3,3]((0,1,0),(2,7,12),(2,7,7)); lvl=1; h,r-ind=10,10; optimized-h
[3,3]((2,7,13),(0,1,0),(2,7,12)); lvl=1; h,r-ind=2,2; optimized-h
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  [3,3]((2,7,13),(2,7,12),(5,17,30)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,7,12),(1,3,3)); lvl=1; h,r-ind=15,15; alert-h-inc
    [4,3]((1,0,0),(3,4,6),(2,3,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [4,3]((7,9,12),(2,3,3),(1,1,1),(2,3,4)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,5),(2,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,12),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,12),(1,1,1),(3,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,6),(7,9,12),(4,5,7),(2,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((6,8,11),(7,9,12),(4,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(6,8,11),(4,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,6),(6,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(6,8,11),(7,9,12)); lvl=4; h,r-ind=1,1
      [4,3]((7,9,12),(4,5,7),(2,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,7),(2,2,3),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(2,2,3),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,12),(4,5,7),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(7,9,12),(5,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(4,5,7),(2,2,3)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(1,2,3),(2,3,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,3),(1,2,2),(4,7,9),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,2),(4,7,9),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(4,7,9),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(2,3,4),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(1,2,2),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,9),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,2),(4,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(3,4,6),(5,7,11),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,11),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,12),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(3,4,6),(5,7,11),(11,15,24)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,6),(7,9,14),(16,21,33),(5,7,11)); lvl=3; h,r-ind=1,1
        [3,3]((7,9,14),(16,21,33),(12,16,25)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(16,21,33),(12,16,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(7,9,14),(12,16,25)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(3,4,6),(12,16,25)); lvl=4; h,r-ind=1,1
      [4,3]((11,15,24),(4,5,8),(16,21,33),(5,7,11)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((4,5,8),(16,21,33),(9,12,19)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(16,21,33),(9,12,19)); lvl=4; h,r-ind=1,1
        [3,3]((11,15,24),(4,5,8),(9,12,19)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(11,15,24),(9,12,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,6),(7,9,14)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,8),(2,2,3),(7,9,14),(16,21,33)); lvl=3; h,r-ind=1,1
        [3,3]((11,14,22),(2,2,3),(7,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((16,21,33),(11,14,22),(7,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(16,21,33),(11,14,22)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(11,14,22),(2,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(4,5,8),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,5),(11,15,24)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((4,7,12),(1,0,0),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,3,5),(5,7,11),(11,15,24)); lvl=2; h,r-ind=1,1
      [3,3]((7,10,16),(11,15,24),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(7,10,16),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,16),(5,7,11),(11,15,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(7,10,16),(5,7,11)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(4,7,12),(2,5,9)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,7,13),(1,0,0),(2,5,9)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,7,13),(2,5,9),(5,17,30)); lvl=1; h,r-ind=6,6; optimized-h
```

13.20 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,8,13)); lvl=0; h,r-ind=13,169
  [5,3]((3,7,11),(1,2,3),(2,6,9),(2,7,11),(5,17,27)); lvl=1; h,r-ind=1,1
    [4,3]((3,9,14),(8,23,36),(10,30,47),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((10,30,47),(8,23,36),(11,32,50)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(8,23,36),(11,32,50)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,14),(10,30,47),(11,32,50)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,9,14),(11,32,50)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,11),(5,14,22),(8,23,36),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((6,16,25),(5,14,22),(8,23,36)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(6,16,25),(8,23,36)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((3,7,11),(6,16,25),(5,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,11),(6,16,25)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(3,9,14),(1,2,3)); lvl=2; h,r-ind=1,1
    [6,3]((4,12,19),(5,14,22),(8,23,36),(10,30,47),(9,28,44),(6,19,30)); lvl=2; h,r-ind=1,1
      [3,3]((10,30,47),(7,21,33),(9,28,44)); lvl=3; h,r-ind=1,1
      [3,3]((6,19,30),(7,21,33),(9,28,44)); lvl=3; h,r-ind=1,1
      [3,3]((4,12,19),(6,19,30),(7,21,33)); lvl=3; h,r-ind=1,1
      [3,3]((5,14,22),(4,12,19),(7,21,33)); lvl=3; h,r-ind=1,1
      [3,3]((8,23,36),(10,30,47),(7,21,33)); lvl=3; h,r-ind=1,1
      [3,3]((5,14,22),(8,23,36),(7,21,33)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,11),(4,12,19),(5,14,22)); lvl=2; h,r-ind=1,1
    [4,3]((3,9,14),(10,30,47),(9,28,44),(2,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((10,30,47),(9,28,44),(12,37,58)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(9,28,44),(12,37,58)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,14),(10,30,47),(12,37,58)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(3,9,14),(12,37,58)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(3,9,14),(2,7,11)); lvl=2; h,r-ind=1,1
    [4,3]((5,17,27),(9,28,44),(6,19,30),(2,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((6,19,30),(9,28,44),(8,26,41)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(9,28,44),(8,26,41)); lvl=3; h,r-ind=1,1
      [3,3]((5,17,27),(6,19,30),(8,26,41)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(5,17,27),(8,26,41)); lvl=3; h,r-ind=1,1
    [3,3]((4,12,19),(5,17,27),(6,19,30)); lvl=2; h,r-ind=1,1
  [3,3]((2,8,13),(2,7,11),(5,17,27)); lvl=1; h,r-ind=1,1
  [4,3]((2,8,13),(1,0,0),(3,7,11),(5,17,27)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,8),(5,15,24),(3,7,11),(4,12,19)); lvl=2; h,r-ind=1,1
      [3,3]((5,15,24),(4,12,19),(6,17,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,11),(4,12,19),(6,17,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(5,15,24),(6,17,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(3,7,11),(6,17,27)); lvl=3; h,r-ind=1,1
    [4,3]((5,15,24),(3,10,16),(5,17,27),(4,12,19)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,16),(5,17,27),(7,22,35)); lvl=3; h,r-ind=1,1
      [3,3]((4,12,19),(5,17,27),(7,22,35)); lvl=3; h,r-ind=1,1
      [3,3]((5,15,24),(3,10,16),(7,22,35)); lvl=3; h,r-ind=1,1
      [3,3]((4,12,19),(5,15,24),(7,22,35)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,13),(3,10,16),(5,17,27)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,13),(5,15,24),(3,10,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,13),(2,5,8),(5,15,24)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,8),(1,0,0),(3,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,13),(2,5,8),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,7,11),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
  [5,3]((1,4,6),(2,7,9),(1,3,4),(2,6,9),(2,7,11)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,10),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,10),(2,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(2,7,10),(5,17,25),(4,13,19)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,10),(5,17,25),(6,20,29)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,19),(5,17,25),(6,20,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,10),(6,20,29)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,19),(1,3,4),(6,20,29)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(2,7,10),(5,17,25),(4,14,21)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,10),(5,17,25),(6,21,31)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,21),(5,17,25),(6,21,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,10),(6,21,31)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,21),(1,4,6),(6,21,31)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(4,13,19),(2,6,9)); lvl=2; h,r-ind=1,1
    [5,3]((2,7,11),(5,17,25),(4,14,21),(4,13,19),(2,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,15),(2,7,11),(4,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((5,17,25),(3,10,15),(4,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((5,17,25),(3,10,15),(4,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,15),(2,6,9),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,15),(4,13,19),(2,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,11),(4,14,21)); lvl=2; h,r-ind=1,1
  [3,3]((2,8,13),(1,4,6),(2,7,11)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,8,13),(1,4,6)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,4,6),(2,7,9),(2,7,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,6),(2,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(2,8,9),(2,7,8),(2,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,8),(3,11,13),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,11,13),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(1,4,5),(3,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(2,7,8),(3,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(2,8,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,9),(1,4,4),(2,7,7),(2,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,12),(2,7,7),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(3,11,12),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(2,8,9),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,11,12),(2,7,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,8,9),(1,4,4)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((0,1,0),(1,4,5),(1,4,6)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,3),(2,3,4),(2,5,6),(1,3,4),(2,6,9)); lvl=1; h,r-ind=1,1
    [6,3]((2,4,5),(3,7,9),(5,12,16),(6,14,19),(5,11,15),(3,6,8)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,16),(3,7,9),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,7,9),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,6,8),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,19),(5,12,16),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,19),(5,11,15),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,8),(5,11,15),(4,9,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(2,3,4),(5,11,15),(3,6,8)); lvl=2; h,r-ind=1,1
      [3,3]((4,8,11),(3,6,8),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,8,11),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,15),(4,8,11),(3,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,15),(4,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(2,3,4),(3,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(3,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,6),(3,7,9),(5,12,16),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,9),(5,12,16),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,12,16),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,7,9),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,6),(4,10,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,7),(6,14,19),(5,11,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(6,14,19),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,15),(6,14,19),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,15),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(7,16,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,6,9),(2,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((5,12,16),(1,3,4),(2,5,7),(6,14,19)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(1,3,4),(7,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,16),(1,3,4),(7,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,19),(5,12,16),(7,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,19),(2,5,7),(7,17,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(1,3,4),(2,5,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(1,3,3),(2,3,4),(2,5,6)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,3),(2,3,3),(2,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,11,13),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(5,11,13),(2,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(1,3,3),(2,5,6),(5,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,3),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,3),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(1,2,2),(3,7,8)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,4),(2,3,3),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,4,5),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,4,5),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(1,1,1),(2,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,1),(2,3,4),(5,8,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(2,3,4),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((2,7,9),(1,3,3),(2,7,7),(2,5,6),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,10,12),(2,7,9),(2,7,8)); lvl=2; h,r-ind=1,1
    [6,3]((3,10,11),(5,16,18),(6,19,22),(5,16,19),(3,10,12),(2,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,15),(5,16,19),(3,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,15),(2,7,8),(3,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,11),(4,13,15),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,18),(3,10,11),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,15),(6,19,22),(5,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,18),(4,13,15),(6,19,22)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,11),(2,7,7),(2,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(3,10,11),(5,16,18),(2,7,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,14),(5,16,18),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,7),(4,13,14),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(4,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(4,13,14),(5,16,18)); lvl=3; h,r-ind=1,1
    [4,3]((5,16,19),(3,10,12),(1,3,4),(2,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,12),(2,7,9),(4,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(4,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,19),(3,10,12),(4,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,16,19),(4,13,16)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,7),(6,19,22),(5,16,19),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((5,16,19),(6,19,22),(7,22,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(6,19,22),(7,22,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,7),(7,22,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,16,19),(7,22,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,6,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,6),(2,6,7)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((1,3,3),(5,16,18),(2,6,7),(6,19,22)); lvl=2; h,r-ind=1,1
      [3,3]((5,16,18),(6,19,22),(7,22,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(6,19,22),(7,22,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(5,16,18),(7,22,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(1,3,3),(7,22,25)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(2,7,7)); lvl=1; h,r-ind=1,1
```

13.21 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,10,13)); lvl=0; h,r-ind=13,169
  [3,3]((2,7,7),(0,1,0),(1,2,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,4,5),(2,9,11),(2,7,7),(2,5,6),(1,2,2)); lvl=1; h,r-ind=1,1
    [4,3]((2,7,8),(2,6,7),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((3,9,10),(1,2,2),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,9,10),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,9,10),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(1,3,3),(3,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,6,7),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,5,6),(2,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(7,27,32),(2,7,8),(2,6,7)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,11,13),(2,7,8),(7,27,32)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,11,13),(7,27,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,11,13),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,6,7),(3,11,13)); lvl=3; h,r-ind=1,1
    [5,3]((4,16,19),(7,27,32),(2,7,8),(1,3,3),(2,8,9)); lvl=2; h,r-ind=1,1
      [5,3]((3,12,14),(2,8,9),(5,19,22),(8,29,33),(1,3,3)); lvl=3; h,r-ind=1,1
        [3,3]((6,22,25),(10,37,42),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,17),(10,37,42),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(4,15,17),(1,3,3)); lvl=4; h,r-ind=1,1
        [4,3]((3,12,14),(9,34,39),(4,15,17),(10,37,42)); lvl=4; h,r-ind=1,1
          [3,3]((9,34,39),(10,37,42),(13,49,56)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,17),(10,37,42),(13,49,56)); lvl=5; h,r-ind=1,1
          [3,3]((3,12,14),(4,15,17),(13,49,56)); lvl=5; h,r-ind=1,1
          [3,3]((3,12,14),(9,34,39),(13,49,56)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,9),(3,12,14),(4,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((8,29,33),(6,22,25),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,19,22),(8,29,33),(6,22,25)); lvl=4; h,r-ind=1,1
        [4,3]((5,19,22),(9,34,39),(6,22,25),(10,37,42)); lvl=4; h,r-ind=1,1
          [3,3]((9,34,39),(10,37,42),(15,56,64)); lvl=5; h,r-ind=1,1
          [3,3]((6,22,25),(10,37,42),(15,56,64)); lvl=5; h,r-ind=1,1
          [3,3]((5,19,22),(9,34,39),(15,56,64)); lvl=5; h,r-ind=1,1
          [3,3]((6,22,25),(5,19,22),(15,56,64)); lvl=5; h,r-ind=1,1
        [3,3]((3,12,14),(5,19,22),(9,34,39)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,8),(8,29,33),(1,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,8),(6,23,27),(5,19,22),(8,29,33)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,23,27),(7,26,30),(5,19,22)); lvl=4; h,r-ind=1,1
        [3,3]((8,29,33),(7,26,30),(5,19,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(8,29,33),(7,26,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(6,23,27),(7,26,30)); lvl=4; h,r-ind=1,1
      [3,3]((7,27,32),(2,7,8),(6,23,27)); lvl=3; h,r-ind=1,1
      [4,3]((4,16,19),(3,12,14),(6,23,27),(5,19,22)); lvl=3; h,r-ind=1,1
        [3,3]((3,12,14),(5,19,22),(9,35,41)); lvl=4; h,r-ind=1,1
        [3,3]((6,23,27),(5,19,22),(9,35,41)); lvl=4; h,r-ind=1,1
        [3,3]((4,16,19),(3,12,14),(9,35,41)); lvl=4; h,r-ind=1,1
        [3,3]((6,23,27),(4,16,19),(9,35,41)); lvl=4; h,r-ind=1,1
      [3,3]((7,27,32),(4,16,19),(6,23,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(2,7,7),(2,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,11),(4,16,19),(2,8,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,4,5),(2,9,11),(4,16,19),(7,27,32)); lvl=2; h,r-ind=1,1
      [3,3]((5,20,24),(4,16,19),(2,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(5,20,24),(2,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((7,27,32),(5,20,24),(4,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(7,27,32),(5,20,24)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(2,4,5),(2,5,6),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(5,10,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(1,1,1),(2,5,6),(5,10,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(3,6,7),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,6,7),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(3,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,1),(2,4,5),(5,10,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,6),(2,4,5),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,5,6),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,5,6),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,5,6)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,5),(3,11,14),(2,4,5),(2,5,6)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((3,8,10),(2,4,5),(3,11,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(3,8,10),(3,11,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,5,6),(3,8,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(3,8,10),(2,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,10,13),(3,11,14),(2,4,5)); lvl=1; h,r-ind=1,2
    [3,3]((3,11,14),(2,10,13),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,10,13),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,11,14),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,4,5),(2,7,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,10,13),(1,4,5),(3,11,14)); lvl=1; h,r-ind=1,1
  [3,3]((2,10,13),(1,4,5),(2,9,11)); lvl=1; h,r-ind=1,1
  [4,3]((2,9,11),(2,7,7),(1,5,6),(0,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((2,8,9),(2,7,7),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,7),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,11),(2,8,9),(2,9,10),(1,4,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,13,15),(2,8,9),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(3,13,15),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,11),(2,9,10),(3,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,11),(3,13,15),(2,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,10),(2,9,9),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,9,9),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(0,1,0),(2,9,10),(2,9,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,10),(1,5,5),(2,9,9)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(2,9,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,9,10),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,6),(1,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,11),(2,9,10)); lvl=2; h,r-ind=1,1
  [3,3]((2,10,13),(1,5,6),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,10,13),(2,9,11),(1,5,6)); lvl=1; h,r-ind=1,1
```

13.22 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,12,13)); lvl=0; h,r-ind=13,169
  [3,3]((2,7,7),(1,1,1),(0,1,0)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,7),(1,6,6),(0,1,0)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((2,12,13),(1,6,6),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,12,13),(2,7,7),(1,6,6)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((2,12,13),(2,7,7),(1,1,1)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(2,12,13),(1,1,1)); lvl=1; h,r-ind=1,1
```

13.23 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,3,13)); lvl=0; h,r-ind=13,169
  [3,3]((1,1,4),(1,0,0),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,2,5)); lvl=1; h,r-ind=5,25; optimized-h
  [3,3]((0,1,0),(1,1,4),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,3,13),(1,1,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,13),(1,1,4)); lvl=1; h,r-ind=1,1
```

13.24 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,4,13)); lvl=0; h,r-ind=13,169
  [5,3]((1,1,3),(2,3,7),(2,4,5),(1,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,6),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,2),(3,4,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(4,6,11),(2,3,6),(3,5,8)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,6),(4,6,11),(5,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,8),(4,6,11),(5,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,6),(5,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,8),(1,2,3),(5,8,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,3),(3,4,8),(4,6,11),(2,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,8),(4,6,11),(5,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(4,6,11),(5,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,6),(5,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,8),(5,7,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(3,4,8),(4,6,11),(3,5,8)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,8),(9,13,24),(4,6,11)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,5),(3,5,8),(9,13,24),(4,6,11)); lvl=3; h,r-ind=1,2; alert-r-inc
```

```
        [3,3]((3,5,8),(6,9,16),(4,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((9,13,24),(6,9,16),(4,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(9,13,24),(6,9,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(3,5,8),(6,9,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,2),(2,3,5),(3,4,8),(9,13,24)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,13),(2,3,5),(9,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,8),(5,7,13),(9,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(5,7,13),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,8),(1,1,2),(5,7,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,5),(3,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,4,5),(3,5,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,4,5),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,2),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,1,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,8),(2,3,7),(0,1,0),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,7),(4,7,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(2,3,8),(2,3,7),(4,7,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,11),(2,3,8),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,14),(3,5,11),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(4,7,14),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,11),(2,3,8)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,4),(1,2,3),(4,7,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,7),(1,2,4),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,7),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,7),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(0,1,0),(2,4,7)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,13),(2,3,8),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,1,3),(5,7,20),(2,3,8),(2,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,11),(5,7,20),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,11),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,7),(3,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,11),(5,7,20)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,13),(1,1,3),(5,7,20)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((1,0,0),(3,4,13),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,13),(5,7,20),(2,3,8)); lvl=1; h,r-ind=1,1
```

13.25 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,6,13)); lvl=0; h,r-ind=13,169
  [3,3]((2,2,3),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,13),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [5,3]((1,2,3),(2,4,5),(2,3,6),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
    [4,3]((5,7,11),(3,4,6),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,8),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,7,11),(4,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,8),(2,2,3)); lvl=3; h,r-ind=1,1
    [4,3]((6,9,14),(5,7,11),(2,3,5),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((7,10,16),(1,1,2),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(7,10,16),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,16),(2,3,5),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(7,10,16),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,6),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(6,9,14),(5,8,12),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(7,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(2,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
    [6,3]((6,9,14),(5,7,11),(3,4,6),(3,5,7),(5,8,12),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(3,5,7),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(5,8,12),(4,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,7),(2,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(3,5,7),(5,8,12),(2,4,5)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(4,7,10)); lvl=3; h,r-ind=1,1
  [3,3]((3,6,13),(2,3,6),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(1,2,4),(2,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,13),(1,2,4),(2,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,13),(0,1,0),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,4,5),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,5),(2,3,4),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(2,3,4),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
```

13.26 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,8,13)); lvl=0; h,r-ind=13,169
  [3,3]((0,1,0),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
  [5,3]((2,5,7),(2,3,4),(1,2,3),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(2,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((6,13,16),(5,11,14),(2,4,5),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,16),(2,4,5),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(1,2,3),(7,15,19)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,7),(3,7,9),(5,11,14),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,12),(3,7,9),(5,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,9,12),(5,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(4,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,5,7),(3,7,9)); lvl=2; h,r-ind=1,1
    [6,3]((2,5,6),(3,7,9),(6,13,16),(5,11,14),(5,11,13),(3,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,11),(3,7,9),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(4,9,11),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(3,7,8),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,16),(5,11,13),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,11),(5,11,14),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,16),(4,9,11),(5,11,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((6,13,16),(5,11,13),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((7,15,18),(1,2,2),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,16),(7,15,18),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(6,13,16),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(7,15,18),(1,2,2)); lvl=3; h,r-ind=1,1
    [4,3]((5,11,13),(3,7,8),(1,2,2),(2,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,8),(2,5,5),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(3,7,8),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,11,13),(4,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(3,7,8),(2,5,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((2,5,7),(1,3,4),(0,1,0),(2,5,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,3),(0,1,0),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(1,3,3),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(2,5,6),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(2,5,6),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(1,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,7),(3,7,11),(4,10,15),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,11),(4,10,15),(5,12,18)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(4,10,15),(5,12,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(5,12,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,7,11),(5,12,18)); lvl=2; h,r-ind=1,1
```

```
  [3,3]((1,0,0),(3,7,11),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,7),(1,3,4),(4,10,15),(3,8,12)); lvl=1; h,r-ind=1,1
    [3,3]((5,13,19),(3,8,12),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(5,13,19),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((4,10,15),(5,13,19),(3,8,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(4,10,15),(5,13,19)); lvl=2; h,r-ind=1,1
  [4,3]((3,7,11),(2,5,8),(4,10,15),(3,8,12)); lvl=1; h,r-ind=1,1
    [3,3]((6,15,23),(3,8,12),(2,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,11),(6,15,23),(2,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((4,10,15),(6,15,23),(3,8,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,11),(4,10,15),(6,15,23)); lvl=2; h,r-ind=1,1
  [3,3]((3,8,13),(2,5,8),(3,8,12)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,8,13),(2,5,8)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,7,11),(2,5,8)); lvl=1; h,r-ind=1,1
  [3,3]((3,8,13),(1,3,4),(3,8,12)); lvl=1; h,r-ind=1,1
  [3,3]((3,8,13),(1,3,4),(0,1,0)); lvl=1; h,r-ind=1,1
```

13.27 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,11,13)); lvl=0; h,r-ind=13,169
  [4,3]((3,7,8),(3,9,10),(1,1,1),(2,5,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,9,10),(1,2,2),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(3,9,10),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(3,7,8),(3,8,9),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,8),(3,8,9),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,8,9),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,7,8),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(4,9,10)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((3,11,12),(3,9,10),(1,4,4),(2,5,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,9,10),(2,5,5),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,11),(3,9,10),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((3,10,11),(3,11,12),(1,4,4),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,4),(3,11,12),(4,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,11),(3,11,12),(4,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,10,11),(4,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,4,4),(4,14,15)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,11,13),(3,11,12),(1,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,11,13),(1,4,4)); lvl=1; h,r-ind=1,1
  [4,3]((2,6,7),(3,7,8),(3,9,10),(4,13,15)); lvl=1; h,r-ind=1,1
    [3,3]((7,21,24),(3,8,9),(3,9,10)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,13,15),(7,21,24),(3,9,10)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,6,7),(3,7,8),(7,21,24),(3,8,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,14,16),(3,8,9),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(5,14,16),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((7,21,24),(5,14,16),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(7,21,24),(5,14,16)); lvl=3; h,r-ind=1,1
    [3,3]((4,13,15),(2,6,7),(7,21,24)); lvl=2; h,r-ind=1,1
  [3,3]((3,11,13),(2,6,7),(4,13,15)); lvl=1; h,r-ind=1,1
  [4,3]((3,11,13),(3,11,12),(3,9,10),(4,13,15)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,8),(3,10,11),(3,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,13,15),(2,7,8),(3,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,13),(4,13,15),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,12),(2,7,8),(3,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,13),(3,11,12),(2,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,8),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,6,7),(3,7,8),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,11,13),(2,6,7),(1,0,0)); lvl=1; h,r-ind=1,1
```

13.28 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,12,13)); lvl=0; h,r-ind=13,169
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,12,13),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,12,13),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,4,4),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,12,13),(0,1,0),(1,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((3,12,13),(1,4,4),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
```

13.29 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,4,13)); lvl=0; h,r-ind=13,169
  [3,3]((0,1,0),(1,0,0),(1,1,2)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((1,1,3),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((4,4,13),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,3),(0,1,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((4,4,13),(1,1,3),(0,1,0)); lvl=1; h,r-ind=1,1
```

13.30 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,6,13)); lvl=0; h,r-ind=13,169
  [4,3]((0,1,0),(1,2,2),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,1),(2,2,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,6,13),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,5),(1,1,2),(1,2,2),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(1,1,2),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,5),(2,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,3),(2,3,5),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,5),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((4,6,11),(2,3,5),(1,1,2),(3,4,8)); lvl=1; h,r-ind=1,1
    [3,3]((5,7,13),(1,1,2),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,11),(5,7,13),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(4,6,11),(5,7,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(5,7,13),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((4,6,13),(1,1,2),(3,4,8)); lvl=1; h,r-ind=1,1
  [4,3]((4,6,13),(3,5,9),(4,6,11),(3,4,8)); lvl=1; h,r-ind=1,4
    [3,3]((2,3,6),(3,5,9),(4,6,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(2,3,6),(4,6,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,13),(3,4,8),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,13),(2,3,6),(3,5,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(3,5,9),(4,6,11),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,9),(4,6,11),(5,8,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(4,6,11),(5,8,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,9),(5,8,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(1,2,3),(5,8,14)); lvl=2; h,r-ind=1,1
  [3,3]((4,6,13),(1,2,3),(3,5,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,6,13),(1,2,3)); lvl=1; h,r-ind=1,1
```

13.31 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,8,13)); lvl=0; h,r-ind=13,169
  [3,3]((1,2,3),(1,0,0),(4,7,11)); lvl=1; h,r-ind=1,1
  [3,3]((4,8,13),(1,0,0),(4,7,11)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((4,8,13),(1,2,3),(4,7,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(1,0,0),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,3),(2,3,4),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((4,8,13),(0,1,0),(1,2,3)); lvl=1; h,r-ind=1,1
```

13.32 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,10,13)); lvl=0; h,r-ind=13,169
  [4,3]((2,5,6),(1,2,2),(5,11,13),(1,3,3)); lvl=1; h,r-ind=1,2
    [3,3]((5,11,13),(3,7,8),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(3,7,8),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(5,11,13),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,6),(3,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((4,10,13),(2,5,6),(1,3,3)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((4,10,13),(0,1,0),(1,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,1),(2,4,5),(1,2,2),(5,11,13)); lvl=1; h,r-ind=1,2
    [3,3]((2,4,5),(3,6,7),(5,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(3,6,7),(5,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(3,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,4,5),(3,6,7)); lvl=2; h,r-ind=1,1
  [4,3]((3,7,9),(2,5,6),(2,4,5),(5,11,13)); lvl=1; h,r-ind=1,2
    [3,3]((2,5,6),(4,9,11),(5,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(4,9,11),(5,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,9),(2,4,5),(4,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,9),(2,5,6),(4,9,11)); lvl=2; h,r-ind=1,1
  [3,3]((4,10,13),(3,7,9),(2,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(1,0,0),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,9),(1,0,0),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,10,13),(3,7,9),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
```

13.33 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,12,13)); lvl=0; h,r-ind=13,169
  [3,3]((1,2,2),(1,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,12,13),(1,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,12,13),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,12,13),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((4,12,13),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
```

13.34 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,5,13)); lvl=0; h,r-ind=13,169
  [3,3]((1,0,0),(1,1,2),(3,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(3,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,5),(1,0,0),(3,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,5),(3,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,13),(0,1,0),(2,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,13),(2,2,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
```

13.35 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,12,13)); lvl=0; h,r-ind=13,169
  [3,3]((0,1,0),(3,7,7),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((5,12,13),(3,7,7),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((5,12,13),(0,1,0),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(3,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((5,12,13),(1,2,2),(3,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((5,12,13),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((5,12,13),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,12,13),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
```

13.36 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,6,13)); lvl=0; h,r-ind=13,169
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((6,6,13),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(6,6,13),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
```

13.37 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,12,13)); lvl=0; h,r-ind=13,169
  [3,3]((6,12,13),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((6,12,13),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((6,12,13),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(6,12,13),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
```

13.38 Resolved

```
[3,3]((1,0,0),(0,1,0),(12,12,13)); lvl=0; h,r-ind=13,169
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((12,12,13),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((12,12,13),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

14 H-index = 14

14.0 Classification

```
[3,3]((1,0,0),(0,1,0),(0,1,14))
  [3,3]((1,0,0),(0,1,0),(0,1,14))
  [3,3]((1,0,0),(0,1,0),(1,0,14))
  [3,3]((1,0,0),(1,14,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,3,14))
  [3,3]((1,0,0),(0,1,0),(0,3,14))
  [3,3]((1,0,0),(0,1,0),(0,5,14))
  [3,3]((1,0,0),(0,1,0),(3,0,14))
  [3,3]((1,0,0),(0,1,0),(5,0,14))
  [3,3]((1,0,0),(3,14,0),(0,0,1))
  [3,3]((1,0,0),(5,14,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,9,14))
  [3,3]((1,0,0),(0,1,0),(0,9,14))
  [3,3]((1,0,0),(0,1,0),(0,11,14))
  [3,3]((1,0,0),(0,1,0),(9,0,14))
  [3,3]((1,0,0),(0,1,0),(11,0,14))
  [3,3]((1,0,0),(9,14,0),(0,0,1))
  [3,3]((1,0,0),(11,14,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,13,14))
  [3,3]((1,0,0),(0,1,0),(0,13,14))
  [3,3]((1,0,0),(0,1,0),(13,0,14))
  [3,3]((1,0,0),(13,14,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(1,1,14))
  [3,3]((1,0,0),(0,1,0),(1,1,14))
  [3,3]((1,0,0),(0,1,0),(1,13,14))
  [3,3]((1,0,0),(0,1,0),(13,1,14))
[3,3]((1,0,0),(0,1,0),(1,2,14))
  [3,3]((1,0,0),(0,1,0),(1,2,14))
  [3,3]((1,0,0),(0,1,0),(1,12,14))
  [3,3]((1,0,0),(0,1,0),(2,1,14))
  [3,3]((1,0,0),(0,1,0),(12,1,14))
  [3,3]((1,0,0),(1,2,0),(0,1,7))
  [3,3]((1,0,0),(1,2,0),(0,6,7))
[3,3]((1,0,0),(0,1,0),(1,3,14))
  [3,3]((1,0,0),(0,1,0),(1,3,14))
  [3,3]((1,0,0),(0,1,0),(1,11,14))
  [3,3]((1,0,0),(0,1,0),(3,1,14))
  [3,3]((1,0,0),(0,1,0),(5,9,14))
  [3,3]((1,0,0),(0,1,0),(9,5,14))
  [3,3]((1,0,0),(0,1,0),(11,1,14))
[3,3]((1,0,0),(0,1,0),(1,4,14))
  [3,3]((1,0,0),(0,1,0),(1,4,14))
  [3,3]((1,0,0),(0,1,0),(1,10,14))
  [3,3]((1,0,0),(0,1,0),(4,1,14))
  [3,3]((1,0,0),(0,1,0),(10,1,14))
  [3,3]((1,0,0),(1,2,0),(0,3,7))
  [3,3]((1,0,0),(1,2,0),(0,4,7))
[3,3]((1,0,0),(0,1,0),(1,5,14))
  [3,3]((1,0,0),(0,1,0),(1,5,14))
```

```
  [3,3]((1,0,0),(0,1,0),(1,9,14))
  [3,3]((1,0,0),(0,1,0),(3,11,14))
  [3,3]((1,0,0),(0,1,0),(5,1,14))
  [3,3]((1,0,0),(0,1,0),(9,1,14))
  [3,3]((1,0,0),(0,1,0),(11,3,14))
[3,3]((1,0,0),(0,1,0),(1,6,14))
  [3,3]((1,0,0),(0,1,0),(1,6,14))
  [3,3]((1,0,0),(0,1,0),(1,8,14))
  [3,3]((1,0,0),(0,1,0),(6,1,14))
  [3,3]((1,0,0),(0,1,0),(8,1,14))
  [3,3]((1,0,0),(1,2,0),(0,2,7))
  [3,3]((1,0,0),(1,2,0),(0,5,7))
[3,3]((1,0,0),(0,1,0),(1,7,14))
  [3,3]((1,0,0),(0,1,0),(1,7,14))
  [3,3]((1,0,0),(0,1,0),(7,1,14))
  [3,3]((1,0,0),(1,7,0),(0,1,2))
[3,3]((1,0,0),(0,1,0),(2,3,14))
  [3,3]((1,0,0),(0,1,0),(2,3,14))
  [3,3]((1,0,0),(0,1,0),(3,2,14))
  [3,3]((1,0,0),(0,1,0),(4,5,14))
  [3,3]((1,0,0),(0,1,0),(5,4,14))
  [3,3]((1,0,0),(1,2,0),(6,1,7))
  [3,3]((1,0,0),(1,2,0),(6,4,7))
[3,3]((1,0,0),(0,1,0),(2,5,14))
  [3,3]((1,0,0),(0,1,0),(2,5,14))
  [3,3]((1,0,0),(0,1,0),(3,8,14))
  [3,3]((1,0,0),(0,1,0),(5,2,14))
  [3,3]((1,0,0),(0,1,0),(8,3,14))
  [3,3]((1,0,0),(1,2,0),(5,1,7))
  [3,3]((1,0,0),(1,2,0),(5,2,7))
[3,3]((1,0,0),(0,1,0),(2,7,14))
  [3,3]((1,0,0),(0,1,0),(2,7,14))
  [3,3]((1,0,0),(0,1,0),(7,2,14))
  [3,3]((1,0,0),(1,2,0),(4,0,7))
  [3,3]((1,0,0),(1,2,0),(4,1,7))
  [3,3]((1,0,0),(2,7,0),(0,1,2))
  [3,3]((1,0,0),(4,7,0),(1,0,2))
[3,3]((1,0,0),(0,1,0),(2,9,14))
  [3,3]((1,0,0),(0,1,0),(2,9,14))
  [3,3]((1,0,0),(0,1,0),(6,11,14))
  [3,3]((1,0,0),(0,1,0),(9,2,14))
  [3,3]((1,0,0),(0,1,0),(11,6,14))
  [3,3]((1,0,0),(1,2,0),(3,1,7))
  [3,3]((1,0,0),(1,2,0),(3,5,7))
[3,3]((1,0,0),(0,1,0),(2,11,14))
  [3,3]((1,0,0),(0,1,0),(2,11,14))
  [3,3]((1,0,0),(0,1,0),(9,10,14))
  [3,3]((1,0,0),(0,1,0),(10,9,14))
  [3,3]((1,0,0),(0,1,0),(11,2,14))
  [3,3]((1,0,0),(1,2,0),(2,1,7))
  [3,3]((1,0,0),(1,2,0),(2,3,7))
[3,3]((1,0,0),(0,1,0),(2,13,14))
  [3,3]((1,0,0),(0,1,0),(2,13,14))
  [3,3]((1,0,0),(0,1,0),(13,2,14))
  [3,3]((1,0,0),(1,2,0),(1,1,7))
[3,3]((1,0,0),(0,1,0),(3,3,14))
  [3,3]((1,0,0),(0,1,0),(3,3,14))
  [3,3]((1,0,0),(0,1,0),(5,13,14))
  [3,3]((1,0,0),(0,1,0),(13,5,14))
[3,3]((1,0,0),(0,1,0),(3,4,14))
  [3,3]((1,0,0),(0,1,0),(3,4,14))
  [3,3]((1,0,0),(0,1,0),(4,3,14))
  [3,3]((1,0,0),(0,1,0),(5,8,14))
  [3,3]((1,0,0),(0,1,0),(8,5,14))
  [3,3]((1,0,0),(1,2,0),(3,2,7))
  [3,3]((1,0,0),(1,2,0),(3,4,7))
[3,3]((1,0,0),(0,1,0),(3,5,14))
  [3,3]((1,0,0),(0,1,0),(3,5,14))
  [3,3]((1,0,0),(0,1,0),(5,3,14))
[3,3]((1,0,0),(0,1,0),(3,6,14))
  [3,3]((1,0,0),(0,1,0),(3,6,14))
  [3,3]((1,0,0),(0,1,0),(5,12,14))
  [3,3]((1,0,0),(0,1,0),(6,3,14))
  [3,3]((1,0,0),(0,1,0),(12,5,14))
  [3,3]((1,0,0),(1,2,0),(2,5,7))
  [3,3]((1,0,0),(1,2,0),(2,6,7))
[3,3]((1,0,0),(0,1,0),(3,7,14))
  [3,3]((1,0,0),(0,1,0),(3,7,14))
  [3,3]((1,0,0),(0,1,0),(5,7,14))
  [3,3]((1,0,0),(0,1,0),(7,3,14))
```

```
  [3,3]((1,0,0),(0,1,0),(7,5,14))
  [3,3]((1,0,0),(3,7,0),(0,1,2))
  [3,3]((1,0,0),(5,7,0),(0,1,2))
[3,3]((1,0,0),(0,1,0),(3,9,14))
  [3,3]((1,0,0),(0,1,0),(3,9,14))
  [3,3]((1,0,0),(0,1,0),(5,11,14))
  [3,3]((1,0,0),(0,1,0),(9,3,14))
  [3,3]((1,0,0),(0,1,0),(9,11,14))
  [3,3]((1,0,0),(0,1,0),(11,5,14))
  [3,3]((1,0,0),(0,1,0),(11,9,14))
[3,3]((1,0,0),(0,1,0),(3,10,14))
  [3,3]((1,0,0),(0,1,0),(3,10,14))
  [3,3]((1,0,0),(0,1,0),(5,6,14))
  [3,3]((1,0,0),(0,1,0),(6,5,14))
  [3,3]((1,0,0),(0,1,0),(10,3,14))
  [3,3]((1,0,0),(1,2,0),(4,3,7))
  [3,3]((1,0,0),(1,2,0),(4,5,7))
[3,3]((1,0,0),(0,1,0),(3,12,14))
  [3,3]((1,0,0),(0,1,0),(3,12,14))
  [3,3]((1,0,0),(0,1,0),(5,10,14))
  [3,3]((1,0,0),(0,1,0),(10,5,14))
  [3,3]((1,0,0),(0,1,0),(12,3,14))
  [3,3]((1,0,0),(1,2,0),(1,3,7))
  [3,3]((1,0,0),(1,2,0),(1,6,7))
[3,3]((1,0,0),(0,1,0),(3,13,14))
  [3,3]((1,0,0),(0,1,0),(3,13,14))
  [3,3]((1,0,0),(0,1,0),(5,5,14))
  [3,3]((1,0,0),(0,1,0),(13,3,14))
[3,3]((1,0,0),(0,1,0),(4,7,14))
  [3,3]((1,0,0),(0,1,0),(4,7,14))
  [3,3]((1,0,0),(0,1,0),(7,4,14))
  [3,3]((1,0,0),(1,2,0),(2,0,7))
  [3,3]((1,0,0),(1,2,0),(2,4,7))
  [3,3]((1,0,0),(2,7,0),(1,0,2))
  [3,3]((1,0,0),(4,7,0),(0,1,2))
[3,3]((1,0,0),(0,1,0),(4,9,14))
  [3,3]((1,0,0),(0,1,0),(4,9,14))
  [3,3]((1,0,0),(0,1,0),(9,4,14))
  [3,3]((1,0,0),(0,1,0),(11,12,14))
  [3,3]((1,0,0),(0,1,0),(12,11,14))
  [3,3]((1,0,0),(1,2,0),(5,4,7))
  [3,3]((1,0,0),(1,2,0),(5,6,7))
[3,3]((1,0,0),(0,1,0),(4,11,14))
  [3,3]((1,0,0),(0,1,0),(4,11,14))
  [3,3]((1,0,0),(0,1,0),(6,9,14))
  [3,3]((1,0,0),(0,1,0),(9,6,14))
  [3,3]((1,0,0),(0,1,0),(11,4,14))
  [3,3]((1,0,0),(1,2,0),(1,4,7))
  [3,3]((1,0,0),(1,2,0),(1,5,7))
[3,3]((1,0,0),(0,1,0),(4,13,14))
  [3,3]((1,0,0),(0,1,0),(4,13,14))
  [3,3]((1,0,0),(0,1,0),(13,4,14))
  [3,3]((1,0,0),(1,2,0),(4,4,7))
[3,3]((1,0,0),(0,1,0),(6,7,14))
  [3,3]((1,0,0),(0,1,0),(6,7,14))
  [3,3]((1,0,0),(0,1,0),(7,6,14))
  [3,3]((1,0,0),(1,2,0),(6,0,7))
  [3,3]((1,0,0),(1,2,0),(6,5,7))
  [3,3]((1,0,0),(6,7,0),(0,1,2))
  [3,3]((1,0,0),(6,7,0),(1,0,2))
[3,3]((1,0,0),(0,1,0),(6,13,14))
  [3,3]((1,0,0),(0,1,0),(6,13,14))
  [3,3]((1,0,0),(0,1,0),(13,6,14))
  [3,3]((1,0,0),(1,2,0),(5,5,7))
[3,3]((1,0,0),(0,1,0),(7,8,14))
  [3,3]((1,0,0),(0,1,0),(7,8,14))
  [3,3]((1,0,0),(0,1,0),(8,7,14))
  [3,3]((1,0,0),(1,2,0),(1,0,7))
  [3,3]((1,0,0),(1,2,0),(1,2,7))
  [3,3]((1,0,0),(1,7,0),(1,0,2))
  [3,3]((1,0,0),(1,7,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(7,9,14))
  [3,3]((1,0,0),(0,1,0),(7,9,14))
  [3,3]((1,0,0),(0,1,0),(7,11,14))
  [3,3]((1,0,0),(0,1,0),(9,7,14))
  [3,3]((1,0,0),(0,1,0),(11,7,14))
  [3,3]((1,0,0),(2,7,0),(1,1,2))
  [3,3]((1,0,0),(4,7,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(7,10,14))
  [3,3]((1,0,0),(0,1,0),(7,10,14))
```

```
  [3,3]((1,0,0),(0,1,0),(10,7,14))
  [3,3]((1,0,0),(1,2,0),(5,0,7))
  [3,3]((1,0,0),(1,2,0),(5,3,7))
  [3,3]((1,0,0),(3,7,0),(1,1,2))
  [3,3]((1,0,0),(5,7,0),(1,0,2))
[3,3]((1,0,0),(0,1,0),(7,12,14))
  [3,3]((1,0,0),(0,1,0),(7,12,14))
  [3,3]((1,0,0),(0,1,0),(12,7,14))
  [3,3]((1,0,0),(1,2,0),(3,0,7))
  [3,3]((1,0,0),(1,2,0),(3,6,7))
  [3,3]((1,0,0),(3,7,0),(1,0,2))
  [3,3]((1,0,0),(5,7,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(7,13,14))
  [3,3]((1,0,0),(0,1,0),(7,13,14))
  [3,3]((1,0,0),(0,1,0),(13,7,14))
  [3,3]((1,0,0),(6,7,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(8,9,14))
  [3,3]((1,0,0),(0,1,0),(8,9,14))
  [3,3]((1,0,0),(0,1,0),(9,8,14))
  [3,3]((1,0,0),(0,1,0),(10,11,14))
  [3,3]((1,0,0),(0,1,0),(11,10,14))
  [3,3]((1,0,0),(1,2,0),(6,2,7))
  [3,3]((1,0,0),(1,2,0),(6,3,7))
[3,3]((1,0,0),(0,1,0),(8,11,14))
  [3,3]((1,0,0),(0,1,0),(8,11,14))
  [3,3]((1,0,0),(0,1,0),(9,12,14))
  [3,3]((1,0,0),(0,1,0),(11,8,14))
  [3,3]((1,0,0),(0,1,0),(12,9,14))
  [3,3]((1,0,0),(1,2,0),(4,2,7))
  [3,3]((1,0,0),(1,2,0),(4,6,7))
[3,3]((1,0,0),(0,1,0),(8,13,14))
  [3,3]((1,0,0),(0,1,0),(8,13,14))
  [3,3]((1,0,0),(0,1,0),(13,8,14))
  [3,3]((1,0,0),(1,2,0),(2,2,7))
[3,3]((1,0,0),(0,1,0),(9,9,14))
  [3,3]((1,0,0),(0,1,0),(9,9,14))
  [3,3]((1,0,0),(0,1,0),(11,13,14))
  [3,3]((1,0,0),(0,1,0),(13,11,14))
[3,3]((1,0,0),(0,1,0),(9,13,14))
  [3,3]((1,0,0),(0,1,0),(9,13,14))
  [3,3]((1,0,0),(0,1,0),(11,11,14))
  [3,3]((1,0,0),(0,1,0),(13,9,14))
[3,3]((1,0,0),(0,1,0),(10,13,14))
  [3,3]((1,0,0),(0,1,0),(10,13,14))
  [3,3]((1,0,0),(0,1,0),(13,10,14))
  [3,3]((1,0,0),(1,2,0),(3,3,7))
[3,3]((1,0,0),(0,1,0),(12,13,14))
  [3,3]((1,0,0),(0,1,0),(12,13,14))
  [3,3]((1,0,0),(0,1,0),(13,12,14))
  [3,3]((1,0,0),(1,2,0),(6,6,7))
[3,3]((1,0,0),(0,1,0),(13,13,14))
  [3,3]((1,0,0),(0,1,0),(13,13,14))
```

14.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,14)); lvl=0; h,r-ind=14,14
  [3,3]((1,0,0),(0,1,7),(0,1,0)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,0,0),(0,1,14),(0,1,7)); lvl=1; h,r-ind=7,7; optimized-h
```

14.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,3,14)); lvl=0; h,r-ind=14,14
  [3,3]((1,0,0),(0,3,13),(0,2,5)); lvl=1; h,r-ind=11,11; optimized-h
  [3,3]((1,0,0),(0,1,0),(0,2,5)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,3,14),(0,3,13)); lvl=1; h,r-ind=3,3; optimized-h
```

14.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,9,14)); lvl=0; h,r-ind=14,14
  [3,3]((1,0,0),(0,3,4),(0,1,1)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,2,3),(0,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,9,14),(0,2,3)); lvl=1; h,r-ind=1,1
```

14.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,13,14)); lvl=0; h,r-ind=14,14
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,1),(0,13,14)); lvl=1; h,r-ind=1,1
```

14.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,14)); lvl=0; h,r-ind=14,196
  [3,3]((1,0,0),(1,1,7),(1,1,13)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((0,1,0),(1,1,7),(1,1,13)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((1,1,14),(0,1,0),(1,1,13)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,14),(1,0,0),(1,1,13)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,7)); lvl=1; h,r-ind=7,49; optimized-h
```

14.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,14)); lvl=0; h,r-ind=14,98
  [4,3]((1,0,0),(1,2,12),(1,1,7),(1,2,7)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,6),(1,1,7),(1,2,12)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,19),(1,1,6),(1,1,5),(1,2,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,27),(1,1,5),(1,1,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,12),(2,4,21),(4,5,27),(1,1,6)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((5,7,39),(1,1,6),(2,3,16),(4,5,27)); lvl=4; h,r-ind=1,3
          [3,3]((3,4,22),(1,1,6),(4,5,27)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,22),(2,3,16),(4,5,27)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,39),(3,4,22),(2,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,39),(3,4,22),(1,1,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,11),(5,7,39),(2,3,16)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,2,11),(2,4,21),(2,3,16)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,11),(1,2,12),(5,7,39),(1,1,6)); lvl=4; h,r-ind=1,3
          [3,3]((2,3,17),(1,2,12),(1,1,6)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,39),(2,3,17),(1,1,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,11),(5,7,39),(2,3,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,11),(2,3,17),(1,2,12)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,10),(2,4,21),(4,5,27),(1,1,5)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,5),(2,3,16),(4,5,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,31),(1,1,5),(2,3,16)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,10),(4,6,31),(2,4,21),(2,3,16)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,16),(3,5,26),(4,6,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,10),(3,5,26),(4,6,31)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,21),(1,2,10),(3,5,26)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,21),(2,3,16),(3,5,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,10),(4,6,31),(1,1,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,19),(1,2,10),(1,1,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,4),(1,2,7),(2,4,19),(1,1,5)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,5),(4,5,22),(2,4,17),(1,2,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,5),(2,3,13),(4,5,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(4,6,27),(2,3,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,9),(4,6,27),(2,4,17),(2,3,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,6,27),(3,5,22),(2,3,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,17),(3,5,22),(2,3,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,9),(2,4,17),(3,5,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,9),(4,6,27),(3,5,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,9),(1,1,5),(4,6,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,5),(2,4,19),(1,2,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,4),(1,2,7),(4,5,22),(2,4,17)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,3,13),(1,2,8),(2,4,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,13),(1,2,8),(5,7,29)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,1,4),(1,2,8),(1,2,7),(5,7,29)); lvl=4; h,r-ind=1,3
          [3,3]((1,2,8),(1,2,7),(2,3,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(1,2,7),(2,3,12)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,29),(1,2,8),(2,3,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(5,7,29),(2,3,12)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,4),(4,5,22),(2,3,13),(5,7,29)); lvl=4; h,r-ind=1,3
          [3,3]((3,4,17),(4,5,22),(2,3,13)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((5,7,29),(3,4,17),(2,3,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(5,7,29),(3,4,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(3,4,17),(4,5,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,5),(1,1,4),(4,5,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,4),(1,1,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,4),(1,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,6),(1,1,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,6),(1,1,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,2,7)); lvl=1; h,r-ind=7,49; optimized-h
  [3,3]((0,1,0),(1,2,12),(1,2,7)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,2,14),(0,1,0),(1,2,12)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,14),(1,2,12),(1,1,7)); lvl=1; h,r-ind=2,2; optimized-h
```

14.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,14)); lvl=0; h,r-ind=14,196
  [4,3]((1,0,0),(1,2,8),(2,3,13),(1,2,5)); lvl=1; h,r-ind=1,2
    [4,3]((1,1,4),(2,2,7),(2,4,13),(1,2,8)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,7),(5,7,25),(2,3,10),(3,4,14)); lvl=3; h,r-ind=1,1
        [3,3]((4,6,21),(5,7,25),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(4,6,21),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(2,3,10),(4,6,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(4,6,21),(5,7,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,7),(2,3,10),(3,4,14)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,4),(5,7,25),(2,2,7),(3,4,14)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,18),(5,7,25),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,7),(4,5,18),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(2,2,7),(4,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(4,5,18),(5,7,25)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,4),(1,2,8),(1,2,7),(5,7,25)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,3,11),(1,2,7),(1,2,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(2,3,11),(1,2,8)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,25),(2,3,11),(1,2,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(5,7,25),(2,3,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(2,4,13),(2,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,13),(1,1,4),(1,2,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,13),(1,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,4),(2,2,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(1,1,3),(2,2,7),(2,4,13)); lvl=2; h,r-ind=1,1
      [4,3]((5,7,22),(3,4,13),(2,2,7),(1,1,3)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,13),(2,2,7),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(2,2,7),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,22),(3,4,13),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(5,7,22),(4,5,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,5),(1,2,6),(5,7,22),(1,1,3)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((1,2,6),(5,7,22),(2,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(5,7,22),(2,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(1,2,6),(2,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(1,2,5),(2,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(3,4,13),(2,2,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,6),(5,7,22),(2,3,10),(3,4,13)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,22),(4,6,19),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(4,6,19),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,3,10),(4,6,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(5,7,22),(4,6,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,4,13),(2,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,5),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(2,2,7)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,3,7),(1,0,0),(1,2,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,2),(1,2,4),(1,2,5),(3,7,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,4),(3,7,16),(2,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(3,7,16),(2,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(2,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,1,2),(2,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(1,2,5),(3,7,16)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(1,3,7),(1,2,4),(3,7,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,11),(1,3,7),(3,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,11),(3,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,11),(2,5,10)); lvl=3; h,r-ind=1,1
      [4,3]((2,6,11),(2,5,11),(2,5,10),(1,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((5,13,27),(2,5,11),(2,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(5,13,27),(2,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,11),(1,3,6),(2,5,10)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,6),(5,13,27),(1,3,7),(2,5,11)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,13,27),(3,8,17),(2,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(3,8,17),(2,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,6),(1,3,7),(3,8,17)); lvl=5; h,r-ind=1,1
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        [3,3]((1,3,6),(5,13,27),(3,8,17)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,4),(1,3,4),(2,6,11),(2,5,10)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,10),(2,6,11),(1,3,5),(4,10,19)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,11),(3,8,15),(1,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,19),(3,8,15),(1,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,10),(2,6,11),(3,8,15)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,19),(2,5,10),(3,8,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(4,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,4),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,10),(4,10,19)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,4),(2,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,4),(1,3,7)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(1,1,2),(1,2,5)); lvl=2; h,r-ind=1,1
  [5,3]((2,2,3),(1,3,4),(2,6,7),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,6,7),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,2),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,5),(2,6,7)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,3),(1,2,3),(2,4,5)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,3),(1,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,2,3),(2,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(1,2,2),(1,1,1),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(4,6,7)); lvl=4; h,r-ind=1,1
      [4,3]((2,2,3),(2,3,4),(1,1,1),(4,6,7)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(2,3,4),(4,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,5),(1,1,1),(4,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=5; h,r-ind=1,1
      [4,3]((2,4,5),(2,3,4),(1,2,2),(4,6,7)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,6),(2,3,4),(4,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(3,5,6),(4,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=5; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,7),(2,4,5),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [4,3]((2,4,5),(2,5,6),(1,2,2),(4,10,11)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,8),(2,5,6),(4,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,8),(1,2,2),(4,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,8),(1,2,2)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,8),(2,5,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(4,10,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,3),(2,6,7),(2,5,6),(4,10,11)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,7),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,11),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(4,10,11),(3,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,6,7),(1,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=3; h,r-ind=1,1
[3,3]((1,2,9),(1,0,0),(2,3,13)); lvl=1; h,r-ind=1,1
[3,3]((1,3,14),(1,2,9),(1,0,0)); lvl=1; h,r-ind=1,1
[5,3]((1,3,11),(1,3,7),(2,5,20),(1,2,8),(1,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,19),(2,5,16),(2,4,13),(1,2,8)); lvl=2; h,r-ind=3,1; alert-h-inc
    [3,3]((1,2,7),(2,5,16),(2,4,13)); lvl=3; h,r-ind=1,1
    [3,3]((4,10,35),(1,2,7),(2,5,16)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((2,5,19),(4,10,35),(1,2,8),(1,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,33),(1,2,7),(1,2,8)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,19),(2,5,18),(4,9,33),(1,2,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,18),(4,9,33),(3,7,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,8),(4,9,33),(3,7,26)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,19),(2,5,18),(3,7,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,8),(2,5,19),(3,7,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,18),(4,9,33),(1,2,7)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,35),(2,5,18),(1,2,7)); lvl=4; h,r-ind=1,1
  [3,3]((2,5,19),(2,5,20),(1,2,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,11),(2,5,19),(2,5,20)); lvl=2; h,r-ind=1,1
  [5,3]((1,3,7),(1,3,9),(2,5,16),(1,2,5),(2,4,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,6),(4,10,31),(2,4,13),(2,5,16)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,10,31),(3,7,22),(2,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,13),(3,7,22),(2,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,4,13),(3,7,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(4,10,31),(3,7,22)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,9),(4,10,31),(2,5,16)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,8),(1,3,9),(1,2,6),(4,10,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,15),(1,3,9),(4,10,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,5,15),(4,10,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(2,5,15),(1,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(1,3,8),(2,5,15)); lvl=4; h,r-ind=1,1
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      [4,3]((1,3,8),(1,3,7),(1,2,5),(1,2,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,7),(1,2,5),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(1,2,5),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(1,3,7),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(1,3,8),(2,5,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,11),(2,5,19),(1,3,9),(2,5,16)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,10),(1,3,9),(4,10,35),(2,5,16)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,9),(2,5,17),(4,11,36),(2,5,16)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,11,36),(3,8,26),(2,5,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,16),(3,8,26),(2,5,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,9),(4,11,36),(3,8,26)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,16),(1,3,9),(3,8,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(2,5,17),(4,11,36)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(1,3,10),(4,11,36)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,10),(4,10,35),(2,5,17)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,11),(1,3,10),(2,5,19),(4,10,35)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,10),(2,5,18),(4,10,35)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,39),(1,3,10),(2,5,18)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,11),(4,11,39),(2,5,19),(2,5,18)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,19),(3,8,29),(2,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,39),(3,8,29),(2,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,11),(4,11,39),(3,8,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,11),(2,5,19),(3,8,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,11),(4,11,39),(1,3,10)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,14),(2,5,22),(1,3,11),(2,5,20)); lvl=1; h,r-ind=1,1
    [4,3]((2,6,25),(1,3,11),(2,5,21),(2,5,20)); lvl=2; h,r-ind=1,1
      [3,3]((5,13,53),(2,5,21),(2,5,20)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,11),(5,13,53),(1,3,12),(2,5,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,13,53),(1,3,12),(3,8,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,11),(1,3,12),(3,8,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,20),(1,3,11),(3,8,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,20),(5,13,53),(3,8,32)); lvl=4; h,r-ind=1,1
      [3,3]((5,13,53),(1,3,12),(2,5,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,25),(1,3,12),(2,5,21)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,14),(2,6,25),(2,5,21),(2,5,22)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,13),(2,5,21),(5,13,56)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,22),(2,5,21),(5,13,56)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,22),(1,3,14),(1,3,13),(5,13,56)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,35),(1,3,14),(1,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,56),(3,8,35),(1,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,22),(5,13,56),(3,8,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,22),(3,8,35),(1,3,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,13),(2,6,25),(2,5,21)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,3,11),(1,3,7)); lvl=1; h,r-ind=4,4; optimized-h
[3,3]((1,3,14),(0,1,0),(1,3,11)); lvl=1; h,r-ind=3,3; optimized-h
[5,3]((1,2,9),(2,5,22),(2,5,20),(1,2,8),(2,3,13)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,9),(6,13,55),(5,11,47),(2,4,17)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,47),(6,13,55),(7,15,64)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,17),(6,13,55),(7,15,64)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,9),(2,4,17),(7,15,64)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,9),(5,11,47),(7,15,64)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,9),(2,3,13),(2,4,17)); lvl=2; h,r-ind=1,1
  [4,3]((5,11,46),(1,2,8),(6,13,55),(2,4,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,17),(1,2,8),(7,15,63)); lvl=3; h,r-ind=1,1
    [3,3]((5,11,46),(1,2,8),(7,15,63)); lvl=3; h,r-ind=1,1
    [3,3]((6,13,55),(5,11,46),(7,15,63)); lvl=3; h,r-ind=1,1
    [3,3]((6,13,55),(2,4,17),(7,15,63)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,13),(1,2,8),(2,4,17)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,20),(3,7,29),(5,11,46),(1,2,8)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,37),(3,7,29),(5,11,46)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,8),(4,9,37),(5,11,46)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,20),(4,9,37),(3,7,29)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,8),(2,5,20),(4,9,37)); lvl=3; h,r-ind=1,1
  [6,3]((3,7,29),(5,11,46),(2,5,21),(3,7,30),(6,13,55),(5,11,47)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,38),(6,13,55),(5,11,46)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,29),(4,9,38),(5,11,46)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,29),(4,9,38),(2,5,21)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,38),(6,13,55),(5,11,47)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,38),(5,11,47),(3,7,30)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,38),(2,5,21),(3,7,30)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,9),(2,5,22),(3,7,30),(5,11,47)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,39),(2,5,22),(3,7,30)); lvl=3; h,r-ind=1,1
    [3,3]((5,11,47),(4,9,39),(3,7,30)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,9),(5,11,47),(4,9,39)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,9),(4,9,39),(2,5,22)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,20),(3,7,29),(2,5,21)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,22),(2,5,21),(3,7,30)); lvl=2; h,r-ind=1,1
[3,3]((1,3,14),(1,2,9),(2,5,22)); lvl=1; h,r-ind=1,1
```

14.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,4,14)); lvl=0; h,r-ind=14,98
  [3,3]((1,2,6),(1,2,4),(1,0,0)); lvl=1; h,r-ind=4,2; optimized-h
  [4,3]((0,1,0),(1,4,7),(1,2,4),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(1,3,5),(1,2,4),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,4),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,5),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(2,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(1,0,0),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
      [4,3]((1,0,0),(2,3,3),(1,1,2),(4,6,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,1,2),(5,6,9),(2,3,4),(4,6,9)); lvl=4; h,r-ind=1,3
          [3,3]((2,3,4),(3,4,6),(5,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(3,4,6),(5,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,9),(1,1,2),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,9),(2,3,4),(3,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(5,6,9),(2,3,4)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,1,1),(2,3,3),(2,3,4)); lvl=4; h,r-ind=1,1
        [4,3]((1,0,0),(1,1,2),(1,1,1),(5,6,9)); lvl=4; h,r-ind=1,3
          [3,3]((1,1,2),(2,2,3),(5,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(5,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,2),(4,6,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(1,2,3),(2,3,3),(4,6,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,2,3),(5,9,12),(2,3,4),(4,6,9)); lvl=4; h,r-ind=1,3
          [3,3]((5,9,12),(3,5,7),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,9),(3,5,7),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(5,9,12),(3,5,7)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,9),(1,2,3),(3,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(5,9,12),(2,3,4)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,2,2),(2,3,3),(2,3,4)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,3),(1,3,3),(1,2,2),(5,9,12)); lvl=4; h,r-ind=1,3
          [3,3]((2,4,5),(1,3,3),(1,2,2)); lvl=5; h,r-ind=1,1
          [3,3]((5,9,12),(2,4,5),(1,2,2)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(5,9,12),(2,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(2,4,5),(1,3,3)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,0,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,4,7),(1,3,5),(1,2,4)); lvl=2; h,r-ind=1,1
    [5,3]((2,7,7),(1,3,3),(1,2,3),(1,3,5),(2,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,7),(1,3,4),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,7),(2,7,9),(1,3,4)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,7,11),(2,7,9),(1,3,4)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,3),(1,3,4),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(1,3,4),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,7),(1,3,5),(2,7,11)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(2,7,7),(1,4,7),(2,7,11)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,6),(2,7,9),(1,4,5),(2,7,11)); lvl=3; h,r-ind=1,1
        [4,3]((1,4,5),(4,15,21),(2,7,9),(2,7,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,11,15),(2,7,10),(2,7,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(3,11,15),(2,7,9)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,15),(4,15,21),(2,7,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(3,11,15),(4,15,21)); lvl=5; h,r-ind=1,1
        [4,3]((2,7,11),(1,4,6),(4,15,21),(2,7,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,4,6),(4,15,21),(3,11,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,10),(4,15,21),(3,11,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,11),(1,4,6),(3,11,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,10),(2,7,11),(3,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(1,4,5),(4,15,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(1,4,6),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,6),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(0,1,0),(1,4,6)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,7),(1,4,4),(2,7,9),(1,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,4),(1,4,5),(4,15,17)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,8),(2,7,9),(1,4,5),(4,15,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,11,13),(2,7,9),(1,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,17),(3,11,13),(1,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(4,15,17),(3,11,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(3,11,13),(2,7,9)); lvl=5; h,r-ind=1,1
        [4,3]((2,7,7),(2,7,8),(1,4,4),(4,15,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,11,12),(4,15,17),(2,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,7),(3,11,12),(2,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(2,7,7),(3,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(3,11,12),(4,15,17)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,7,7),(1,4,4)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,7),(1,2,6),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
```

```
  [5,3]((1,4,10),(1,4,7),(1,2,6),(1,3,9),(1,2,4)); lvl=1; h,r-ind=1,2
    [4,3]((1,3,8),(1,2,5),(1,3,7),(1,2,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,7),(1,2,5),(2,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(1,2,5),(2,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(1,3,7),(2,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(1,3,8),(2,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(1,3,9),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,10),(1,3,8),(1,3,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,10),(2,8,17),(1,3,8),(1,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,8),(3,10,24)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,10),(1,4,9),(1,3,8),(3,10,24)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,9),(3,10,24),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(3,10,24),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(1,4,9),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(1,4,10),(2,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(1,3,7),(3,10,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(2,8,17),(1,3,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(1,3,6),(1,2,5),(1,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,6),(1,3,7),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,3,7),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,6),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(2,5,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,7),(2,8,17),(1,3,6),(1,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,6),(1,3,7),(3,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(1,3,7),(3,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,17),(1,4,8),(1,3,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,7),(1,4,8),(1,3,6),(3,10,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,8),(3,10,21),(2,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(3,10,21),(2,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(1,4,8),(2,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,4,7),(2,7,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(1,2,4),(1,3,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,14),(1,4,10),(1,3,9)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((0,1,0),(1,4,10),(1,4,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,4,14),(0,1,0),(1,4,10)); lvl=1; h,r-ind=4,4; optimized-h
  [4,3]((1,4,14),(1,2,7),(1,2,6),(1,3,9)); lvl=1; h,r-ind=1,2
    [3,3]((1,3,10),(1,2,7),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,9),(1,3,10),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,14),(1,3,9),(1,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,14),(1,3,10),(1,2,7)); lvl=2; h,r-ind=1,1
```

14.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,5,14)); lvl=0; h,r-ind=14,196
  [5,3]((1,4,8),(2,9,18),(2,5,13),(1,4,11),(2,9,24)); lvl=1; h,r-ind=3,1
    [4,3]((2,8,19),(2,9,24),(1,4,10),(2,9,21)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,10),(4,18,45),(2,9,24),(5,21,51)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,9,23),(3,13,32),(7,30,75)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,4,10),(5,21,51),(3,13,32),(7,30,75)); lvl=4; h,r-ind=1,3
          [3,3]((4,17,42),(3,13,32),(5,21,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,10),(4,17,42),(5,21,51)); lvl=5; h,r-ind=1,1
          [3,3]((7,30,75),(4,17,42),(3,13,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,10),(7,30,75),(4,17,42)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,10),(2,9,24),(2,9,23),(7,30,75)); lvl=4; h,r-ind=1,3
          [3,3]((3,13,33),(2,9,24),(2,9,23)); lvl=5; h,r-ind=1,1
          [3,3]((7,30,75),(3,13,33),(2,9,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,10),(7,30,75),(3,13,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,10),(3,13,33),(2,9,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,23),(4,18,45),(3,13,32)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,19),(1,4,10),(5,21,51)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,21),(4,18,45),(5,21,51)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,8,19),(2,9,21),(5,21,51)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,9,18),(1,4,9),(2,8,19),(2,9,21)); lvl=2; h,r-ind=1,1
      [3,3]((5,21,48),(2,8,19),(1,4,9)); lvl=3; h,r-ind=1,1
      [4,3]((4,18,39),(2,9,18),(5,21,48),(1,4,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,9,19),(7,30,66),(1,4,9),(2,9,18)); lvl=4; h,r-ind=1,3
          [3,3]((3,13,28),(1,4,9),(7,30,66)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,19),(3,13,28),(7,30,66)); lvl=5; h,r-ind=1,1
          [3,3]((3,13,28),(2,9,18),(1,4,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,19),(3,13,28),(2,9,18)); lvl=5; h,r-ind=1,1
        [4,3]((3,13,29),(7,30,66),(5,21,48),(1,4,9)); lvl=4; h,r-ind=1,3
          [3,3]((7,30,66),(4,17,38),(1,4,9)); lvl=5; h,r-ind=1,1
          [3,3]((5,21,48),(4,17,38),(1,4,9)); lvl=5; h,r-ind=1,1
          [3,3]((3,13,29),(5,21,48),(4,17,38)); lvl=5; h,r-ind=1,1
          [3,3]((3,13,29),(7,30,66),(4,17,38)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,29),(2,9,19),(7,30,66)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,13,29),(4,18,39),(2,9,19)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,9,21),(4,18,39),(5,21,48)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,9,21),(5,21,48),(2,8,19)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,4,8),(2,9,18),(1,4,9)); lvl=2; h,r-ind=1,1
    [4,3]((3,11,27),(4,15,36),(2,8,19),(1,4,10)); lvl=2; h,r-ind=1,1
      [3,3]((4,15,36),(2,8,19),(5,19,46)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,10),(2,8,19),(5,19,46)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,27),(4,15,36),(5,19,46)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,10),(3,11,27),(5,19,46)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,9),(4,15,36),(3,11,26),(2,8,19)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,26),(4,15,36),(5,19,45)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,19),(4,15,36),(5,19,45)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(2,8,19),(5,19,45)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(3,11,26),(5,19,45)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,8),(1,3,7),(1,4,9),(3,11,26)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,16),(1,3,7),(3,11,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,16),(1,4,9),(3,11,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(2,7,16),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(2,7,16),(1,3,7)); lvl=3; h,r-ind=1,1
    [5,3]((1,3,7),(1,3,8),(3,11,27),(4,15,36),(3,11,26)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,17),(3,11,27),(4,15,36)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,17),(3,11,26),(4,15,36)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,7,17),(3,11,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(1,3,7),(2,7,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(2,7,17),(3,11,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(2,5,13),(1,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,11),(2,9,24),(1,4,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,8),(3,11,27),(1,4,11),(1,4,10)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,18),(1,4,11),(1,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,27),(2,7,18),(1,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(3,11,27),(2,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(2,7,18),(1,4,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,14),(1,4,11),(2,9,24)); lvl=1; h,r-ind=1,1
  [4,3]((1,5,14),(1,5,9),(2,9,18),(2,9,24)); lvl=1; h,r-ind=1,1
    [4,3]((2,10,23),(2,9,21),(1,5,9),(2,9,18)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,9),(2,10,21),(2,9,18),(4,18,39)); lvl=3; h,r-ind=3,1; alert-h-inc
        [3,3]((3,14,30),(4,18,39),(2,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(3,14,30),(2,9,19)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,9),(1,5,10),(2,9,18),(2,9,19)); lvl=4; h,r-ind=1,1
          [3,3]((2,9,18),(2,9,19),(3,14,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(2,9,19),(3,14,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(2,9,18),(3,14,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(1,5,9),(3,14,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(2,10,21),(3,14,30)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,11),(2,10,21),(2,9,21),(4,18,39)); lvl=3; h,r-ind=1,1
        [3,3]((3,14,30),(2,9,20),(4,18,39)); lvl=4; h,r-ind=1,1
        [4,3]((7,33,72),(3,14,30),(4,19,41),(2,9,20)); lvl=4; h,r-ind=1,1
          [3,3]((6,28,61),(4,19,41),(3,14,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,20),(6,28,61),(3,14,30)); lvl=5; h,r-ind=1,1
          [3,3]((7,33,72),(2,9,20),(6,28,61)); lvl=5; h,r-ind=1,1
          [3,3]((7,33,72),(6,28,61),(4,19,41)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,11),(7,33,72),(2,9,21),(2,9,20)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((3,14,31),(2,9,21),(2,9,20)); lvl=5; h,r-ind=1,1
          [3,3]((7,33,72),(3,14,31),(2,9,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(7,33,72),(3,14,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(3,14,31),(2,9,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,21),(3,14,30),(4,19,41)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,11),(7,33,72),(2,10,21),(4,19,41)); lvl=4; h,r-ind=1,1
          [3,3]((5,24,52),(7,33,72),(4,19,41)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,21),(5,24,52),(4,19,41)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(2,10,21),(5,24,52)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(5,24,52),(7,33,72)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,23),(1,5,11),(2,9,21)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,14),(2,10,23),(2,9,24),(2,9,21)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,12),(2,10,25),(2,9,21),(4,18,45)); lvl=3; h,r-ind=1,1
        [3,3]((2,9,22),(3,14,35),(4,18,45)); lvl=4; h,r-ind=1,1
        [4,3]((7,33,81),(4,19,47),(2,9,22),(3,14,35)); lvl=4; h,r-ind=1,1
          [3,3]((4,19,47),(3,14,35),(6,28,69)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,22),(3,14,35),(6,28,69)); lvl=5; h,r-ind=1,1
          [3,3]((7,33,81),(4,19,47),(6,28,69)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,22),(7,33,81),(6,28,69)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,25),(4,19,47),(3,14,35)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,12),(7,33,81),(2,10,25),(4,19,47)); lvl=4; h,r-ind=1,1
          [3,3]((5,24,59),(7,33,81),(4,19,47)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,25),(5,24,59),(4,19,47)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(2,10,25),(5,24,59)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(5,24,59),(7,33,81)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,12),(7,33,81),(2,9,21),(2,9,22)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,9,22),(3,14,34),(2,9,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(3,14,34),(2,9,21)); lvl=5; h,r-ind=1,1
          [3,3]((7,33,81),(2,9,22),(3,14,34)); lvl=5; h,r-ind=1,1
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          [3,3]((1,5,12),(7,33,81),(3,14,34)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,14),(2,10,25),(2,9,24),(4,18,45)); lvl=3; h,r-ind=3,1; alert-h-inc
        [3,3]((3,14,35),(2,9,23),(4,18,45)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,13),(3,14,35),(2,9,23)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,14),(1,5,13),(2,9,24),(2,9,23)); lvl=4; h,r-ind=1,1
          [3,3]((2,9,24),(2,9,23),(3,14,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,13),(2,9,23),(3,14,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(1,5,13),(3,14,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(2,9,24),(3,14,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,13),(2,10,25),(3,14,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,23),(1,5,12),(2,9,21)); lvl=3; h,r-ind=1,1
[3,3]((1,5,14),(0,1,0),(1,5,9)); lvl=1; h,r-ind=5,5; optimized-h
[4,3]((1,0,0),(1,4,8),(1,4,6),(2,5,13)); lvl=1; h,r-ind=2,4
  [4,3]((1,2,4),(1,4,7),(1,4,8),(1,3,7)); lvl=2; h,r-ind=1,2
    [3,3]((1,3,6),(1,4,7),(1,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(1,3,6),(1,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,7),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,6),(1,4,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,5),(1,2,4),(1,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,13),(1,2,5),(1,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,5),(2,3,7),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,7),(1,2,4)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,5),(2,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,13),(1,0,0),(1,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,4),(1,4,6),(1,4,7)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,2,4),(1,2,3),(1,4,6)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,4),(1,2,3)); lvl=2; h,r-ind=2,2; optimized-h
[5,3]((1,5,9),(1,5,7),(1,4,8),(1,4,6),(2,9,18)); lvl=1; h,r-ind=1,1
  [4,3]((2,9,17),(4,18,31),(1,4,7),(1,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,7),(2,9,16),(4,17,31)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,8),(2,9,17),(2,9,16),(4,17,31)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,13,24),(2,9,16),(2,9,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(3,13,24),(2,9,17)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,31),(3,13,24),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(4,17,31),(3,13,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(1,4,7),(4,17,31)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(4,18,31),(2,9,16)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,18),(2,9,17),(1,4,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,9),(2,9,18),(2,9,17)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,8),(1,5,9),(2,9,17),(4,18,31)); lvl=2; h,r-ind=1,1
    [4,3]((4,19,33),(1,5,9),(2,9,16),(2,9,17)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,14,25),(2,9,16),(2,9,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(3,14,25),(2,9,17)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,33),(3,14,25),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(4,19,33),(3,14,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(4,19,33),(2,9,16)); lvl=3; h,r-ind=1,1
    [3,3]((4,18,31),(1,5,8),(2,9,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(4,19,33),(1,5,9)); lvl=3; h,r-ind=1,1
  [5,3]((1,5,7),(1,5,8),(4,18,31),(1,4,6),(1,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,15),(1,4,7),(4,18,31)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(2,9,15),(4,18,31)); lvl=3; h,r-ind=1,1
    [4,3]((4,18,29),(3,14,22),(1,5,8),(2,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,23,37),(1,5,8),(3,14,22)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,29),(5,23,37),(3,14,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,15),(4,18,29),(5,23,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,15),(5,23,37),(1,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(3,14,22),(1,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((3,13,21),(4,18,29),(2,9,15),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,15),(4,18,29),(5,22,36)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,21),(4,18,29),(5,22,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,13,21),(5,22,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,9,15),(5,22,36)); lvl=4; h,r-ind=1,1
    [3,3]((3,13,21),(1,4,7),(1,4,6)); lvl=3; h,r-ind=1,1
    [5,3]((1,5,7),(3,13,21),(4,18,29),(3,14,22),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,22),(1,5,7),(2,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,5,7),(2,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,29),(3,14,22),(2,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,21),(4,18,29),(2,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(3,13,21),(2,9,14)); lvl=4; h,r-ind=1,1
[3,3]((0,1,0),(1,5,9),(1,5,7)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((0,1,0),(1,0,0),(1,5,7),(1,4,6)); lvl=1; h,r-ind=1,1
  [5,3]((3,13,18),(1,2,2),(2,7,7),(1,2,3),(1,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,6),(1,3,4),(3,10,13),(3,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,10,13),(4,14,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,15),(3,10,13),(4,14,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,3,4),(4,14,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,15),(1,4,6),(4,14,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(3,10,13),(3,11,15)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,4,6),(1,4,5),(3,13,18),(3,11,15)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((3,13,18),(2,8,11),(1,4,5)); lvl=4; h,r-ind=1,1
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      [3,3]((3,11,15),(2,8,11),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(3,13,18),(2,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,15),(1,4,6),(2,8,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,3),(1,4,5),(3,10,13)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,3),(1,4,5),(2,7,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,4,6),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(1,3,3),(1,3,4),(3,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,10,13),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,6,7),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,7),(3,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,2,2),(2,6,7)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,7),(3,13,18),(1,4,6)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,5,7),(3,13,18),(2,7,7)); lvl=2; h,r-ind=1,3; alert-r-inc
    [4,3]((1,4,5),(1,5,7),(3,14,18),(3,13,18)); lvl=3; h,r-ind=1,3
      [3,3]((2,9,12),(3,14,18),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,18),(2,9,12),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(3,13,18),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,12),(3,14,18)); lvl=4; h,r-ind=1,1
    [4,3]((3,14,16),(2,9,10),(1,4,5),(3,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,11),(2,9,10),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,18),(2,9,11),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,16),(2,9,11),(2,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,16),(3,14,17),(2,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,18),(3,14,17),(2,9,11)); lvl=4; h,r-ind=1,1
    [4,3]((4,18,19),(1,5,5),(3,14,16),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,15),(1,5,5),(3,14,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,10),(3,14,15),(3,14,16)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,19),(2,9,10),(3,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,19),(3,14,15),(1,5,5)); lvl=4; h,r-ind=1,1
    [4,3]((4,18,19),(2,9,10),(1,4,4),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,14),(1,4,4),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,14),(2,9,10),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,19),(3,13,14),(2,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,19),(3,13,14),(1,4,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,4),(2,7,7),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,7,7)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(4,18,19),(1,5,5),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,9),(4,18,19),(1,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(0,1,0),(2,9,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(2,9,9),(4,18,19)); lvl=4; h,r-ind=1,1
    [5,3]((0,1,0),(1,5,5),(3,14,16),(1,5,7),(3,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(3,14,17),(3,14,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(1,5,6),(3,14,18)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,7),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(3,14,16),(3,14,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(1,5,6),(3,14,16)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(1,5,6)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,2),(1,0,0),(1,2,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,2,2),(2,7,7)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,0,0),(2,5,13),(1,4,11)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((1,5,14),(1,0,0),(1,4,11)); lvl=1; h,r-ind=1,1
```

14.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,6,14)); lvl=0; h,r-ind=14,98
  [4,3]((1,0,0),(1,6,7),(1,2,3),(0,1,0)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(1,4,5),(1,1,1),(2,7,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,7),(1,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(2,5,5),(1,4,5),(1,3,3)); lvl=3; h,r-ind=1,1
        [3,3]((2,6,7),(1,3,3),(2,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,6,7),(2,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(1,4,5),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,6,7),(1,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(1,2,3),(2,5,5),(1,1,1)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,2),(1,2,3),(1,1,1),(3,7,9)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,1,1),(2,4,5),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,9),(2,4,5),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(3,7,9),(2,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(1,1,1),(2,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(1,2,2),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,2,2),(2,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,2,3),(3,7,9)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,7,7)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((0,1,0),(1,6,7),(1,4,5),(2,7,7)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,4),(1,4,5),(1,5,5),(1,5,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,5),(1,5,6),(2,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(1,5,6),(2,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(1,5,5),(2,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(1,4,4),(2,9,10)); lvl=4; h,r-ind=1,1
      [4,3]((0,1,0),(1,6,7),(1,5,5),(1,5,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,6),(1,5,5),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(1,6,6),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,6,7),(1,6,6)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,6,6),(1,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,7),(1,4,4),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,7,7),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,8),(1,6,7),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,6,14),(1,6,8),(0,1,0)); lvl=1; h,r-ind=6,6; optimized-h
  [5,3]((1,2,4),(1,6,8),(1,6,7),(1,2,3),(1,4,8)); lvl=1; h,r-ind=2,1
    [4,3]((1,3,5),(2,7,12),(1,3,6),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,12),(1,3,6),(2,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,6),(2,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,12),(2,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,4),(2,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,5),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,13),(1,3,5),(1,4,6),(2,7,12)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,18),(1,3,5),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,13),(3,11,18),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,12),(3,11,18),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,13),(2,7,12),(3,11,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,7),(2,9,14),(2,8,13),(1,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,14),(2,8,13),(3,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,8,13),(3,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,9,14),(3,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,5,7),(3,13,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(1,5,7),(1,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,8),(1,5,8),(1,5,7),(2,9,14)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,8),(2,9,14),(2,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,9,14),(2,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(1,5,7),(2,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(1,5,8),(2,10,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(1,3,5),(1,4,6),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(3,10,15),(1,4,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(1,4,5),(3,10,15),(1,4,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,5),(2,7,10),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,15),(2,7,10),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,5),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,15),(1,3,4),(2,7,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(1,3,4),(1,3,5),(3,10,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,9),(3,10,15),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,6,9),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,9),(1,3,5),(3,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,6,9),(1,3,5)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,7),(1,6,7),(1,4,6),(1,4,5)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,6),(3,14,19),(1,5,6),(1,4,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,12),(1,5,6),(3,14,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(2,9,12),(3,14,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,9,12),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(1,4,5),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(1,4,6),(3,14,19)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,7),(1,5,7),(3,14,19),(1,5,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,10,13),(3,14,19),(1,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(2,10,13),(1,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,13),(1,5,6),(3,14,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(2,10,13),(1,5,6)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,8),(2,8,13),(2,7,12),(1,3,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,7),(4,14,25),(2,7,12),(2,8,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,14,25),(3,11,19),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,13),(3,11,19),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,8,13),(3,11,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(4,14,25),(3,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(4,14,25),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(1,3,6),(4,14,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(1,4,7),(1,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,8),(1,5,8),(2,9,14),(2,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,8),(2,9,14),(4,18,29)); lvl=3; h,r-ind=1,1
      [4,3]((2,8,13),(1,4,7),(2,9,14),(4,18,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,14),(4,18,29),(3,13,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(4,18,29),(3,13,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,13),(2,9,14),(3,13,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,8,13),(3,13,21)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,4,7),(1,5,8),(4,18,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(1,4,7),(1,5,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,14),(1,6,8),(1,4,8)); lvl=1; h,r-ind=12,6; optimized-h
  [3,3]((1,0,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,3,7),(1,6,14),(1,2,4),(1,4,8)); lvl=1; h,r-ind=2,2
    [3,3]((1,4,9),(1,6,14),(1,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,9),(1,3,6),(1,4,8),(1,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,8),(2,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,11),(1,4,8),(2,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(1,3,6),(2,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,11),(1,4,9),(2,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(1,2,4),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(1,4,9),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(1,4,9),(1,6,14)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,7),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
```

14.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,7,14)); lvl=0; h,r-ind=14,28
  [3,3]((1,7,14),(1,7,7),(2,7,14)); lvl=1; h,r-ind=49,7; alert-h-inc
    [5,3]((1,7,14),(2,14,21),(1,5,10),(1,5,9),(4,21,35)); lvl=2; h,r-ind=1,1
      [4,3]((2,11,19),(2,11,18),(1,5,9),(4,21,35)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,18),(4,21,35),(3,16,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(4,21,35),(3,16,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,19),(2,11,18),(3,16,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(2,11,19),(3,16,27)); lvl=4; h,r-ind=1,1
      [4,3]((2,12,19),(2,11,19),(1,6,10),(2,11,18)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,10),(3,17,28),(2,11,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,18),(3,17,28),(2,11,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,19),(1,6,10),(3,17,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,18),(2,12,19),(3,17,28)); lvl=4; h,r-ind=1,1
      [4,3]((2,12,21),(4,22,39),(2,11,19),(1,6,10)); lvl=3; h,r-ind=1,1
        [4,3]((4,22,39),(3,17,30),(2,11,19),(6,34,59)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,17,30),(6,34,59),(5,28,49)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,19),(6,34,59),(5,28,49)); lvl=5; h,r-ind=1,1
          [3,3]((4,22,39),(3,17,30),(5,28,49)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,19),(4,22,39),(5,28,49)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(2,11,19),(6,34,59)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,10),(2,12,21),(3,17,30),(6,34,59)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,23,40),(2,12,21),(3,17,30)); lvl=5; h,r-ind=1,1
          [3,3]((6,34,59),(4,23,40),(3,17,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,10),(6,34,59),(4,23,40)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,10),(4,23,40),(2,12,21)); lvl=5; h,r-ind=1,1
      [4,3]((2,14,21),(1,7,11),(2,12,19),(1,6,10)); lvl=3; h,r-ind=1,1
        [4,3]((2,13,20),(4,26,41),(1,6,10),(2,12,19)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,26,41),(3,19,30),(1,6,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,19),(3,19,30),(1,6,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,20),(2,12,19),(3,19,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,20),(4,26,41),(3,19,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,11),(4,26,41),(1,6,10)); lvl=4; h,r-ind=1,1
        [4,3]((2,14,21),(2,13,20),(1,7,11),(4,26,41)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,20,31),(2,13,20),(4,26,41)); lvl=5; h,r-ind=1,1
          [3,3]((3,20,31),(1,7,11),(4,26,41)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,21),(3,20,31),(1,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,21),(3,20,31),(2,13,20)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,12),(2,12,21),(1,7,11),(1,6,10)); lvl=3; h,r-ind=1,1
        [3,3]((2,12,21),(2,13,22),(1,6,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,11),(2,13,22),(1,6,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,12),(2,12,21),(2,13,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,11),(1,7,12),(2,13,22)); lvl=4; h,r-ind=1,1
      [4,3]((4,22,39),(3,16,29),(2,11,19),(1,5,9)); lvl=3; h,r-ind=1,1
        [3,3]((5,27,48),(1,5,9),(3,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((4,22,39),(5,27,48),(3,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((5,27,48),(2,11,19),(1,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,22,39),(5,27,48),(2,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,29),(1,5,9),(1,5,10)); lvl=3; h,r-ind=1,1
      [5,3]((2,12,21),(1,6,12),(4,22,39),(3,16,29),(1,5,10)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,20),(4,22,39),(3,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,20),(1,5,10),(3,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((4,22,41),(2,11,20),(1,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(4,22,41),(2,11,20)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,11),(4,22,41),(1,6,12),(1,5,10)); lvl=4; h,r-ind=1,1
          [3,3]((1,5,10),(2,11,21),(4,22,41)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(2,11,21),(4,22,41)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,12),(1,6,11),(2,11,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,12),(1,5,10),(2,11,21)); lvl=5; h,r-ind=1,1
        [3,3]((3,17,30),(2,11,20),(4,22,39)); lvl=4; h,r-ind=1,1
```

```
      [4,3]((1,6,11),(2,12,21),(3,17,30),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,21),(3,17,30),(4,23,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,20),(3,17,30),(4,23,41)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(2,12,21),(4,23,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,20),(1,6,11),(4,23,41)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,14),(1,7,12),(2,12,21),(1,6,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,11),(1,7,12),(2,12,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,13),(1,6,11),(1,7,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,13),(1,7,14),(1,6,12),(1,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,14),(1,6,12),(2,13,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(1,6,12),(2,13,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,13),(1,7,14),(2,13,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(1,7,13),(2,13,25)); lvl=5; h,r-ind=1,1
  [5,3]((1,4,7),(1,5,8),(1,4,8),(1,5,9),(4,21,35)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,17),(1,5,9),(4,21,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(2,10,17),(4,21,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(1,4,7),(3,14,24)); lvl=3; h,r-ind=1,1
    [4,3]((3,14,25),(4,19,33),(2,10,17),(1,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,24,42),(2,10,17),(4,19,33)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,25),(5,24,42),(4,19,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(3,14,25),(5,24,42)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(5,24,42),(2,10,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(3,14,25),(1,5,9)); lvl=3; h,r-ind=1,1
    [5,3]((1,4,7),(1,4,8),(3,14,24),(3,14,25),(4,19,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,16),(4,19,33),(3,14,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(1,4,8),(3,14,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,9,16),(1,4,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(3,14,24),(4,19,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,9,16),(3,14,24)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,8),(3,14,24),(4,19,33),(2,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,24),(4,19,33),(5,24,41)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,17),(4,19,33),(5,24,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(3,14,24),(5,24,41)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,17),(1,5,8),(5,24,41)); lvl=4; h,r-ind=1,1
  [3,3]((2,7,14),(1,4,7),(1,4,8)); lvl=2; h,r-ind=1,1
  [5,3]((1,7,7),(1,5,7),(1,5,8),(2,14,21),(4,21,35)); lvl=2; h,r-ind=1,1
    [4,3]((2,11,17),(1,5,8),(2,11,18),(4,21,35)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,16,26),(4,21,35),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,17),(3,16,26),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,26),(2,11,18),(4,21,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,17),(3,16,26),(2,11,18)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,9),(2,11,17),(2,12,19),(2,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,18),(2,11,17),(3,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(2,11,17),(3,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,19),(1,6,9),(3,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,19),(2,11,18),(3,17,27)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,9),(1,7,10),(2,14,21),(2,12,19)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,10),(4,26,39),(2,14,21),(2,13,20)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,20,30),(4,26,39),(2,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,21),(3,20,30),(2,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(2,14,21),(3,20,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(3,20,30),(4,26,39)); lvl=5; h,r-ind=1,1
      [4,3]((2,12,19),(1,6,9),(4,26,39),(2,13,20)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,19,29),(1,6,9),(4,26,39)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,29),(2,13,20),(4,26,39)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,19),(3,19,29),(2,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,19),(3,19,29),(1,6,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(1,7,10),(4,26,39)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,9),(2,12,17),(1,6,9),(1,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,17),(1,6,9),(2,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,10),(1,6,9),(2,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(1,7,10),(2,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(2,12,17),(2,13,18)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,7),(1,7,7),(1,7,9),(2,12,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(1,7,8),(1,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(2,12,17),(1,7,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,7),(1,6,8),(1,7,7),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,7),(1,7,8),(2,13,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(1,7,8),(2,13,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(1,7,7),(2,13,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(1,6,7),(2,13,15)); lvl=5; h,r-ind=1,1
    [4,3]((4,22,33),(2,12,17),(1,6,9),(2,11,17)); lvl=3; h,r-ind=1,1
      [4,3]((2,12,17),(3,17,25),(1,6,9),(6,34,51)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,23,34),(3,17,25),(6,34,51)); lvl=5; h,r-ind=1,1
        [3,3]((4,23,34),(1,6,9),(6,34,51)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,17),(4,23,34),(1,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,17),(4,23,34),(3,17,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,17),(1,6,9),(6,34,51)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,17),(4,22,33),(3,17,25),(6,34,51)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,22,33),(5,28,42),(3,17,25)); lvl=5; h,r-ind=1,1
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          [3,3]((6,34,51),(5,28,42),(3,17,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,17),(6,34,51),(5,28,42)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,17),(4,22,33),(5,28,42)); lvl=5; h,r-ind=1,1
      [5,3]((1,6,7),(1,5,7),(3,16,24),(4,22,33),(2,12,17)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,7),(2,11,16),(4,22,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(2,11,16),(4,22,31)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,8),(2,12,17),(3,17,25),(2,11,16)); lvl=4; h,r-ind=1,1
          [3,3]((2,12,17),(3,17,25),(4,23,33)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,16),(3,17,25),(4,23,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,8),(2,11,16),(4,23,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,8),(2,12,17),(4,23,33)); lvl=5; h,r-ind=1,1
        [4,3]((1,6,7),(1,6,8),(1,5,7),(4,22,31)); lvl=4; h,r-ind=1,1
          [3,3]((1,6,8),(4,22,31),(2,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(4,22,31),(2,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(1,6,8),(2,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(1,6,7),(2,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((3,16,24),(1,5,7),(2,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,24),(4,22,33),(2,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,25),(4,22,33),(2,11,16)); lvl=4; h,r-ind=1,1
      [4,3]((3,16,24),(4,22,33),(2,11,17),(1,5,8)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,17),(4,22,33),(5,27,41)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,24),(4,22,33),(5,27,41)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(3,16,24),(5,27,41)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(2,11,17),(5,27,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(3,16,24),(1,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(1,5,7),(1,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,8),(1,5,10),(1,5,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,7,7),(2,7,14)); lvl=1; h,r-ind=49,7; alert-h-inc
    [5,3]((1,4,6),(1,5,7),(4,14,21),(1,7,7),(2,7,7)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,5),(2,9,11),(1,4,5),(1,4,4)); lvl=3; h,r-ind=1,1
        [3,3]((2,9,10),(1,4,5),(2,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(2,9,10),(2,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(1,4,4),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(2,9,10),(1,4,4)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,9),(2,7,7),(1,4,5),(1,4,4)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,5),(1,4,4),(4,15,17)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,8),(2,7,7),(1,4,4),(4,15,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,11,12),(2,7,7),(1,4,4)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,17),(3,11,12),(1,4,4)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(4,15,17),(3,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(3,11,12),(2,7,7)); lvl=5; h,r-ind=1,1
        [4,3]((2,7,9),(2,7,8),(1,4,5),(4,15,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,7,8),(4,15,17),(3,11,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(4,15,17),(3,11,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,9),(2,7,8),(3,11,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(2,7,9),(3,11,13)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,7),(1,7,7),(1,5,5),(2,9,11)); lvl=3; h,r-ind=1,1
        [4,3]((1,6,7),(1,5,6),(1,7,7),(1,6,6)); lvl=4; h,r-ind=1,1
          [3,3]((1,5,6),(1,6,6),(2,12,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(1,6,6),(2,12,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(1,7,7),(2,12,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(1,5,6),(2,12,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(1,5,5),(1,6,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,9,11),(1,5,5)); lvl=4; h,r-ind=1,1
      [4,3]((4,17,23),(2,8,11),(2,9,11),(1,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,5),(2,8,11),(6,25,33)); lvl=4; h,r-ind=1,1
        [4,3]((3,13,17),(4,17,23),(2,8,11),(6,25,33)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,21,28),(2,8,11),(4,17,23)); lvl=5; h,r-ind=1,1
          [3,3]((3,13,17),(5,21,28),(4,17,23)); lvl=5; h,r-ind=1,1
          [3,3]((6,25,33),(5,21,28),(2,8,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,13,17),(6,25,33),(5,21,28)); lvl=5; h,r-ind=1,1
        [4,3]((2,9,11),(3,13,17),(1,4,5),(6,25,33)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,13,17),(6,25,33),(4,17,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(6,25,33),(4,17,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,11),(1,4,5),(4,17,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,11),(3,13,17),(4,17,22)); lvl=5; h,r-ind=1,1
      [4,3]((2,7,10),(2,7,9),(2,8,11),(1,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((3,11,15),(1,4,5),(2,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(3,11,15),(2,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,9),(2,7,10),(3,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,9),(3,11,15),(1,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,6),(4,14,21),(2,7,10),(2,8,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,14,21),(3,11,16),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,11),(3,11,16),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(4,14,21),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,11),(1,4,6),(3,11,16)); lvl=4; h,r-ind=1,1
      [5,3]((1,5,7),(1,6,7),(3,13,18),(4,17,23),(2,9,11)); lvl=3; h,r-ind=1,1
        [4,3]((2,9,12),(1,5,6),(3,13,17),(2,9,11)); lvl=4; h,r-ind=1,1
          [3,3]((4,18,23),(2,9,11),(1,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,12),(4,18,23),(1,5,6)); lvl=5; h,r-ind=1,1
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      [3,3]((3,13,17),(4,18,23),(2,9,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,12),(3,13,17),(4,18,23)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,12),(4,19,25),(1,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,12),(4,19,25)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,7),(4,19,25),(1,6,7),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,13),(4,19,25),(1,5,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(2,10,13),(1,5,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(1,6,7),(2,10,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(2,10,13),(4,19,25)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,12),(3,13,17),(4,17,23)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,12),(3,13,18),(4,17,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,12),(3,13,18)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,6),(1,5,7),(3,13,18)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,6),(3,13,18),(4,17,23),(2,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,18),(4,17,23),(5,21,29)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,11),(4,17,23),(5,21,29)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(3,13,18),(5,21,29)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,11),(1,4,6),(5,21,29)); lvl=4; h,r-ind=1,1
[5,3]((1,0,0),(4,14,21),(1,3,5),(1,2,4),(2,7,7)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,7),(1,2,2),(1,1,2),(1,0,0)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(1,1,2),(1,1,1),(1,0,0)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(1,0,0),(1,1,2)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(2,2,3),(1,1,2)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,3),(2,2,3)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,1),(2,2,3),(1,0,0)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(1,1,1)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(1,2,2)); lvl=4; h,r-ind=1,1
  [5,3]((4,11,17),(3,8,13),(2,5,7),(1,2,4),(1,1,2)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(1,2,3),(4,9,15),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(4,9,15),(1,2,3)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,2),(2,4,7),(1,2,3)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,4),(1,1,2),(2,4,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,7),(4,9,15)); lvl=5; h,r-ind=1,1
    [3,3]((2,5,8),(1,2,4),(4,9,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,8),(3,8,13),(1,2,4)); lvl=4; h,r-ind=1,1
    [3,3]((4,11,17),(2,5,8),(3,8,13)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,8),(1,2,3),(4,9,15)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,8),(1,2,3),(2,5,7),(3,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,15),(2,5,7),(1,2,3)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,8),(4,10,15),(1,2,3)); lvl=5; h,r-ind=1,1
      [3,3]((4,10,15),(3,8,12),(2,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,8),(4,10,15),(3,8,12)); lvl=5; h,r-ind=1,1
    [3,3]((4,11,17),(2,5,8),(3,8,12)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,5),(3,8,13),(1,2,4)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,4),(2,6,9),(4,11,17),(2,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,9),(6,17,25),(3,8,12),(4,11,17)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,12),(5,14,21),(6,17,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,9),(5,14,21),(6,17,25)); lvl=5; h,r-ind=1,1
      [3,3]((4,11,17),(3,8,12),(5,14,21)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,9),(4,11,17),(5,14,21)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,9),(6,17,25)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,7),(1,3,4),(6,17,25),(3,8,12)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,11,16),(6,17,25),(1,3,4)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,7),(4,11,16),(1,3,4)); lvl=5; h,r-ind=1,1
      [3,3]((4,11,16),(3,8,12),(6,17,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,7),(4,11,16),(3,8,12)); lvl=5; h,r-ind=1,1
  [4,3]((2,7,10),(1,3,4),(2,7,9),(2,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,9),(3,10,14),(1,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,9),(3,10,14),(1,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,10),(2,6,9),(3,10,14)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,10),(2,7,9),(3,10,14)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,5),(2,6,9),(4,11,17),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(4,11,17),(5,14,22)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,13),(4,11,17),(5,14,22)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(2,6,9),(5,14,22)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,13),(1,3,5),(5,14,22)); lvl=4; h,r-ind=1,1
  [4,3]((2,7,10),(4,14,21),(1,3,5),(2,6,9)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((1,3,5),(4,14,21),(3,10,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,10),(4,14,21),(3,10,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,9),(1,3,5),(3,10,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,10),(2,6,9),(3,10,15)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,4),(1,3,3),(2,5,7),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(1,2,2),(1,3,3)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,6),(1,3,3)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,6),(2,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,6),(2,5,7),(1,2,2)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,4),(2,7,9),(1,3,3),(2,7,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(4,13,15),(2,7,8),(2,7,7)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,10,11),(2,7,8),(4,13,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,3),(3,10,11),(4,13,15)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((2,7,7),(3,10,11),(2,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(2,7,7),(3,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(1,3,3),(4,13,15)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,4),(4,13,15),(2,7,9),(2,7,8)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,7,8),(2,7,9),(3,10,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(2,7,9),(3,10,12)); lvl=5; h,r-ind=1,1
          [3,3]((4,13,15),(2,7,8),(3,10,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(4,13,15),(3,10,12)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,5),(1,2,4)); lvl=2; h,r-ind=1,1
    [5,3]((1,4,7),(1,4,6),(4,14,21),(1,3,6),(1,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(4,14,21),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(4,14,21),(2,7,11)); lvl=3; h,r-ind=1,1
      [4,3]((4,14,23),(3,11,18),(1,4,6),(2,7,11)); lvl=3; h,r-ind=1,1
        [3,3]((5,18,29),(1,4,6),(3,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,23),(5,18,29),(3,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,11),(5,18,29),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,23),(2,7,11),(5,18,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,11,18),(1,4,6)); lvl=3; h,r-ind=1,1
      [4,3]((3,10,17),(4,14,23),(1,3,5),(2,7,11)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,11),(4,14,23),(5,17,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,17),(4,14,23),(5,17,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(3,10,17),(5,17,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,7,11),(5,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,17),(1,3,5),(1,3,6)); lvl=3; h,r-ind=1,1
      [5,3]((1,4,7),(3,10,17),(4,14,23),(3,11,18),(1,3,6)); lvl=3; h,r-ind=1,1
        [3,3]((3,11,18),(1,4,7),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,4,7),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,23),(3,11,18),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,17),(4,14,23),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(3,10,17),(2,7,12)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,14),(1,4,7),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,7),(1,4,6),(1,5,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,7,14),(1,7,7)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,7,7)); lvl=1; h,r-ind=7,7; optimized-h
```

14.12 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,14)); lvl=0; h,r-ind=14,98
  [5,3]((4,5,22),(1,1,4),(3,3,13),(3,4,17),(3,4,16)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,17),(3,4,16),(4,5,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(3,4,16),(4,5,21)); lvl=2; h,r-ind=1,1
    [4,3]((6,7,30),(9,11,47),(1,1,4),(4,5,21)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,21),(9,11,47),(10,12,51)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,30),(9,11,47),(10,12,51)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(6,7,30),(10,12,51)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(4,5,21),(10,12,51)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,30),(1,1,4),(3,3,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,22),(6,7,30),(3,3,13)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((8,10,43),(9,11,47),(3,4,17),(4,5,21)); lvl=2; h,r-ind=1,1
      [3,3]((12,15,64),(9,11,47),(4,5,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,17),(12,15,64),(4,5,21)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,43),(3,4,17),(12,15,64)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,43),(12,15,64),(9,11,47)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,22),(8,10,43),(3,4,17)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,22),(6,7,30),(8,10,43),(9,11,47)); lvl=2; h,r-ind=1,1
      [4,3]((5,6,26),(22,27,116),(9,11,47),(6,7,30)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,11,47),(22,27,116),(14,17,73)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,26),(22,27,116),(14,17,73)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,30),(9,11,47),(14,17,73)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,26),(6,7,30),(14,17,73)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,43),(22,27,116),(9,11,47)); lvl=3; h,r-ind=1,1
      [4,3]((5,6,26),(4,5,22),(8,10,43),(22,27,116)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,5,22),(13,16,69),(8,10,43)); lvl=4; h,r-ind=1,1
        [3,3]((22,27,116),(13,16,69),(8,10,43)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,26),(4,5,22),(13,16,69)); lvl=4; h,r-ind=1,1
        [3,3]((22,27,116),(5,6,26),(13,16,69)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,11),(2,3,13),(3,4,17),(3,4,16)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,12),(2,3,13),(3,4,17),(8,11,45)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,13),(5,7,29),(3,4,17)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,45),(5,7,29),(3,4,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,12),(8,11,45),(5,7,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,12),(2,3,13),(5,7,29)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,16),(3,4,17),(8,11,45)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,16),(2,3,11),(2,3,12),(8,11,45)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,7,28),(2,3,11),(2,3,12)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,45),(5,7,28),(2,3,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,16),(8,11,45),(5,7,28)); lvl=3; h,r-ind=1,1
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```
      [3,3]((3,4,16),(5,7,28),(2,3,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,6),(2,3,11),(1,2,7),(2,3,13)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,7),(4,7,25),(2,3,12),(2,3,13)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,19),(4,7,25),(2,3,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(3,5,19),(2,3,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(2,3,13),(3,5,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(3,5,19),(4,7,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(1,2,7),(4,7,25)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,6),(4,7,25),(2,3,11),(2,3,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,11),(2,3,12),(3,5,18)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,25),(2,3,12),(3,5,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(4,7,25),(3,5,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(2,3,11),(3,5,18)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,14),(1,2,7),(2,3,13)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,6),(1,2,7)); lvl=1; h,r-ind=1,1
  [5,3]((2,3,11),(2,3,7),(2,2,5),(1,1,4),(3,4,16)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,11),(2,3,9),(6,8,25),(3,4,15)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,13),(2,3,9),(6,8,25)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,10),(6,8,27),(3,4,13),(2,3,9)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,23),(3,4,13),(6,8,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(5,7,23),(6,8,27)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,23),(2,3,9),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(5,7,23),(2,3,9)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,11),(2,3,10),(3,4,15),(6,8,27)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,10),(3,4,14),(7,10,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(2,3,11),(7,10,35)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,11),(3,4,15),(3,4,14),(7,10,35)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,15),(5,7,25),(3,4,14)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,35),(5,7,25),(3,4,14)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,11),(3,4,15),(5,7,25)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,35),(2,3,11),(5,7,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(3,4,14),(6,8,27)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,4),(1,1,3),(6,8,25),(3,4,15)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,3),(6,8,27),(3,4,13),(6,7,24)); lvl=3; h,r-ind=1,1
        [4,3]((4,5,17),(3,4,13),(6,8,27),(8,10,33)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,13),(6,8,27),(7,9,30)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,17),(6,8,27),(7,9,30)); lvl=5; h,r-ind=1,1
          [3,3]((8,10,33),(3,4,13),(7,9,30)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,17),(8,10,33),(7,9,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(4,5,17),(8,10,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(4,5,17),(6,7,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(3,4,13),(8,10,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(1,1,3),(6,7,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(6,8,25),(3,4,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,4),(3,4,15),(6,8,27),(6,7,24)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((4,5,17),(3,4,14),(9,11,39)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,1,4),(3,4,15),(3,4,14),(9,11,39)); lvl=4; h,r-ind=1,3
          [3,3]((4,5,18),(3,4,14),(3,4,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(4,5,18),(3,4,15)); lvl=5; h,r-ind=1,1
          [3,3]((9,11,39),(4,5,18),(3,4,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(9,11,39),(4,5,18)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,4),(6,7,24),(4,5,17),(9,11,39)); lvl=4; h,r-ind=1,3
          [3,3]((5,6,21),(4,5,17),(6,7,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(5,6,21),(6,7,24)); lvl=5; h,r-ind=1,1
          [3,3]((9,11,39),(5,6,21),(4,5,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(9,11,39),(5,6,21)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,17),(6,8,27),(3,4,14)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,16),(1,1,4),(3,4,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,11),(3,4,16),(3,4,15)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(2,3,7),(2,3,9),(6,8,25)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,8),(6,8,23),(2,3,9),(3,4,12)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,20),(3,4,12),(6,8,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(5,7,20),(6,8,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(2,3,8),(5,7,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(5,7,20),(3,4,12)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,25),(2,3,9),(3,4,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(6,8,25),(3,4,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(6,8,23),(3,4,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,3),(2,3,8),(2,3,7),(6,8,23)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,11),(2,3,7),(2,3,8)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,23),(3,4,11),(2,3,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(6,8,23),(3,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(3,4,11),(2,3,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,3),(2,2,5),(2,3,7)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,6),(2,3,11),(2,3,7)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,9),(1,2,5),(2,3,11),(2,3,9)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,5),(4,7,19),(2,3,11),(2,3,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,11),(3,5,15),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,19),(3,5,15),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(4,7,19),(3,5,15)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,2,5),(2,3,11),(3,5,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,9),(4,7,19),(2,3,10)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,4,9),(1,2,5),(4,7,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(2,4,9),(4,7,19)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,3,7),(1,2,4),(2,4,9),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,17),(1,2,4),(2,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(4,7,17),(2,4,9)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,3,8),(2,3,9),(4,7,17)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,3,8),(2,3,7),(4,7,17),(1,2,4)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,12),(2,3,7),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,17),(3,5,12),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,8),(4,7,17),(3,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,8),(3,5,12),(2,3,7)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(2,4,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,7),(0,1,0),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,9),(1,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,6),(1,2,5),(2,3,11)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(2,2,5),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
[4,3]((0,1,0),(2,3,7),(1,0,0),(2,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(2,2,5),(2,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,6),(1,1,2),(2,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,6),(2,3,7)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,3,6),(2,3,5),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,2),(2,3,5),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(2,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,4),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(1,2,2),(2,3,4)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(1,2,2),(2,2,3)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((1,1,1),(0,1,0),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,6),(1,2,2),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,3,6),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,8),(2,3,6),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,8),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(3,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,8),(2,3,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,2),(1,2,3),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,2),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,5)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,1,4),(3,3,13)); lvl=1; h,r-ind=1,1
[4,3]((2,3,14),(2,3,13),(4,5,22),(3,4,17)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,17),(2,3,13),(8,11,48)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,18),(2,3,14),(2,3,13),(8,11,48)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((5,7,31),(2,3,14),(2,3,13)); lvl=3; h,r-ind=1,1
    [3,3]((8,11,48),(5,7,31),(2,3,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,18),(8,11,48),(5,7,31)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,18),(5,7,31),(2,3,14)); lvl=3; h,r-ind=1,1
  [4,3]((4,5,22),(3,4,18),(3,4,17),(8,11,48)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((3,4,18),(8,11,48),(6,8,35)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,17),(8,11,48),(6,8,35)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,22),(3,4,18),(6,8,35)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,17),(4,5,22),(6,8,35)); lvl=3; h,r-ind=1,1
[4,3]((2,3,14),(1,0,0),(4,5,22),(3,3,13)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,9),(1,0,0),(3,3,13)); lvl=2; h,r-ind=1,1
  [3,3]((2,2,9),(4,5,22),(3,3,13)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,18),(2,2,9),(4,5,22)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,14),(3,4,18),(2,2,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,14),(2,2,9),(1,0,0)); lvl=2; h,r-ind=1,1
```

14.13 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,5,14)); lvl=0; h,r-ind=14,98
  [4,3]((0,1,0),(2,5,7),(1,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((3,7,9),(1,1,1),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,2),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
```

```
  [3,3]((3,7,9),(2,5,7),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,7,9),(2,5,7)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(3,7,9),(1,2,2)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(1,1,1),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
[4,3]((4,5,13),(1,2,4),(1,2,3),(1,0,0)); lvl=1; h,r-ind=1,2
  [3,3]((1,1,2),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,2),(1,0,0),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((3,3,7),(1,1,2),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((2,2,5),(3,3,7),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,13),(2,2,5),(1,0,0)); lvl=2; h,r-ind=1,1
  [4,3]((5,7,17),(3,3,7),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((8,10,23),(5,6,14),(3,3,7),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,16),(3,3,7),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,23),(6,7,16),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(8,10,23),(6,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(6,7,16),(3,3,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(2,3,7),(8,10,23),(1,1,2)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,3,7),(3,4,9),(8,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,9),(8,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,1,2),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,7),(3,4,9)); lvl=4; h,r-ind=1,1
    [4,3]((4,5,12),(2,3,7),(8,10,23),(5,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,21),(8,10,23),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,12),(7,9,21),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,21),(5,6,14),(8,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,12),(7,9,21),(5,6,14)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,12),(5,7,17),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,12),(5,6,14),(3,3,7)); lvl=3; h,r-ind=1,1
  [4,3]((4,5,13),(2,2,5),(5,7,17),(3,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((6,7,17),(11,13,32),(2,2,5),(3,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,22),(2,2,5),(11,13,32)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,17),(8,9,22),(11,13,32)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,17),(3,3,7),(8,9,22)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,7),(8,9,22),(2,2,5)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,12),(6,7,17),(3,3,7)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,10),(4,5,12),(6,7,17),(11,13,32)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(9,11,27),(6,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((11,13,32),(9,11,27),(6,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(11,13,32),(9,11,27)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(4,5,12),(9,11,27)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,10),(5,7,17),(4,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,13),(3,4,10),(11,13,32),(2,2,5)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((5,6,15),(11,13,32),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,13),(5,6,15),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,15),(2,2,5),(11,13,32)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,13),(5,6,15),(2,2,5)); lvl=4; h,r-ind=1,1
[3,3]((2,3,8),(4,5,13),(1,0,0)); lvl=1; h,r-ind=1,1
[3,3]((2,5,14),(2,3,8),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
[6,3]((4,9,24),(3,7,18),(2,3,8),(4,5,13),(1,2,4),(3,7,14)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,5),(3,7,18),(3,7,16)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,2,5),(3,7,14),(3,7,16)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,2,5),(3,7,14),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,5),(5,7,17),(1,2,4)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,2,5),(4,5,13),(5,7,17)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,2,5),(2,3,8),(4,5,13)); lvl=2; h,r-ind=1,1
  [3,3]((4,9,24),(1,2,5),(3,7,18)); lvl=2; h,r-ind=1,1
  [3,3]((4,9,24),(3,6,16),(1,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((3,6,16),(1,2,5),(2,3,8)); lvl=2; h,r-ind=1,1
[4,3]((2,5,14),(4,9,24),(3,7,18),(2,5,13)); lvl=1; h,r-ind=1,1
  [4,3]((3,7,19),(8,19,50),(3,7,18),(4,9,24)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((8,19,50),(6,14,37),(3,7,18)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,24),(6,14,37),(3,7,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,19),(4,9,24),(6,14,37)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,19),(8,19,50),(6,14,37)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,13),(8,19,50),(3,7,18)); lvl=2; h,r-ind=1,1
  [4,3]((3,7,19),(2,5,14),(2,5,13),(8,19,50)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((5,12,32),(2,5,13),(2,5,14)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,19),(5,12,32),(2,5,14)); lvl=3; h,r-ind=1,1
    [3,3]((8,19,50),(5,12,32),(2,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,19),(8,19,50),(5,12,32)); lvl=3; h,r-ind=1,1
[3,3]((2,5,14),(4,9,24),(2,3,8)); lvl=1; h,r-ind=4,2; optimized-h
[4,3]((1,3,5),(2,5,9),(0,1,0),(2,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,7),(2,5,8),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,9),(2,5,8),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,5),(2,5,9),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,7),(1,3,4)); lvl=2; h,r-ind=1,1
[3,3]((1,3,7),(1,3,5),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
```

```
  [5,3]((1,2,4),(2,5,9),(3,7,14),(2,5,7),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,4),(3,7,14),(3,7,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(3,7,14),(3,7,13)); lvl=2; h,r-ind=1,1
    [4,3]((5,11,19),(3,7,12),(1,2,4),(3,7,13)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,9,16),(3,7,12),(3,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,16),(1,2,4),(3,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,19),(4,9,16),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,19),(4,9,16),(3,7,12)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,9),(3,7,12),(2,5,8),(3,7,13)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,21),(3,7,12),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(5,12,21),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,13),(2,5,9),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,13),(5,12,21),(3,7,12)); lvl=3; h,r-ind=1,1
    [5,3]((5,11,19),(3,7,12),(1,2,3),(2,5,8),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,11),(2,5,8),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,11),(2,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((6,14,23),(3,7,11),(7,16,26),(2,5,8)); lvl=3; h,r-ind=1,1
        [3,3]((9,21,34),(7,16,26),(3,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(9,21,34),(3,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,23),(2,5,8),(9,21,34)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,23),(9,21,34),(7,16,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,12),(6,14,23),(2,5,8)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,12),(4,9,15),(6,14,23),(7,16,26)); lvl=3; h,r-ind=1,1
        [3,3]((10,23,38),(7,16,26),(4,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(10,23,38),(4,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,23),(10,23,38),(7,16,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(6,14,23),(10,23,38)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,19),(3,7,12),(4,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,11),(7,16,26)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,15),(1,2,3),(7,16,26)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,19),(4,9,15),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((5,11,19),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
  [6,3]((1,3,7),(1,3,5),(3,7,18),(2,5,13),(2,5,9),(3,7,14)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,10),(3,7,14),(3,7,16),(2,5,11)); lvl=2; h,r-ind=1,1
      [4,3]((7,17,36),(2,5,11),(3,7,15),(3,7,16)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,15),(5,12,26),(3,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(5,12,26),(3,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,36),(3,7,15),(5,12,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(7,17,36),(5,12,26)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,10),(7,17,36),(3,7,14),(3,7,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,25),(3,7,15),(3,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(5,12,25),(3,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,25),(7,17,36),(3,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(5,12,25),(7,17,36)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(7,17,36),(2,5,11)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,18),(2,5,12),(3,7,16),(2,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,12),(2,5,11),(7,17,40)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,17),(3,7,16),(2,5,11),(7,17,40)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,16),(2,5,11),(5,12,28)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,40),(2,5,11),(5,12,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,17),(3,7,16),(5,12,28)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,40),(3,7,17),(5,12,28)); lvl=4; h,r-ind=1,1
      [4,3]((3,7,18),(3,7,17),(2,5,12),(7,17,40)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,17),(7,17,40),(5,12,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(7,17,40),(5,12,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,18),(2,5,12),(5,12,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,18),(3,7,17),(5,12,29)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,7),(1,3,6),(2,5,12),(2,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,12),(2,5,11),(3,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,11),(3,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,6),(3,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,12),(3,8,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,13),(3,7,18),(2,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(2,5,13),(2,5,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(1,3,6),(2,5,10),(2,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,10),(2,5,11),(3,8,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,11),(3,8,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,10),(3,8,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,3,5),(3,8,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(2,5,10),(3,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,9),(2,5,10)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,14),(1,3,7),(2,5,13)); lvl=1; h,r-ind=1,1
```

14.14 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,7,14)); lvl=0; h,r-ind=14,14
  [5,3]((1,3,6),(1,4,7),(1,4,4),(1,3,4),(2,7,7)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((1,4,4),(2,7,7),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,7),(2,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(2,7,10),(1,3,4),(2,7,8)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,4),(4,13,18),(2,7,9),(2,7,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,13,18),(3,10,13),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(3,10,13),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,8),(3,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(4,13,18),(3,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,4),(4,13,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,5),(4,13,18),(2,7,10),(2,7,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,9),(2,7,10),(3,10,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,7,10),(3,10,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,18),(2,7,9),(3,10,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,13,18),(3,10,14)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,10),(2,8,11),(1,4,4),(2,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,10),(1,4,5),(2,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(2,7,9),(1,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,8),(2,7,9),(1,4,4),(1,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((3,11,13),(1,4,5),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(3,11,13),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,9),(3,11,13),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(2,7,9),(3,11,13)); lvl=4; h,r-ind=1,1
    [5,3]((1,3,5),(1,3,6),(2,7,10),(1,4,7),(2,8,11)); lvl=2; h,r-ind=1,1
      [4,3]((4,14,21),(2,7,10),(1,4,6),(2,8,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,6),(2,8,11),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(2,8,11),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,21),(1,4,6),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(4,14,21),(3,11,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,5),(4,14,21),(3,10,17),(1,4,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,6),(2,7,11),(4,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,7,11),(4,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(3,10,17),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,17),(1,4,6),(2,7,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,6),(3,10,17),(1,4,7),(1,4,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,6),(1,4,7),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,4,7),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,17),(1,4,6),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(3,10,17),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,6),(3,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(4,14,21),(2,7,10)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(1,2,4),(1,3,4),(2,7,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(2,7,7),(2,5,7),(1,3,4)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,7),(2,6,7),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(2,6,7),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(1,3,3),(2,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(2,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(1,2,2),(1,2,3),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(2,5,6),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,7),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,2),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,1),(3,4,6),(1,2,2),(1,2,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,2),(2,3,4),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(2,3,4),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,6),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,6),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,1),(1,1,2),(3,4,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,2,3),(1,1,1),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(1,1,2),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(2,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,7,7)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,2,4),(1,3,6),(1,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,3,6),(2,7,14),(1,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,7),(1,4,4)); lvl=1; h,r-ind=3,3; optimized-h
```

14.15 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,9,14)); lvl=0; h,r-ind=14,98
  [3,3]((1,0,0),(1,3,3),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,3,3),(2,7,7),(0,1,0)); lvl=1; h,r-ind=1,1
```

```
[5,3]((1,5,7),(2,7,7),(1,4,6),(2,7,9),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,5),(1,4,6),(2,7,9)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,8),(2,8,9),(1,4,5),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,9),(3,11,13),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,9),(3,11,13),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,8),(2,8,9),(3,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,9),(2,7,8),(3,11,13)); lvl=3; h,r-ind=1,1
  [4,3]((2,7,7),(2,7,8),(2,8,9),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,12),(2,7,8),(2,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,12),(1,4,4),(2,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,7),(3,11,12),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,7),(3,11,12),(2,7,8)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,5,5),(2,8,9),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,9),(1,5,5),(2,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(2,9,9),(2,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,7,7),(1,4,4)); lvl=2; h,r-ind=1,1
  [4,3]((2,9,11),(2,9,12),(1,4,5),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,13,17),(1,4,6),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,11),(3,13,17),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(3,13,17),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,11),(2,9,12),(3,13,17)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,7),(2,9,12),(1,4,6)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,5),(2,8,9),(2,9,11),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,10),(2,8,9),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,11),(2,9,10),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,5),(2,9,10),(2,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,11),(1,5,5),(2,9,10)); lvl=3; h,r-ind=1,1
  [5,3]((1,5,7),(0,1,0),(1,5,5),(2,9,11),(2,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,5),(1,5,6),(2,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(1,5,6),(2,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,12),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,7),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,5,6)); lvl=3; h,r-ind=1,1
[3,3]((2,9,14),(1,5,7),(1,4,6)); lvl=1; h,r-ind=1,1
[4,3]((1,0,0),(1,3,3),(2,5,6),(2,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,3),(2,3,3),(2,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(5,11,13),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(5,11,13),(2,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(1,3,3),(2,5,6),(5,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,3,3),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,13),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(3,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,13),(1,2,2),(3,7,8)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,4),(2,3,3),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(5,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(2,4,5),(5,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(2,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,1),(2,3,4),(5,8,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,5),(1,1,1),(5,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(5,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
[5,3]((1,3,3),(2,7,7),(1,3,4),(2,7,9),(2,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((3,10,11),(2,7,7),(2,7,8)); lvl=2; h,r-ind=1,1
  [6,3]((5,16,18),(3,10,11),(6,19,22),(5,16,19),(3,10,12),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((4,13,15),(2,7,8),(3,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((5,16,18),(4,13,15),(3,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((5,16,18),(4,13,15),(6,19,22)); lvl=3; h,r-ind=1,1
    [3,3]((4,13,15),(2,7,8),(3,10,12)); lvl=3; h,r-ind=1,1
    [3,3]((4,13,15),(5,16,19),(3,10,12)); lvl=3; h,r-ind=1,1
    [3,3]((4,13,15),(6,19,22),(5,16,19)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,9),(3,10,12),(2,7,8)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,3),(5,16,18),(2,6,7),(6,19,22)); lvl=2; h,r-ind=1,1
    [3,3]((5,16,18),(6,19,22),(7,22,25)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,7),(6,19,22),(7,22,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(5,16,18),(7,22,25)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,7),(1,3,3),(7,22,25)); lvl=3; h,r-ind=1,1
  [4,3]((5,16,19),(2,7,9),(3,10,12),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,12),(2,7,9),(4,13,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,9),(4,13,16)); lvl=3; h,r-ind=1,1
    [3,3]((5,16,19),(3,10,12),(4,13,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(5,16,19),(4,13,16)); lvl=3; h,r-ind=1,1
  [4,3]((2,6,7),(6,19,22),(5,16,19),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((5,16,19),(6,19,22),(7,22,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,7),(6,19,22),(7,22,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,7),(7,22,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(5,16,19),(7,22,26)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((2,5,6),(2,6,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(5,16,18),(3,10,11),(2,7,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,16,18),(4,13,14),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,7),(4,13,14),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(4,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(5,16,18),(4,13,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,6),(2,6,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,6),(1,3,4),(2,7,9),(2,6,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,10),(2,7,9),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(2,7,10),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(2,6,9),(2,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,10),(2,7,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,14),(1,4,6),(2,6,9)); lvl=1; h,r-ind=1,1
  [5,3]((1,3,4),(2,6,9),(2,5,6),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((3,6,8),(5,11,15),(2,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,15),(1,2,3),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(1,2,3),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,8),(5,11,15),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,8),(2,3,4),(4,8,11)); lvl=3; h,r-ind=1,1
    [4,3]((5,11,15),(6,14,19),(2,5,7),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(6,14,19),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,15),(6,14,19),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,15),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(7,16,22)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(2,5,7),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,9),(2,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(6,14,19),(2,5,7),(5,12,16)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(6,14,19),(7,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,16),(6,14,19),(7,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(7,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,16),(1,3,4),(7,17,23)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,8),(2,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [6,3]((3,6,8),(5,11,15),(6,14,19),(3,7,9),(5,12,16),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,12),(6,14,19),(5,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,8),(4,9,12),(5,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,8),(2,4,5),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,16),(4,9,12),(6,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,16),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,9),(2,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(3,7,9),(5,12,16),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,16),(4,10,13),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(4,10,13),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,6),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,12,16),(4,10,13)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,14),(2,6,9),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,9,14),(1,2,3)); lvl=1; h,r-ind=1,1
```

14.16 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,11,14)); lvl=0; h,r-ind=14,98
  [5,3]((2,5,6),(1,2,2),(2,9,11),(1,4,5),(2,7,7)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,2),(1,3,3),(2,6,7),(2,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,8),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(2,7,8),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(1,2,2),(3,9,10)); lvl=3; h,r-ind=1,1
    [4,3]((7,27,32),(1,4,5),(2,6,7),(2,7,8)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,11,13),(1,4,5),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,11,13),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((7,27,32),(3,11,13),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(7,27,32),(3,11,13)); lvl=3; h,r-ind=1,1
    [4,3]((7,27,32),(1,4,5),(2,9,11),(4,16,19)); lvl=2; h,r-ind=1,1
      [3,3]((5,20,24),(2,9,11),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((7,27,32),(5,20,24),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,20,24),(4,16,19),(2,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((7,27,32),(5,20,24),(4,16,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(1,4,5),(2,6,7)); lvl=2; h,r-ind=1,1
    [5,3]((7,27,32),(4,16,19),(2,8,9),(1,3,3),(2,7,8)); lvl=2; h,r-ind=1,1
      [5,3]((3,12,14),(2,8,9),(5,19,22),(8,29,33),(1,3,3)); lvl=3; h,r-ind=1,1
        [3,3]((6,22,25),(10,37,42),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,17),(10,37,42),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(4,15,17),(1,3,3)); lvl=4; h,r-ind=1,1
        [4,3]((3,12,14),(9,34,39),(4,15,17),(10,37,42)); lvl=4; h,r-ind=1,1
          [3,3]((9,34,39),(10,37,42),(13,49,56)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,17),(10,37,42),(13,49,56)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((3,12,14),(4,15,17),(13,49,56)); lvl=5; h,r-ind=1,1
          [3,3]((3,12,14),(9,34,39),(13,49,56)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,9),(3,12,14),(4,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((8,29,33),(6,22,25),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,19,22),(8,29,33),(6,22,25)); lvl=4; h,r-ind=1,1
        [4,3]((5,19,22),(9,34,39),(6,22,25),(10,37,42)); lvl=4; h,r-ind=1,1
          [3,3]((9,34,39),(10,37,42),(15,56,64)); lvl=5; h,r-ind=1,1
          [3,3]((6,22,25),(10,37,42),(15,56,64)); lvl=5; h,r-ind=1,1
          [3,3]((5,19,22),(9,34,39),(15,56,64)); lvl=5; h,r-ind=1,1
          [3,3]((6,22,25),(5,19,22),(15,56,64)); lvl=5; h,r-ind=1,1
        [3,3]((3,12,14),(5,19,22),(9,34,39)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,8),(8,29,33),(1,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,8),(6,23,27),(5,19,22),(8,29,33)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,23,27),(7,26,30),(5,19,22)); lvl=4; h,r-ind=1,1
        [3,3]((8,29,33),(7,26,30),(5,19,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(8,29,33),(7,26,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(6,23,27),(7,26,30)); lvl=4; h,r-ind=1,1
      [3,3]((7,27,32),(2,7,8),(6,23,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,16,19),(7,27,32),(6,23,27)); lvl=3; h,r-ind=1,1
      [4,3]((4,16,19),(3,12,14),(6,23,27),(5,19,22)); lvl=3; h,r-ind=1,1
        [3,3]((3,12,14),(5,19,22),(9,35,41)); lvl=4; h,r-ind=1,1
        [3,3]((6,23,27),(5,19,22),(9,35,41)); lvl=4; h,r-ind=1,1
        [3,3]((4,16,19),(3,12,14),(9,35,41)); lvl=4; h,r-ind=1,1
        [3,3]((6,23,27),(4,16,19),(9,35,41)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,11),(4,16,19),(2,8,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,7,7),(2,8,9),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(1,2,2),(2,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,7,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(2,5,6),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((2,11,14),(1,0,0),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,5,6),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(1,6,7),(2,9,11),(2,7,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,4),(1,5,6),(1,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,6,7),(1,5,6),(1,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,6),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,6,6),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,7),(1,6,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(1,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,4),(2,8,9),(2,9,11),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,9),(2,9,11),(3,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,9,11),(3,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,8,9),(3,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,4),(3,13,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,7),(1,4,4),(2,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,7),(1,4,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,11,14),(1,6,7),(2,9,11)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,11,14),(2,9,11),(1,4,5)); lvl=1; h,r-ind=1,1
```

14.17 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,13,14)); lvl=0; h,r-ind=14,98
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,13,14),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,7),(0,1,0),(1,1,1)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((2,13,14),(2,7,7),(1,1,1)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,7,7),(2,7,7),(0,1,0)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((2,13,14),(1,7,7),(2,7,7)); lvl=1; h,r-ind=7,7; optimized-h
```

14.18 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,3,14)); lvl=0; h,r-ind=14,196
  [3,3]((3,3,13),(2,2,9),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,14),(2,2,9),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,4),(3,3,13),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,5),(1,1,4),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(2,2,5),(1,0,0)); lvl=1; h,r-ind=5,25; optimized-h
  [3,3]((0,1,0),(2,2,5),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,1,4),(3,3,13)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,13),(2,2,9)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,14),(0,1,0),(2,2,9)); lvl=1; h,r-ind=1,1
```

14.19 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,4,14)); lvl=0; h,r-ind=14,98
  [6,3]((1,2,4),(3,4,11),(2,3,7),(3,5,13),(5,7,21),(3,4,12)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,8),(5,7,21),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(3,4,11),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(2,3,8),(3,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,7),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(5,7,21),(4,6,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(3,5,13),(4,6,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,8),(3,5,13)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,13),(7,9,28),(5,7,21),(3,4,12)); lvl=1; h,r-ind=1,1
    [3,3]((6,8,25),(7,9,28),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,21),(6,8,25),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,13),(5,7,21),(6,8,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,13),(6,8,25),(7,9,28)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,3),(3,4,11),(7,9,28),(3,4,12)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,11),(4,5,15),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,28),(4,5,15),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(7,9,28),(4,5,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,11),(4,5,15)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(2,2,7)); lvl=1; h,r-ind=1,1
  [5,3]((3,4,14),(1,1,3),(2,2,7),(3,4,13),(7,9,28)); lvl=1; h,r-ind=1,1
    [4,3]((5,6,20),(8,10,33),(1,1,3),(4,5,16)); lvl=2; h,r-ind=1,1
      [3,3]((9,11,36),(4,5,16),(8,10,33)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,20),(9,11,36),(8,10,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(5,6,20),(9,11,36)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(9,11,36),(4,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,28),(1,1,3),(4,5,16)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,13),(7,9,30),(8,10,33),(4,5,16)); lvl=2; h,r-ind=1,1
      [3,3]((11,14,46),(8,10,33),(7,9,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(11,14,46),(7,9,30)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,16),(11,14,46),(8,10,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(4,5,16),(11,14,46)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,28),(3,4,13),(4,5,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,14),(3,4,13),(7,9,30)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,14),(5,6,20),(7,9,30),(8,10,33)); lvl=2; h,r-ind=1,1
      [4,3]((4,5,17),(5,6,20),(8,10,33),(19,24,80)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((12,15,50),(5,6,20),(8,10,33)); lvl=4; h,r-ind=1,1
        [3,3]((19,24,80),(12,15,50),(8,10,33)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,17),(19,24,80),(12,15,50)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,17),(12,15,50),(5,6,20)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,30),(8,10,33),(19,24,80)); lvl=3; h,r-ind=1,1
      [4,3]((7,9,30),(3,4,14),(4,5,17),(19,24,80)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,14),(11,14,47),(4,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((19,24,80),(11,14,47),(4,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,30),(19,24,80),(11,14,47)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,30),(3,4,14),(11,14,47)); lvl=4; h,r-ind=1,1
    [3,3]((2,2,7),(5,6,20),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,14),(2,2,7),(5,6,20)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((1,1,3),(2,3,5),(1,1,2),(3,4,11),(2,3,7)); lvl=1; h,r-ind=1,1
    [5,3]((3,4,9),(5,6,14),(1,1,2),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,6),(2,3,5),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,5),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,19),(1,1,2),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,19),(4,5,11),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,14),(4,5,11),(1,1,2)); lvl=3; h,r-ind=1,1
      [4,3]((6,8,17),(7,9,19),(2,3,6),(3,4,8)); lvl=3; h,r-ind=1,1
        [3,3]((9,12,25),(7,9,19),(3,4,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,6),(9,12,25),(3,4,8)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,17),(2,3,6),(9,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,17),(9,12,25),(7,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(6,8,17),(2,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,9),(6,8,17),(7,9,19),(4,5,11)); lvl=3; h,r-ind=1,1
        [3,3]((10,13,28),(7,9,19),(6,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(10,13,28),(6,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,11),(3,4,9),(10,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,11),(10,13,28),(7,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(5,6,14),(4,5,11)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,9),(2,3,7),(3,4,10),(2,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,16),(2,3,7),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(5,7,16),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,4,9),(5,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(5,7,16),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,11),(2,3,7),(3,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,11),(3,4,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(3,4,9),(5,6,14),(3,4,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,9),(4,5,12),(5,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,12),(5,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(3,4,9),(4,5,12)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,1,3),(3,4,10),(4,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(5,6,14),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,3,5),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,3),(1,1,1),(2,3,4),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(1,1,2),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(2,3,4),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,4),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,5),(2,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(2,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(3,5,13)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,5),(1,2,4),(2,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,7),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,14),(3,4,13),(3,5,13),(5,7,21)); lvl=1; h,r-ind=1,1
    [4,3]((7,10,30),(12,17,52),(3,4,13),(5,7,21)); lvl=2; h,r-ind=1,1
      [3,3]((12,17,52),(3,4,13),(10,14,43)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,21),(3,4,13),(10,14,43)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,30),(12,17,52),(10,14,43)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,30),(5,7,21),(10,14,43)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,17),(7,10,30),(5,7,21)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,9),(4,6,17),(7,10,30),(12,17,52)); lvl=2; h,r-ind=1,1
      [3,3]((9,13,39),(7,10,30),(4,6,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(9,13,39),(4,6,17)); lvl=3; h,r-ind=1,1
      [3,3]((9,13,39),(12,17,52),(7,10,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(9,13,39),(12,17,52)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(3,5,13),(4,6,17)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,14),(2,3,9),(12,17,52),(3,4,13)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,3,9),(5,7,22),(12,17,52)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(5,7,22),(12,17,52)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,14),(3,4,13),(5,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,14),(2,3,9),(5,7,22)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,14),(3,5,13)); lvl=1; h,r-ind=3,3; optimized-h
```

14.20 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,5,14)); lvl=0; h,r-ind=14,196
  [6,3]((3,5,12),(3,5,10),(2,3,6),(5,8,20),(3,4,10),(4,5,12)); lvl=1; h,r-ind=2,1
    [3,3]((2,3,7),(3,4,9),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,10),(2,3,7),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(3,5,10),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,12),(3,5,11),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,12),(5,8,20),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(4,5,12),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,10),(2,3,7),(4,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,10),(4,6,15),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,20),(4,6,15),(2,3,7)); lvl=2; h,r-ind=1,1
  [5,3]((5,5,13),(9,11,29),(2,2,5),(3,4,10),(4,5,12)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,15),(4,5,12),(3,4,10)); lvl=2; h,r-ind=1,1
    [4,3]((6,7,18),(5,6,15),(4,5,13),(3,4,10)); lvl=2; h,r-ind=1,1
      [3,3]((9,11,28),(3,4,10),(5,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,18),(9,11,28),(5,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,13),(9,11,28),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,18),(4,5,13),(9,11,28)); lvl=3; h,r-ind=1,1
    [5,3]((7,8,21),(11,12,31),(19,21,54),(6,7,18),(4,5,13)); lvl=2; h,r-ind=1,1
      [4,3]((9,10,26),(15,17,44),(17,19,49),(11,12,31)); lvl=3; h,r-ind=1,1
        [3,3]((26,29,75),(17,19,49),(15,17,44)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,26),(26,29,75),(15,17,44)); lvl=4; h,r-ind=1,1
        [3,3]((11,12,31),(26,29,75),(17,19,49)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,26),(11,12,31),(26,29,75)); lvl=4; h,r-ind=1,1
      [3,3]((19,21,54),(17,19,49),(11,12,31)); lvl=3; h,r-ind=1,1
      [4,3]((15,17,44),(17,19,49),(6,7,18),(25,29,75)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((17,19,49),(6,7,18),(21,24,62)); lvl=4; h,r-ind=1,1
        [3,3]((25,29,75),(6,7,18),(21,24,62)); lvl=4; h,r-ind=1,1
        [3,3]((15,17,44),(25,29,75),(21,24,62)); lvl=4; h,r-ind=1,1
        [3,3]((15,17,44),(17,19,49),(21,24,62)); lvl=4; h,r-ind=1,1
      [3,3]((19,21,54),(17,19,49),(6,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,13),(6,7,18),(25,29,75)); lvl=3; h,r-ind=1,1
      [5,3]((7,8,21),(9,10,26),(4,5,13),(15,17,44),(25,29,75)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((25,29,75),(19,22,57),(15,17,44)); lvl=4; h,r-ind=1,1
      [4,3]((28,32,83),(32,37,96),(19,22,57),(15,17,44)); lvl=4; h,r-ind=1,1
        [3,3]((19,22,57),(32,37,96),(47,54,140)); lvl=5; h,r-ind=1,1
        [3,3]((28,32,83),(32,37,96),(47,54,140)); lvl=5; h,r-ind=1,1
        [3,3]((15,17,44),(28,32,83),(47,54,140)); lvl=5; h,r-ind=1,1
        [3,3]((15,17,44),(19,22,57),(47,54,140)); lvl=5; h,r-ind=1,1
      [3,3]((9,10,26),(28,32,83),(15,17,44)); lvl=4; h,r-ind=1,1
      [4,3]((13,15,39),(9,10,26),(28,32,83),(32,37,96)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,26),(28,32,83),(41,47,122)); lvl=5; h,r-ind=1,1
        [3,3]((32,37,96),(28,32,83),(41,47,122)); lvl=5; h,r-ind=1,1
        [3,3]((13,15,39),(32,37,96),(41,47,122)); lvl=5; h,r-ind=1,1
        [3,3]((13,15,39),(9,10,26),(41,47,122)); lvl=5; h,r-ind=1,1
      [3,3]((7,8,21),(13,15,39),(9,10,26)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,13),(25,29,75),(19,22,57)); lvl=4; h,r-ind=1,1
      [3,3]((32,37,96),(4,5,13),(19,22,57)); lvl=4; h,r-ind=1,1
      [3,3]((13,15,39),(32,37,96),(4,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,21),(13,15,39),(4,5,13)); lvl=4; h,r-ind=1,1
  [3,3]((7,8,21),(4,5,13),(9,11,29)); lvl=2; h,r-ind=1,1
  [3,3]((5,5,13),(7,8,21),(11,12,31)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((5,6,15),(2,2,5),(4,5,12)); lvl=2; h,r-ind=1,1
  [4,3]((19,21,54),(6,7,18),(5,6,15),(2,2,5)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((8,9,23),(5,6,15),(6,7,18)); lvl=3; h,r-ind=1,1
    [3,3]((19,21,54),(8,9,23),(6,7,18)); lvl=3; h,r-ind=1,1
    [3,3]((8,9,23),(2,2,5),(5,6,15)); lvl=3; h,r-ind=1,1
    [3,3]((19,21,54),(8,9,23),(2,2,5)); lvl=3; h,r-ind=1,1
  [4,3]((5,5,13),(11,12,31),(19,21,54),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((13,14,36),(11,12,31),(19,21,54)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,5),(13,14,36),(19,21,54)); lvl=3; h,r-ind=1,1
    [3,3]((5,5,13),(13,14,36),(11,12,31)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,5),(5,5,13),(13,14,36)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(5,5,13),(2,2,5)); lvl=1; h,r-ind=1,1
[4,3]((3,5,14),(1,0,0),(5,5,13),(9,11,29)); lvl=1; h,r-ind=1,1
  [4,3]((8,10,27),(11,13,35),(6,7,19),(3,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((14,17,46),(11,13,35),(6,7,19)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,11),(14,17,46),(6,7,19)); lvl=3; h,r-ind=1,1
    [3,3]((8,10,27),(3,4,11),(14,17,46)); lvl=3; h,r-ind=1,1
    [3,3]((8,10,27),(14,17,46),(11,13,35)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(6,7,19),(3,4,11)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,14),(1,0,0),(3,4,11)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,14),(12,16,43),(8,10,27),(3,4,11)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,11),(21,28,76),(8,10,27),(13,17,46)); lvl=3; h,r-ind=1,1
      [3,3]((16,21,57),(21,28,76),(13,17,46)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,27),(16,21,57),(13,17,46)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,11),(8,10,27),(16,21,57)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,11),(16,21,57),(21,28,76)); lvl=4; h,r-ind=1,1
    [3,3]((10,13,35),(8,10,27),(13,17,46)); lvl=3; h,r-ind=1,1
    [4,3]((5,7,19),(10,13,35),(21,28,76),(13,17,46)); lvl=3; h,r-ind=1,1
      [3,3]((18,24,65),(10,13,35),(13,17,46)); lvl=4; h,r-ind=1,1
      [3,3]((21,28,76),(18,24,65),(13,17,46)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,19),(21,28,76),(18,24,65)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,19),(18,24,65),(10,13,35)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,11),(3,5,14),(5,7,19),(21,28,76)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((8,11,30),(5,7,19),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,11),(8,11,30),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((21,28,76),(8,11,30),(5,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,11),(21,28,76),(8,11,30)); lvl=4; h,r-ind=1,1
    [3,3]((5,7,19),(10,13,35),(12,16,43)); lvl=3; h,r-ind=1,1
  [6,3]((9,11,29),(12,16,43),(7,8,21),(8,9,24),(8,10,27),(11,13,35)); lvl=2; h,r-ind=1,1
    [4,3]((7,9,24),(12,16,43),(10,13,35),(5,6,16)); lvl=3; h,r-ind=1,1
      [3,3]((12,16,43),(10,13,35),(17,22,59)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,16),(10,13,35),(17,22,59)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,24),(12,16,43),(17,22,59)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,16),(7,9,24),(17,22,59)); lvl=4; h,r-ind=1,1
    [3,3]((8,10,27),(10,13,35),(5,6,16)); lvl=3; h,r-ind=1,1
    [3,3]((8,10,27),(11,13,35),(5,6,16)); lvl=3; h,r-ind=1,1
    [3,3]((8,9,24),(11,13,35),(5,6,16)); lvl=3; h,r-ind=1,1
    [3,3]((7,8,21),(8,9,24),(5,6,16)); lvl=3; h,r-ind=1,1
    [3,3]((9,11,29),(7,9,24),(5,6,16)); lvl=3; h,r-ind=1,1
    [3,3]((9,11,29),(7,8,21),(5,6,16)); lvl=3; h,r-ind=1,1
  [4,3]((3,3,8),(5,5,13),(7,8,21),(8,9,24)); lvl=2; h,r-ind=1,1
    [3,3]((5,5,13),(7,8,21),(10,11,29)); lvl=3; h,r-ind=1,1
    [3,3]((8,9,24),(7,8,21),(10,11,29)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,8),(5,5,13),(10,11,29)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,8),(8,9,24),(10,11,29)); lvl=3; h,r-ind=1,1
  [4,3]((3,3,8),(8,9,24),(11,13,35),(6,7,19)); lvl=2; h,r-ind=1,1
    [3,3]((8,9,24),(11,13,35),(14,16,43)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,19),(11,13,35),(14,16,43)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,8),(8,9,24),(14,16,43)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,19),(3,3,8),(14,16,43)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,8),(6,7,19)); lvl=2; h,r-ind=1,1
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    [3,3]((1,0,0),(3,3,8),(5,5,13)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(2,2,5),(4,6,9),(2,3,6),(4,5,12)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,9),(1,1,2),(4,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,5),(1,1,2),(4,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,5),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(3,4,9),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,6),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,9),(2,3,5),(4,6,9),(1,1,2)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,6),(6,8,13),(2,3,5),(4,6,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,11),(6,8,13),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(5,7,11),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(4,6,9),(5,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(5,7,11),(6,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,6),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(6,8,13),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(5,6,9),(1,1,2)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((7,12,31),(3,5,13),(9,16,39),(3,5,12),(5,8,20)); lvl=1; h,r-ind=1,1
    [4,3]((3,5,13),(6,10,25),(7,12,30),(24,41,104)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((10,17,43),(7,12,30),(6,10,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(10,17,43),(6,10,25)); lvl=3; h,r-ind=1,1
      [3,3]((24,41,104),(10,17,43),(7,12,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(24,41,104),(10,17,43)); lvl=3; h,r-ind=1,1
    [5,3]((14,24,61),(8,14,35),(4,7,17),(7,12,30),(24,41,104)); lvl=2; h,r-ind=1,1
      [5,3]((4,7,17),(29,50,125),(8,14,35),(11,19,48),(18,31,78)); lvl=3; h,r-ind=1,1
        [3,3]((33,57,143),(11,19,48),(18,31,78)); lvl=4; h,r-ind=1,1
        [4,3]((37,64,160),(22,38,95),(33,57,143),(18,31,78)); lvl=4; h,r-ind=1,1
          [3,3]((22,38,95),(18,31,78),(55,95,238)); lvl=5; h,r-ind=1,1
          [3,3]((33,57,143),(18,31,78),(55,95,238)); lvl=5; h,r-ind=1,1
          [3,3]((37,64,160),(22,38,95),(55,95,238)); lvl=5; h,r-ind=1,1
          [3,3]((33,57,143),(37,64,160),(55,95,238)); lvl=5; h,r-ind=1,1
        [3,3]((29,50,125),(22,38,95),(18,31,78)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,17),(29,50,125),(22,38,95)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,17),(37,64,160),(22,38,95)); lvl=4; h,r-ind=1,1
        [4,3]((15,26,65),(37,64,160),(33,57,143),(11,19,48)); lvl=4; h,r-ind=1,1
          [3,3]((48,83,208),(33,57,143),(37,64,160)); lvl=5; h,r-ind=1,1
          [3,3]((15,26,65),(48,83,208),(37,64,160)); lvl=5; h,r-ind=1,1
          [3,3]((11,19,48),(48,83,208),(33,57,143)); lvl=5; h,r-ind=1,1
          [3,3]((15,26,65),(11,19,48),(48,83,208)); lvl=5; h,r-ind=1,1
        [3,3]((15,26,65),(8,14,35),(11,19,48)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,17),(15,26,65),(8,14,35)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,17),(15,26,65),(37,64,160)); lvl=4; h,r-ind=1,1
      [4,3]((14,24,61),(21,36,91),(11,19,48),(18,31,78)); lvl=3; h,r-ind=1,1
        [3,3]((18,31,78),(21,36,91),(32,55,139)); lvl=4; h,r-ind=1,1
        [3,3]((14,24,61),(21,36,91),(32,55,139)); lvl=4; h,r-ind=1,1
        [3,3]((11,19,48),(14,24,61),(32,55,139)); lvl=4; h,r-ind=1,1
        [3,3]((11,19,48),(18,31,78),(32,55,139)); lvl=4; h,r-ind=1,1
      [3,3]((14,24,61),(21,36,91),(24,41,104)); lvl=3; h,r-ind=1,1
      [4,3]((21,36,91),(7,12,30),(29,50,125),(18,31,78)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((25,43,108),(7,12,30),(29,50,125)); lvl=4; h,r-ind=1,1
        [3,3]((25,43,108),(18,31,78),(29,50,125)); lvl=4; h,r-ind=1,1
        [3,3]((21,36,91),(25,43,108),(18,31,78)); lvl=4; h,r-ind=1,1
        [3,3]((21,36,91),(25,43,108),(7,12,30)); lvl=4; h,r-ind=1,1
      [3,3]((21,36,91),(24,41,104),(7,12,30)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,30),(4,7,17),(29,50,125)); lvl=3; h,r-ind=1,1
    [3,3]((7,12,31),(14,24,61),(8,14,35)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((9,16,39),(8,14,35),(4,7,17)); lvl=2; h,r-ind=1,1
    [4,3]((7,12,31),(14,24,61),(3,5,13),(24,41,104)); lvl=2; h,r-ind=1,1
      [3,3]((17,29,74),(24,41,104),(14,24,61)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,31),(17,29,74),(14,24,61)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(7,12,31),(17,29,74)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(17,29,74),(24,41,104)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,17),(3,5,12),(6,10,25),(7,12,30)); lvl=2; h,r-ind=1,1
      [3,3]((10,17,42),(6,10,25),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,17),(10,17,42),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,30),(10,17,42),(6,10,25)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,17),(7,12,30),(10,17,42)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,13),(6,10,25),(5,8,20)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,12),(6,10,25),(5,8,20)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(3,5,14),(7,12,31),(9,16,39)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,14),(4,7,18),(7,12,31)); lvl=2; h,r-ind=1,1
    [4,3]((8,14,35),(9,16,40),(4,7,18),(7,12,31)); lvl=2; h,r-ind=1,1
      [3,3]((12,21,53),(4,7,18),(9,16,40)); lvl=3; h,r-ind=1,1
      [3,3]((8,14,35),(12,21,53),(9,16,40)); lvl=3; h,r-ind=1,1
      [3,3]((12,21,53),(7,12,31),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((8,14,35),(12,21,53),(7,12,31)); lvl=3; h,r-ind=1,1
    [6,3]((9,17,39),(7,13,31),(11,20,49),(9,16,39),(8,14,35),(9,16,40)); lvl=2; h,r-ind=1,1
      [3,3]((5,9,22),(9,16,40),(11,20,49)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,22),(7,13,31),(11,20,49)); lvl=3; h,r-ind=1,1
      [3,3]((8,15,35),(5,9,22),(7,13,31)); lvl=3; h,r-ind=1,1
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      [4,3]((6,11,26),(9,17,39),(8,15,35),(5,9,22)); lvl=3; h,r-ind=1,1
        [3,3]((14,26,61),(8,15,35),(9,17,39)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,26),(14,26,61),(9,17,39)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,22),(14,26,61),(8,15,35)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,26),(5,9,22),(14,26,61)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,22),(9,16,40),(8,14,35)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,22),(9,16,39),(8,14,35)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,26),(5,9,22),(9,16,39)); lvl=3; h,r-ind=1,1
    [4,3]((11,20,49),(6,11,27),(9,16,40),(4,7,18)); lvl=2; h,r-ind=1,1
      [3,3]((6,11,27),(4,7,18),(15,27,67)); lvl=3; h,r-ind=1,1
      [3,3]((9,16,40),(4,7,18),(15,27,67)); lvl=3; h,r-ind=1,1
      [3,3]((11,20,49),(9,16,40),(15,27,67)); lvl=3; h,r-ind=1,1
      [3,3]((11,20,49),(6,11,27),(15,27,67)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,9),(7,13,31),(11,20,49),(6,11,27)); lvl=2; h,r-ind=1,1
      [3,3]((13,24,58),(11,20,49),(7,13,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(13,24,58),(7,13,31)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,27),(13,24,58),(11,20,49)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(6,11,27),(13,24,58)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(9,17,39),(2,4,9),(7,13,31)); lvl=2; h,r-ind=1,1
      [3,3]((10,19,44),(8,15,35),(7,13,31)); lvl=3; h,r-ind=1,1
      [4,3]((2,4,9),(10,19,44),(15,29,66),(7,13,31)); lvl=3; h,r-ind=1,1
        [3,3]((15,29,66),(10,19,44),(12,23,53)); lvl=4; h,r-ind=1,1
        [3,3]((7,13,31),(10,19,44),(12,23,53)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,9),(7,13,31),(12,23,53)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,9),(15,29,66),(12,23,53)); lvl=4; h,r-ind=1,1
      [4,3]((3,6,13),(0,1,0),(2,4,9),(15,29,66)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((5,10,22),(0,1,0),(2,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((15,29,66),(5,10,22),(2,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,13),(15,29,66),(5,10,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,13),(5,10,22),(0,1,0)); lvl=4; h,r-ind=1,1
      [4,3]((3,6,13),(10,19,44),(15,29,66),(8,15,35)); lvl=3; h,r-ind=1,1
        [3,3]((13,25,57),(15,29,66),(10,19,44)); lvl=4; h,r-ind=1,1
        [3,3]((8,15,35),(13,25,57),(10,19,44)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,13),(8,15,35),(13,25,57)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,13),(13,25,57),(15,29,66)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,13),(9,17,39),(8,15,35)); lvl=3; h,r-ind=1,1
    [3,3]((6,11,27),(3,5,14),(4,7,18)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(6,11,27),(3,5,14)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,9),(3,5,14)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,14),(7,12,31),(3,5,13)); lvl=1; h,r-ind=1,1
  [5,3]((4,6,9),(2,4,5),(3,5,10),(1,2,3),(2,3,6)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(2,4,5),(5,9,13),(9,16,24)); lvl=2; h,r-ind=1,1
      [3,3]((6,11,16),(2,4,5),(5,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((9,16,24),(6,11,16),(5,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(9,16,24),(6,11,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(6,11,16),(2,4,5)); lvl=3; h,r-ind=1,1
    [5,3]((2,3,5),(3,5,7),(3,5,8),(5,9,13),(9,16,24)); lvl=2; h,r-ind=1,1
      [4,3]((8,14,21),(7,12,18),(4,7,10),(5,9,13)); lvl=3; h,r-ind=1,1
        [3,3]((12,21,31),(4,7,10),(7,12,18)); lvl=4; h,r-ind=1,1
        [3,3]((8,14,21),(12,21,31),(7,12,18)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,13),(12,21,31),(4,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((8,14,21),(5,9,13),(12,21,31)); lvl=4; h,r-ind=1,1
      [3,3]((8,14,21),(9,16,24),(5,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,8),(8,14,21),(9,16,24)); lvl=3; h,r-ind=1,1
      [5,3]((3,5,7),(2,3,5),(12,20,31),(7,12,18),(4,7,10)); lvl=3; h,r-ind=1,1
        [4,3]((9,15,23),(13,22,33),(15,25,38),(7,12,18)); lvl=4; h,r-ind=1,1
          [3,3]((22,37,56),(13,22,33),(15,25,38)); lvl=5; h,r-ind=1,1
          [3,3]((9,15,23),(22,37,56),(15,25,38)); lvl=5; h,r-ind=1,1
          [3,3]((22,37,56),(7,12,18),(13,22,33)); lvl=5; h,r-ind=1,1
          [3,3]((9,15,23),(22,37,56),(7,12,18)); lvl=5; h,r-ind=1,1
        [3,3]((9,15,23),(12,20,31),(7,12,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(9,15,23),(12,20,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(9,15,23),(15,25,38)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,10),(13,22,33),(7,12,18)); lvl=4; h,r-ind=1,1
        [4,3]((6,10,15),(4,7,10),(13,22,33),(15,25,38)); lvl=4; h,r-ind=1,1
          [3,3]((19,32,48),(13,22,33),(4,7,10)); lvl=5; h,r-ind=1,1
          [3,3]((6,10,15),(19,32,48),(4,7,10)); lvl=5; h,r-ind=1,1
          [3,3]((15,25,38),(19,32,48),(13,22,33)); lvl=5; h,r-ind=1,1
          [3,3]((6,10,15),(15,25,38),(19,32,48)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,5),(6,10,15),(15,25,38)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,7),(6,10,15),(4,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(3,5,7),(6,10,15)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,8),(12,20,31),(8,14,21),(7,12,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,12,18),(10,17,26),(12,20,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,8),(10,17,26),(12,20,31)); lvl=4; h,r-ind=1,1
        [3,3]((8,14,21),(7,12,18),(10,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,8),(8,14,21),(10,17,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(3,5,8),(12,20,31)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(3,5,7),(4,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,9),(3,5,8),(1,2,3),(9,16,24)); lvl=2; h,r-ind=1,3; alert-r-inc
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      [3,3]((3,5,8),(9,16,24),(4,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(9,16,24),(4,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(3,5,8),(4,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,9),(4,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,9),(3,5,10),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,9),(2,3,6),(3,5,10)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,5),(3,5,9),(3,5,8),(2,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,14),(3,5,9),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,8,14),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(5,8,14),(3,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(2,3,6),(5,8,14)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,7),(2,4,5),(5,9,13)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((0,1,0),(1,0,0),(4,6,9),(2,4,5)); lvl=1; h,r-ind=1,1
    [6,3]((3,5,7),(3,5,6),(3,4,5),(4,6,7),(5,6,9),(4,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((4,6,7),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(3,5,7),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(4,6,9),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(4,6,7),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(4,5,7),(2,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,7),(5,6,9),(3,4,6),(2,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((7,9,13),(3,4,6),(5,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(7,9,13),(5,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(4,5,7),(7,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(7,9,13),(3,4,6)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,5),(1,1,1),(1,0,0),(5,6,9)); lvl=2; h,r-ind=1,1
      [4,3]((2,2,3),(8,9,12),(1,1,1),(1,0,0)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,3,4),(1,1,1),(8,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,3,4),(8,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,4),(1,0,0),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,3,4),(1,0,0)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,5),(8,9,12),(5,6,8),(1,1,1)); lvl=3; h,r-ind=1,1
        [3,3]((6,7,9),(8,9,12),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(6,7,9),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,9),(1,1,1),(8,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(6,7,9),(1,1,1)); lvl=4; h,r-ind=1,1
      [4,3]((4,5,7),(2,2,3),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
        [3,3]((2,2,3),(8,9,12),(7,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,8),(8,9,12),(7,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(5,6,8),(7,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(2,2,3),(7,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,9),(4,5,7),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(4,5,7),(5,6,8)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,3),(3,4,5),(4,6,7),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(4,6,7),(5,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(4,6,7),(5,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(5,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(5,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(3,5,6),(2,3,3),(4,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,3),(4,6,7),(5,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(4,6,7),(5,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,5,6),(5,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(5,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(1,2,2),(3,5,7),(3,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,9),(3,5,7),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,7,9),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(4,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,9),(3,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=1; h,r-ind=1,1
  [5,3]((0,1,0),(9,16,39),(3,5,12),(3,5,10),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,4),(9,16,39),(9,17,39),(4,7,17)); lvl=2; h,r-ind=1,1
      [4,3]((4,7,17),(6,11,26),(9,16,39),(11,20,47)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,16,39),(10,18,43),(6,11,26)); lvl=4; h,r-ind=1,1
        [3,3]((11,20,47),(10,18,43),(6,11,26)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,17),(11,20,47),(10,18,43)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,17),(9,16,39),(10,18,43)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(4,7,17),(11,20,47)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(6,11,26),(11,20,47)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(6,11,26),(9,17,39)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,12),(4,7,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,12),(3,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,11),(3,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(3,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,4),(9,17,39)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((3,5,14),(3,5,13),(9,11,29),(5,8,20),(3,4,10)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((5,8,20),(4,6,15),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,10),(4,6,15),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,10),(4,5,13),(2,3,8)); lvl=2; h,r-ind=1,1
    [4,3]((9,11,29),(12,16,43),(4,5,13),(2,3,8)); lvl=2; h,r-ind=1,1
      [3,3]((7,9,24),(12,16,43),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((13,17,45),(7,9,24),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,13),(13,17,45),(2,3,8)); lvl=3; h,r-ind=1,1
      [4,3]((9,11,29),(4,5,13),(13,17,45),(7,9,24)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,5,13),(11,14,37),(13,17,45)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,24),(11,14,37),(13,17,45)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,29),(7,9,24),(11,14,37)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,29),(4,5,13),(11,14,37)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,14),(12,16,43),(2,3,8)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,5,13),(5,8,20),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,14),(3,5,13),(2,3,8)); lvl=2; h,r-ind=1,1
```

14.21 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,6,14)); lvl=0; h,r-ind=14,98
  [4,3]((4,7,15),(2,3,6),(1,1,2),(3,5,11)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,6),(1,1,2),(5,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(1,1,2),(5,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,15),(3,5,11),(5,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,15),(2,3,6),(5,8,17)); lvl=2; h,r-ind=1,1
  [4,3]((2,4,9),(4,7,15),(3,6,13),(3,5,11)); lvl=1; h,r-ind=1,1
    [3,3]((6,11,24),(3,6,13),(4,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(6,11,24),(4,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(3,5,11),(6,11,24)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(6,11,24),(3,6,13)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,9),(3,6,13)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,14),(0,1,0),(2,4,9)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,3),(4,7,15),(2,3,6),(3,6,13)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,6),(4,7,15),(7,12,25)); lvl=2; h,r-ind=1,1
    [4,3]((3,6,13),(1,2,4),(4,7,15),(7,12,25)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,4),(7,12,25),(5,9,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,15),(7,12,25),(5,9,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,13),(4,7,15),(5,9,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,13),(1,2,4),(5,9,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,6),(7,12,25)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(2,3,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(3,6,13)); lvl=1; h,r-ind=4,4; optimized-h
  [4,3]((1,0,0),(2,3,7),(1,1,2),(3,5,11)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,9),(2,3,7),(3,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,9),(1,1,2),(3,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,4,9),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,4,9),(2,3,7)); lvl=2; h,r-ind=1,1
  [4,3]((3,6,14),(2,4,9),(2,3,7),(3,5,11)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,9),(3,5,11),(4,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,5,11),(4,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,14),(2,4,9),(4,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,6,14),(4,7,16)); lvl=2; h,r-ind=1,1
  [5,3]((2,4,5),(1,2,3),(2,3,6),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((5,7,11),(2,3,5),(6,9,14),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((6,9,14),(7,10,16),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(7,10,16),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,7,11),(7,10,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,5),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(3,4,6),(5,7,11),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,8),(5,7,11),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(4,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,8),(5,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(2,2,3),(3,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,3,5),(6,9,14),(5,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(1,2,3),(7,11,17)); lvl=3; h,r-ind=1,1
    [6,3]((3,5,7),(2,3,4),(3,4,6),(5,7,11),(6,9,14),(5,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,6,9),(5,7,11),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,7),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(5,7,11),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(4,6,9),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(5,8,12),(4,6,9)); lvl=3; h,r-ind=1,1
```

```
    [4,3]((1,2,3),(2,4,5),(3,5,7),(5,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,10),(2,4,5),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(3,5,7),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,4,5),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,5),(2,3,4),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(2,3,4),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=1; h,r-ind=1,1
```

14.22 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,7,14)); lvl=0; h,r-ind=14,28
  [4,3]((1,0,0),(2,3,6),(2,5,5),(1,2,3)); lvl=1; h,r-ind=1,1
    [5,3]((2,5,5),(1,2,2),(1,2,3),(6,10,15),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,10),(6,10,15),(3,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((5,9,12),(4,7,10),(6,11,15),(3,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((6,11,15),(4,7,10),(9,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,7),(4,7,10),(9,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,12),(3,5,7),(9,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,12),(6,11,15),(9,16,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(5,9,12),(3,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(5,9,12),(6,11,15),(2,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((5,9,12),(6,11,15),(7,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(6,11,15),(7,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(7,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(5,9,12),(7,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(1,2,3),(6,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(6,11,15),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,15),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
    [5,3]((2,3,4),(1,1,2),(2,3,5),(6,10,15),(3,5,7)); lvl=2; h,r-ind=1,1
      [5,3]((2,3,4),(6,9,14),(9,14,21),(1,1,2),(7,11,16)); lvl=3; h,r-ind=1,1
        [3,3]((9,14,21),(4,6,9),(7,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(4,6,9),(7,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(9,14,21),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(1,1,2),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(1,1,2),(4,6,9)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,7),(5,8,12),(9,14,21),(7,11,16)); lvl=3; h,r-ind=1,1
        [3,3]((5,8,12),(12,19,28),(9,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((7,11,16),(12,19,28),(9,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,7),(5,8,12),(12,19,28)); lvl=4; h,r-ind=1,1
        [3,3]((7,11,16),(3,5,7),(12,19,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,7),(7,11,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(6,10,15),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(1,1,2)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,5),(5,8,12),(6,9,14),(9,14,21)); lvl=3; h,r-ind=1,1
        [3,3]((9,14,21),(5,8,12),(11,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(5,8,12),(11,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(2,3,5),(11,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(9,14,21),(11,17,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(6,10,15),(5,8,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(2,3,3),(2,3,4),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,3),(3,5,6),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(3,5,6),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,5,7),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(2,3,4),(1,1,2)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,1),(2,3,3),(2,3,4),(4,5,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(2,3,3),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((1,1,1),(4,5,7),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,4),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,1,1),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,6),(2,3,5),(1,2,3),(6,10,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(6,10,15),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(6,10,15),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(2,3,5),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,6),(3,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
  [6,3]((1,2,4),(3,8,13),(1,3,3),(1,3,4),(2,5,5),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,8),(3,8,13),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,7),(2,5,8),(4,9,14),(1,2,4)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,7,11),(2,5,8),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,14),(3,7,11),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(4,9,14),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(3,7,11),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(4,9,14),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,6),(2,5,7),(4,9,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,7,10),(2,5,6),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,14),(3,7,10),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,9,14),(3,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,10),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,5),(1,2,3),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,8),(3,8,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,7),(4,11,14),(1,3,4),(2,5,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,11),(1,3,4),(4,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(3,8,11),(4,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(3,8,11),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(2,5,8),(3,8,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(2,5,6),(2,5,7),(4,11,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,6),(3,8,10),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,14),(3,8,10),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,6),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,14),(1,3,3),(3,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(4,11,14),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,14),(1,2,4),(3,8,13)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(3,7,14),(3,8,13)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(3,8,13),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,4),(2,3,6),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,5,5)); lvl=1; h,r-ind=5,5; optimized-h
```

14.23 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,9,14)); lvl=0; h,r-ind=14,196
  [5,3]((1,2,3),(1,2,2),(2,5,5),(2,5,7),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,8),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [6,3]((5,11,13),(6,13,16),(5,11,14),(3,7,8),(3,7,9),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,11),(2,5,6),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(4,9,11),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,16),(5,11,14),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(6,13,16),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(4,9,11),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(3,7,8),(4,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,9),(2,5,7),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((5,11,14),(3,7,9),(1,2,3),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,9),(2,5,7),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(3,7,9),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,14),(4,9,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(5,11,13),(6,13,16),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,13),(6,13,16),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,16),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,11,13),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(7,15,18)); lvl=3; h,r-ind=1,1
    [4,3]((6,13,16),(5,11,14),(2,4,5),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,16),(2,4,5),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(1,2,3),(7,15,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(2,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(5,11,13),(3,7,8),(2,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,10),(5,11,13),(3,7,8)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,5,5),(4,9,10),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,9,10),(5,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(2,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,6,9),(0,1,0),(3,9,13)); lvl=1; h,r-ind=1,1
  [3,3]((3,9,14),(2,6,9),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,3),(3,8,12),(2,5,7),(4,11,16)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,12),(4,11,16),(5,13,19)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(4,11,16),(5,13,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(5,13,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,8,12),(5,13,19)); lvl=2; h,r-ind=1,1
  [3,3]((3,9,14),(1,2,3),(3,8,12)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,9,14),(1,2,3)); lvl=1; h,r-ind=1,1
  [5,3]((0,1,0),(2,5,5),(2,5,7),(4,11,16),(3,9,13)); lvl=1; h,r-ind=1,2
    [4,3]((1,3,3),(2,6,7),(2,5,6),(2,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,6),(3,8,9),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,8,9),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(1,3,3),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(2,5,6),(3,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,7),(1,3,4),(2,5,7),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,10),(1,3,4),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,8,10),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,8,10),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(2,6,7),(3,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(4,11,16),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(3,9,13),(4,11,16)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,4),(3,9,13)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,6,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,6,7)); lvl=2; h,r-ind=1,1
  [4,3]((2,6,9),(3,8,12),(4,11,16),(3,9,13)); lvl=1; h,r-ind=1,1
    [3,3]((4,11,16),(3,8,12),(6,17,25)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(3,8,12),(6,17,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,13),(2,6,9),(6,17,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,13),(4,11,16),(6,17,25)); lvl=2; h,r-ind=1,1
  [3,3]((3,9,14),(2,6,9),(3,8,12)); lvl=1; h,r-ind=1,1
```

14.24 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,10,14)); lvl=0; h,r-ind=14,98
  [3,3]((1,3,4),(1,0,0),(2,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((3,10,14),(1,3,4),(2,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,5),(1,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(2,4,5),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((2,5,5),(1,2,2),(2,4,5),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(1,2,2),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,3,4)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(3,10,13),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((3,10,14),(3,10,13),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((3,10,14),(0,1,0),(3,10,13)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
```

14.25 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,12,14)); lvl=0; h,r-ind=14,98
  [4,3]((2,8,9),(3,10,11),(4,15,17),(3,12,13)); lvl=1; h,r-ind=1,1
    [3,3]((7,26,29),(3,10,11),(4,15,17)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,8,9),(7,26,29),(4,15,17)); lvl=2; h,r-ind=1,1
    [3,3]((7,26,29),(3,11,12),(3,10,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,8,9),(7,26,29),(3,12,13),(3,11,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,19,21),(3,11,12),(7,26,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(5,19,21),(7,26,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,13),(5,19,21),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(3,12,13),(5,19,21)); lvl=3; h,r-ind=1,1
  [3,3]((3,12,14),(2,8,9),(4,15,17)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,10,11),(2,5,5),(3,12,13)); lvl=1; h,r-ind=1,1
```

```
    [4,3]((3,11,12),(1,3,3),(2,7,7),(3,10,11)); lvl=2; h,r-ind=1,1
      [3,3]((4,14,15),(1,3,3),(2,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,12),(4,14,15),(2,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,15),(3,10,11),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,12),(4,14,15),(3,10,11)); lvl=3; h,r-ind=1,1
    [4,3]((3,12,13),(3,11,12),(1,4,4),(2,7,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,15,16),(2,7,7),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,13),(4,15,16),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,16),(1,4,4),(2,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,13),(4,15,16),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,12,13),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(1,3,3),(3,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,5),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,7,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,8,9),(0,1,0),(3,12,13)); lvl=1; h,r-ind=1,1
  [3,3]((3,12,14),(2,8,9),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,1),(3,8,9),(3,10,11),(2,5,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(3,9,10),(3,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,5,5),(3,10,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(1,2,2),(3,8,9),(3,9,10)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(3,9,10),(4,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(3,9,10),(4,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,2),(4,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(1,1,1),(4,10,11)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,0,0),(2,6,7),(1,1,1),(3,8,9)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,8),(2,6,7),(3,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,8),(1,1,1),(3,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,7,8),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,7,8),(2,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [5,3]((3,12,14),(2,6,7),(3,8,9),(3,10,11),(4,15,17)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,8),(3,10,11),(3,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(2,7,8),(3,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(3,8,9),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,17),(2,7,8),(3,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,12,14),(4,15,17),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(3,12,14),(2,7,8)); lvl=2; h,r-ind=1,1
```

14.26 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,13,14)); lvl=0; h,r-ind=14,196
  [3,3]((1,4,4),(0,1,0),(3,13,13)); lvl=1; h,r-ind=1,1
  [3,3]((3,13,14),(0,1,0),(3,13,13)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((3,13,14),(1,4,4),(3,13,13)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,4),(0,1,0),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,1,1),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,13,14),(1,1,1),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(3,13,14),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,13,14),(1,4,4),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
```

14.27 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,7,14)); lvl=0; h,r-ind=14,14
  [4,3]((1,2,3),(1,1,2),(2,3,6),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(1,1,2),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(1,2,2),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((2,4,7),(4,7,14),(1,2,3),(2,3,6)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,7),(6,11,20),(3,5,10),(4,7,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,10),(6,11,20),(5,9,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(6,11,20),(5,9,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,14),(3,5,10),(5,9,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(4,7,14),(5,9,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,7),(6,11,20)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(6,11,20),(2,3,6),(3,5,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,10),(6,11,20),(4,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(6,11,20),(4,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,5,10),(4,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,6),(4,7,13)); lvl=3; h,r-ind=1,1
```

```
  [3,3]((0,1,0),(2,4,7),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

14.28 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,9,14)); lvl=0; h,r-ind=14,98
  [3,3]((1,2,2),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((4,9,14),(1,0,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,7),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((4,9,14),(2,5,7),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(2,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

14.29 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,11,14)); lvl=0; h,r-ind=14,98
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,6),(2,5,6),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(3,6,7),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,6,7),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,5,6),(3,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(2,5,6),(3,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((2,4,5),(5,12,15),(3,5,6),(2,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(5,12,15),(4,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(5,12,15),(4,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,5,6),(4,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(2,5,6),(4,9,11)); lvl=2; h,r-ind=1,1
  [3,3]((4,11,14),(5,12,15),(2,5,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(2,4,5),(3,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((4,11,14),(2,4,5),(5,12,15)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,11,14),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,6),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,6,7),(2,5,6),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,11,14),(2,6,7),(2,5,6)); lvl=1; h,r-ind=2,2; optimized-h
```

14.30 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,13,14)); lvl=0; h,r-ind=14,98
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((4,13,14),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,13,14),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((4,13,14),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(0,1,0),(2,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((4,13,14),(1,3,3),(2,7,7)); lvl=1; h,r-ind=1,1
```

14.31 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,7,14)); lvl=0; h,r-ind=14,14
  [3,3]((1,1,2),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,2),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(3,4,7),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(6,7,14),(3,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,7),(1,2,2)); lvl=1; h,r-ind=1,1
```

14.32 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,13,14)); lvl=0; h,r-ind=14,98
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((6,13,14),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,7,7),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((6,13,14),(3,7,7),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((6,13,14),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((6,13,14),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

14.33 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,8,14)); lvl=0; h,r-ind=14,14
  [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((7,9,14),(0,1,0),(2,2,3),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(8,9,12),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(0,1,0),(8,9,12),(1,1,1)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,2,2),(4,5,6),(1,1,1),(0,1,0)); lvl=3; h,r-ind=1,2
        [3,3]((2,3,3),(4,5,6),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(0,1,0),(2,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,3),(4,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(1,2,2),(4,5,6)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((2,3,4),(5,6,8),(4,5,6)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((5,6,8),(8,9,12),(4,5,6),(1,1,1)); lvl=3; h,r-ind=1,2
        [3,3]((8,9,12),(6,7,9),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,6),(6,7,9),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,8),(4,5,6),(6,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,8),(8,9,12),(6,7,9)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,6),(2,3,4),(2,2,3),(8,9,12)); lvl=2; h,r-ind=1,1
      [4,3]((2,2,3),(11,13,18),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
        [3,3]((7,8,11),(11,13,18),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,12),(7,8,11),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(8,9,12),(7,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(7,8,11),(11,13,18)); lvl=4; h,r-ind=1,1
      [4,3]((4,5,7),(11,13,18),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,1
        [3,3]((9,11,15),(5,6,8),(11,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(9,11,15),(11,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(2,3,4),(9,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(9,11,15),(5,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(4,5,7),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(2,2,3),(11,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(4,5,7),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,14),(3,4,6),(2,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(4,4,7)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((7,9,14),(7,8,14),(2,2,3),(4,4,7)); lvl=1; h,r-ind=1,1
    [4,3]((7,8,14),(5,6,10),(4,4,7),(3,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((4,4,7),(3,3,5),(13,14,24)); lvl=3; h,r-ind=1,1
      [4,3]((6,7,12),(5,6,10),(3,3,5),(13,14,24)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,10,17),(3,3,5),(5,6,10)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,12),(9,10,17),(5,6,10)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,17),(13,14,24),(3,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,12),(9,10,17),(13,14,24)); lvl=4; h,r-ind=1,1
      [4,3]((7,8,14),(6,7,12),(4,4,7),(13,14,24)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,7,12),(10,11,19),(13,14,24)); lvl=4; h,r-ind=1,1
        [3,3]((4,4,7),(10,11,19),(13,14,24)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,14),(4,4,7),(10,11,19)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,14),(6,7,12),(10,11,19)); lvl=4; h,r-ind=1,1
    [4,3]((4,5,8),(5,6,10),(2,2,3),(3,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,3,5),(2,2,3),(7,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(2,2,3),(7,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,10),(4,5,8),(7,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,10),(3,3,5),(7,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,14),(4,5,8),(2,2,3)); lvl=2; h,r-ind=1,1
```

14.34 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,9,14)); lvl=0; h,r-ind=14,28
  [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,6),(2,3,4),(2,2,3),(3,3,4)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((4,5,7),(3,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(4,5,7),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,6),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(4,5,7),(3,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,1,1),(2,3,4),(3,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,6),(1,1,1),(3,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(4,5,6),(3,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,2),(2,3,4),(4,5,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((0,1,0),(1,2,2),(4,5,6),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,3),(1,2,2),(4,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(1,1,1),(4,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
  [3,3]((7,9,14),(3,4,6),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,9,14),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
```

14.35 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,10,14)); lvl=0; h,r-ind=14,14
  [3,3]((1,0,0),(3,3,4),(4,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,4),(4,5,7),(3,3,4),(4,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,8),(3,3,4),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(5,6,8),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,8),(4,4,5),(3,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(5,6,8),(4,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,4),(4,5,7),(7,10,14)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(4,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,4),(3,5,6),(1,1,1),(4,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,5),(3,5,6),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((4,4,5),(3,4,5),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(4,4,5),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,5),(3,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,5,6),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,7),(1,0,0),(3,3,4)); lvl=1; h,r-ind=1,1
```

14.36 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,12,14)); lvl=0; h,r-ind=14,14
  [3,3]((1,2,2),(5,9,10),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((4,6,7),(7,12,14),(5,9,10),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(4,7,8),(5,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(9,14,16),(4,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,7),(9,14,16),(7,12,14),(4,7,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((8,13,15),(4,7,8),(9,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(8,13,15),(9,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,14),(8,13,15),(4,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(7,12,14),(8,13,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,7),(1,1,1),(9,14,16)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(4,6,7),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

14.37 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,13,14)); lvl=0; h,r-ind=14,28
  [3,3]((1,1,1),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,13,14),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(7,13,14),(1,1,1)); lvl=1; h,r-ind=1,1
```

14.38 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,9,14)); lvl=0; h,r-ind=14,98
  [3,3]((3,3,4),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [5,3]((8,9,13),(3,3,4),(5,6,8),(4,5,6),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,6),(3,3,4),(8,9,12)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,3),(3,3,4),(8,9,12)); lvl=2; h,r-ind=1,1
    [4,3]((13,15,20),(11,13,17),(4,5,6),(8,9,12)); lvl=2; h,r-ind=1,1
      [4,3]((11,13,17),(30,35,46),(6,7,9),(4,5,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((17,20,26),(6,7,9),(30,35,46)); lvl=4; h,r-ind=1,1
        [3,3]((11,13,17),(17,20,26),(30,35,46)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,6),(17,20,26),(6,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((11,13,17),(4,5,6),(17,20,26)); lvl=4; h,r-ind=1,1
      [3,3]((13,15,20),(11,13,17),(30,35,46)); lvl=3; h,r-ind=1,1
      [4,3]((8,9,12),(13,15,20),(30,35,46),(6,7,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((19,22,29),(30,35,46),(13,15,20)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,12),(19,22,29),(13,15,20)); lvl=4; h,r-ind=1,1
        [3,3]((19,22,29),(6,7,9),(30,35,46)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,12),(19,22,29),(6,7,9)); lvl=4; h,r-ind=1,1
    [4,3]((2,2,3),(7,8,11),(13,15,20),(8,9,12)); lvl=2; h,r-ind=1,1
      [3,3]((15,17,23),(13,15,20),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(15,17,23),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,12),(15,17,23),(13,15,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(8,9,12),(15,17,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(8,9,13),(7,8,11)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,8),(7,8,11),(13,15,20),(11,13,17)); lvl=2; h,r-ind=1,1
      [3,3]((13,15,20),(7,8,11),(18,21,28)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(7,8,11),(18,21,28)); lvl=3; h,r-ind=1,1
      [3,3]((11,13,17),(5,6,8),(18,21,28)); lvl=3; h,r-ind=1,1
      [3,3]((11,13,17),(13,15,20),(18,21,28)); lvl=3; h,r-ind=1,1
    [3,3]((8,9,13),(5,6,8),(7,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,8),(11,13,17),(4,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((9,10,15),(8,9,13),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((8,9,14),(9,10,15),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((8,9,14),(9,10,15),(7,8,12)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,4,5),(5,6,8),(4,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,5),(5,6,8),(10,13,16)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,3),(4,5,6),(5,6,8),(10,13,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,9,11),(4,5,6),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,16),(7,9,11),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(10,13,16),(7,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(7,9,11),(4,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(2,3,3),(3,4,5),(10,13,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,7,8),(2,3,3),(10,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,8),(3,4,5),(10,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(5,7,8),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(5,7,8),(2,3,3)); lvl=3; h,r-ind=1,1
  [6,3]((9,10,15),(7,8,12),(4,5,7),(8,9,13),(3,4,5),(5,6,8)); lvl=1; h,r-ind=1,1
    [3,3]((6,7,10),(3,4,5),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((7,8,12),(6,7,10),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((9,10,15),(7,8,12),(6,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,10),(5,6,8),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,10),(8,9,13),(5,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((9,10,15),(6,7,10),(8,9,13)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(4,5,7),(3,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((8,9,14),(7,8,12),(4,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((8,9,14),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,4),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,3,4),(4,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,3),(4,5,6),(3,3,4),(6,7,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,3,4),(4,5,6),(5,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(4,5,6),(5,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,8),(3,3,4),(5,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(6,7,8),(5,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(3,3,4),(6,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,1,1),(2,3,3),(6,7,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,4),(6,7,8),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(0,1,0),(3,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,4),(6,7,8)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

14.39 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,11,14)); lvl=0; h,r-ind=14,98
  [3,3]((4,5,6),(2,3,3),(3,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(4,6,7),(2,3,3),(3,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,5),(4,6,7),(3,4,5)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((2,3,3),(3,5,5),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(3,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,5,5),(4,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((8,11,14),(4,6,7),(3,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,5,6),(3,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((8,11,14),(1,0,0),(3,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(4,5,6),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(1,0,0),(4,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
```

14.40 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,13,14)); lvl=0; h,r-ind=14,98
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((8,13,14),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(8,13,14),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,7,7),(2,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((8,13,14),(4,7,7),(2,3,3)); lvl=1; h,r-ind=2,2; optimized-h
```

14.41 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,9,14)); lvl=0; h,r-ind=14,196
  [3,3]((1,0,0),(3,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((9,9,14),(0,1,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((9,9,14),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
```

14.42 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,13,14)); lvl=0; h,r-ind=14,196
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((9,13,14),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((9,13,14),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(0,1,0),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((9,13,14),(2,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((9,13,14),(2,3,3),(3,4,4)); lvl=1; h,r-ind=1,1
```

14.43 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,13,14)); lvl=0; h,r-ind=14,98
  [3,3]((0,1,0),(4,5,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((10,13,14),(4,5,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(10,13,14),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,7,7),(4,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((10,13,14),(5,7,7),(4,5,5)); lvl=1; h,r-ind=3,3; optimized-h
```

14.44 Resolved

```
[3,3]((1,0,0),(0,1,0),(12,13,14)); lvl=0; h,r-ind=14,98
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((12,13,14),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(6,7,7),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((12,13,14),(6,7,7),(1,1,1)); lvl=1; h,r-ind=1,1
```

14.45 Resolved

```
[3,3]((1,0,0),(0,1,0),(13,13,14)); lvl=0; h,r-ind=14,196
  [3,3]((13,13,14),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(13,13,14),(1,1,1)); lvl=1; h,r-ind=1,1
```

15 H-index = 15

15.0 Classification

```
[3,3]((1,0,0),(0,1,0),(0,1,15))
  [3,3]((1,0,0),(0,1,0),(0,1,15))
  [3,3]((1,0,0),(0,1,0),(1,0,15))
  [3,3]((1,0,0),(1,15,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,2,15))
  [3,3]((1,0,0),(0,1,0),(0,2,15))
  [3,3]((1,0,0),(0,1,0),(0,8,15))
  [3,3]((1,0,0),(0,1,0),(2,0,15))
  [3,3]((1,0,0),(0,1,0),(8,0,15))
  [3,3]((1,0,0),(2,15,0),(0,0,1))
  [3,3]((1,0,0),(8,15,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,4,15))
  [3,3]((1,0,0),(0,1,0),(0,4,15))
  [3,3]((1,0,0),(0,1,0),(4,0,15))
  [3,3]((1,0,0),(4,15,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,7,15))
  [3,3]((1,0,0),(0,1,0),(0,7,15))
  [3,3]((1,0,0),(0,1,0),(0,13,15))
  [3,3]((1,0,0),(0,1,0),(7,0,15))
  [3,3]((1,0,0),(0,1,0),(13,0,15))
  [3,3]((1,0,0),(7,15,0),(0,0,1))
  [3,3]((1,0,0),(13,15,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,11,15))
  [3,3]((1,0,0),(0,1,0),(0,11,15))
  [3,3]((1,0,0),(0,1,0),(11,0,15))
  [3,3]((1,0,0),(11,15,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,14,15))
  [3,3]((1,0,0),(0,1,0),(0,14,15))
  [3,3]((1,0,0),(0,1,0),(14,0,15))
  [3,3]((1,0,0),(14,15,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(1,1,15))
  [3,3]((1,0,0),(0,1,0),(1,1,15))
  [3,3]((1,0,0),(0,1,0),(1,14,15))
  [3,3]((1,0,0),(0,1,0),(14,1,15))
[3,3]((1,0,0),(0,1,0),(1,2,15))
  [3,3]((1,0,0),(0,1,0),(1,2,15))
  [3,3]((1,0,0),(0,1,0),(1,13,15))
  [3,3]((1,0,0),(0,1,0),(2,1,15))
  [3,3]((1,0,0),(0,1,0),(7,8,15))
  [3,3]((1,0,0),(0,1,0),(8,7,15))
  [3,3]((1,0,0),(0,1,0),(13,1,15))
[3,3]((1,0,0),(0,1,0),(1,3,15))
  [3,3]((1,0,0),(0,1,0),(1,3,15))
  [3,3]((1,0,0),(0,1,0),(1,12,15))
  [3,3]((1,0,0),(0,1,0),(3,1,15))
  [3,3]((1,0,0),(0,1,0),(12,1,15))
  [3,3]((1,0,0),(1,3,0),(0,1,5))
  [3,3]((1,0,0),(1,3,0),(0,4,5))
[3,3]((1,0,0),(0,1,0),(1,4,15))
  [3,3]((1,0,0),(0,1,0),(1,4,15))
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```

15.1 Resolved

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    [3,3]((1,0,0),(0,1,7),(0,2,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,4),(0,1,7)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,0,0),(0,1,0),(0,1,4)); lvl=2; h,r-ind=4,4; optimized-h
  [3,3]((1,0,0),(0,1,15),(0,2,15)); lvl=1; h,r-ind=15,15
    [3,3]((1,0,0),(0,1,15),(0,1,11)); lvl=2; h,r-ind=4,4; optimized-h
    [3,3]((1,0,0),(0,1,8),(0,1,11)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,0,0),(0,1,8),(0,2,15)); lvl=2; h,r-ind=1,1
```

15.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,2,15)); lvl=0; h,r-ind=15,15
  [3,3]((1,0,0),(0,1,7),(0,2,15)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,4),(0,1,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(0,1,4)); lvl=1; h,r-ind=4,4; optimized-h
```

15.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,4,15)); lvl=0; h,r-ind=15,15
  [3,3]((1,0,0),(0,1,2),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,2,7),(0,1,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,4,15),(0,2,7)); lvl=1; h,r-ind=2,2; optimized-h
```

15.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,7,15)); lvl=0; h,r-ind=15,15
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,2),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,7,15),(0,1,2)); lvl=1; h,r-ind=1,1
```

15.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,11,15)); lvl=0; h,r-ind=15,15
  [3,3]((1,0,0),(0,4,5),(0,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,11,15),(0,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,1),(0,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
```

15.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,14,15)); lvl=0; h,r-ind=15,15
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,14,15),(0,1,1)); lvl=1; h,r-ind=1,1
```

15.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,15)); lvl=0; h,r-ind=15,225
  [3,3]((0,1,0),(1,1,14),(2,2,15)); lvl=1; h,r-ind=13,13; optimized-h
  [3,3]((1,0,0),(1,1,14),(2,2,15)); lvl=1; h,r-ind=13,13; optimized-h
  [3,3]((1,0,0),(0,1,0),(2,2,15)); lvl=1; h,r-ind=15,225
    [3,3]((1,0,0),(1,1,4),(1,1,7)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((0,1,0),(1,1,4),(1,1,7)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((2,2,15),(0,1,0),(1,1,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,15),(1,0,0),(1,1,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,4)); lvl=2; h,r-ind=4,16; optimized-h
  [3,3]((1,1,15),(0,1,0),(1,1,14)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,15),(1,1,14)); lvl=1; h,r-ind=1,1
```

15.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,15)); lvl=0; h,r-ind=15,225
  [5,3]((1,2,13),(2,4,15),(2,3,21),(1,1,7),(1,1,4)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,13),(1,2,10),(2,3,16),(2,3,20)); lvl=2; h,r-ind=1,1
      [4,3]((2,4,23),(2,3,18),(1,2,10),(2,3,16)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,11),(1,2,10),(2,3,16),(2,3,17)); lvl=4; h,r-ind=1,1
          [3,3]((1,2,10),(2,3,16),(3,5,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,17),(2,3,16),(3,5,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,11),(1,2,10),(3,5,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,17),(1,2,11),(3,5,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,11),(2,3,18),(2,3,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,11),(2,4,23),(2,3,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,13),(2,4,23),(2,3,20),(2,3,18)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,12),(2,3,19),(2,3,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,23),(1,2,12),(2,3,18)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,13),(1,2,12),(2,3,19),(2,3,20)); lvl=4; h,r-ind=1,1
          [3,3]((1,2,12),(2,3,19),(3,5,32)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,20),(2,3,19),(3,5,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,13),(1,2,12),(3,5,32)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,20),(1,2,13),(3,5,32)); lvl=5; h,r-ind=1,1
    [4,3]((1,1,7),(2,2,11),(2,3,16),(2,3,20)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,6),(2,3,16),(2,2,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,6),(2,3,18),(2,3,16)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,1,6),(1,1,7),(2,3,20),(2,3,18)); lvl=3; h,r-ind=1,1
        [4,3]((1,1,7),(4,5,32),(2,3,19),(2,3,20)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,26),(4,5,32),(2,3,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,20),(3,4,26),(2,3,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,7),(2,3,20),(3,4,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,7),(3,4,26),(4,5,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,6),(1,1,7),(4,5,32)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,18),(1,1,6),(4,5,32),(2,3,19)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,25),(4,5,32),(1,1,6)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,18),(3,4,25),(1,1,6)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,25),(2,3,19),(4,5,32)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,18),(3,4,25),(2,3,19)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,13),(2,3,21),(2,3,20)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,7),(2,3,21),(2,3,20)); lvl=2; h,r-ind=1,1
    [5,3]((1,1,4),(2,2,11),(1,2,8),(1,2,10),(2,3,16)); lvl=2; h,r-ind=1,1
      [3,3]((4,6,31),(1,2,10),(2,3,16)); lvl=3; h,r-ind=1,1
      [4,3]((2,2,11),(1,1,5),(4,6,31),(2,3,16)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,21),(1,1,5),(4,6,31)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((3,4,21),(2,3,16),(4,6,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,11),(3,4,21),(2,3,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,11),(3,4,21),(1,1,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,5),(4,6,31),(1,2,10),(1,2,9)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,15),(4,6,31),(1,2,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,9),(2,3,15),(1,2,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(1,2,9),(2,3,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(2,3,15),(4,6,31)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,4),(1,1,5),(1,2,8),(1,2,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,8),(1,2,9),(2,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(1,2,9),(2,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(1,2,8),(2,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(1,1,4),(2,3,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,4),(2,4,15),(1,2,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,7),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((0,1,0),(2,4,15),(1,0,0),(1,1,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,7),(2,4,15),(1,1,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,7),(2,2,7),(2,3,10),(1,1,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,10),(2,2,7),(3,4,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(2,2,7),(3,4,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(1,1,4),(3,4,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(2,3,10),(3,4,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,7),(1,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,7),(2,3,10),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,7),(1,2,6)); lvl=2; h,r-ind=1,1
    [5,3]((1,0,0),(2,2,7),(2,3,10),(1,2,6),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,10),(2,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,3),(2,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,2,6),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,2,5),(1,2,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,2),(1,1,3),(1,2,5),(1,2,4)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,3),(1,2,5),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(1,2,5),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(1,1,3),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(1,1,2),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,6),(1,2,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,0,0),(1,2,4)); lvl=2; h,r-ind=4,8; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,2,7),(2,4,15)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,15),(1,0,0),(1,1,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,15),(1,2,13),(2,3,21)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,13),(2,4,15)); lvl=1; h,r-ind=11,11; optimized-h
  [3,3]((1,2,15),(0,1,0),(1,2,13)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,15),(2,3,21),(1,1,7)); lvl=1; h,r-ind=1,1
```

15.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,15)); lvl=0; h,r-ind=15,75
  [4,3]((1,0,0),(2,3,15),(1,3,12),(2,6,15)); lvl=1; h,r-ind=9,3
    [3,3]((1,1,5),(1,2,9),(2,3,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,5),(2,3,12),(1,2,9)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [6,3]((2,3,12),(4,6,21),(2,4,13),(2,6,19),(1,3,12),(1,2,9)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,7),(3,5,17),(4,6,21),(2,3,11)); lvl=3; h,r-ind=1,1
        [3,3]((3,5,17),(4,6,21),(5,8,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(4,6,21),(5,8,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(3,5,17),(5,8,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(1,2,7),(5,8,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(2,4,15),(2,3,11)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,12),(2,4,15),(1,2,8),(2,3,11)); lvl=3; h,r-ind=1,1
        [3,3]((3,5,19),(1,2,8),(2,4,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(3,5,19),(2,4,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,12),(2,3,11),(3,5,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,12),(3,5,19),(1,2,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,12),(1,2,9),(1,2,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,10),(2,6,21),(1,2,7),(2,4,15)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,7),(4,10,35),(2,4,15),(2,5,18)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,7,25),(4,10,35),(2,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,15),(3,7,25),(2,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,7),(2,4,15),(3,7,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,7),(3,7,25),(4,10,35)); lvl=5; h,r-ind=1,1
        [4,3]((2,6,21),(1,3,10),(4,10,35),(2,5,18)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,8,28),(1,3,10),(4,10,35)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,28),(2,5,18),(4,10,35)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,21),(3,8,28),(2,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,21),(3,8,28),(1,3,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(1,2,7),(4,10,35)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,21),(2,4,15),(1,2,8),(1,3,12)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((2,4,15),(1,2,8),(3,7,26),(5,12,45)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,8),(5,12,45),(4,9,34)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,26),(5,12,45),(4,9,34)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,15),(3,7,26),(4,9,34)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,15),(1,2,8),(4,9,34)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,11),(2,5,18),(3,7,26),(5,12,45)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,37),(2,5,18),(3,7,26)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,45),(4,10,37),(3,7,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,11),(5,12,45),(4,10,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,11),(4,10,37),(2,5,18)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,21),(1,3,11),(2,5,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,11),(1,3,12),(1,2,8),(5,12,45)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,5,19),(1,3,12),(1,2,8)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,45),(2,5,19),(1,2,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,11),(5,12,45),(2,5,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,11),(2,5,19),(1,3,12)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,18),(2,4,15),(3,7,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,9),(1,2,8),(1,3,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,7),(2,4,13),(3,5,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,7),(2,4,13),(2,5,16)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,19),(1,3,10),(1,2,7),(2,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,26),(1,2,7),(1,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,19),(3,8,26),(1,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,16),(2,6,19),(3,8,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,16),(3,8,26),(1,2,7)); lvl=4; h,r-ind=1,1
  [4,3]((1,2,6),(2,4,13),(2,6,19),(1,3,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,9),(2,5,16),(3,7,22),(5,12,37)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,31),(2,5,16),(3,7,22)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,37),(4,10,31),(3,7,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(5,12,37),(4,10,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(4,10,31),(2,5,16)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,6),(2,4,13),(3,7,22),(5,12,37)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,28),(2,4,13),(3,7,22)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,37),(4,9,28),(3,7,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(5,12,37),(4,9,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(4,9,28),(2,4,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,6),(1,3,8),(1,3,9),(5,12,37)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,5,15),(1,3,8),(1,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,37),(2,5,15),(1,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(5,12,37),(2,5,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,5,15),(1,3,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,9),(2,6,19),(2,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,13),(2,5,16),(3,7,22)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,5),(1,2,6),(2,3,9),(1,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(2,4,11),(1,2,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(2,4,11),(1,2,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(1,3,8),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,9),(2,4,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,5),(1,3,8),(2,6,15)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,6),(2,3,9),(4,6,21),(2,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(3,5,17),(4,6,21)); lvl=3; h,r-ind=1,1
    [4,3]((7,12,39),(4,7,23),(2,3,10),(3,5,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,23),(6,10,33),(3,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(6,10,33),(3,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((7,12,39),(4,7,23),(6,10,33)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(7,12,39),(6,10,33)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,13),(4,7,23),(3,5,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,6),(7,12,39),(2,3,9),(2,3,10)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,3,10),(2,3,9),(3,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,3,9),(3,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((7,12,39),(2,3,10),(3,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(7,12,39),(3,5,16)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,6),(2,4,13),(7,12,39),(4,7,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,13),(5,9,29),(4,7,23)); lvl=4; h,r-ind=1,1
      [3,3]((7,12,39),(5,9,29),(4,7,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(7,12,39),(5,9,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,4,13),(5,9,29)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,5),(2,3,12),(4,6,21)); lvl=2; h,r-ind=3,3
    [3,3]((1,1,4),(2,3,12),(1,1,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,4),(1,1,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,4),(2,3,11),(2,3,12)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,21),(1,1,4),(2,3,11),(4,6,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,11),(1,1,4),(6,8,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,14),(1,1,4),(6,8,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,14),(5,6,21),(1,1,4)); lvl=4; h,r-ind=1,1
      [4,3]((4,6,21),(3,4,14),(2,3,11),(6,8,29)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,14),(6,8,29),(5,7,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,11),(6,8,29),(5,7,25)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,21),(2,3,11),(5,7,25)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,21),(3,4,14),(5,7,25)); lvl=5; h,r-ind=1,1
```

```
      [3,3]((1,0,0),(5,6,21),(1,1,4)); lvl=3; h,r-ind=3,3; optimized-h
    [3,3]((1,0,0),(2,3,9),(4,6,21)); lvl=2; h,r-ind=9,3; optimized-h
    [3,3]((1,2,5),(1,0,0),(2,3,9)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,3,12),(2,6,15)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((1,3,15),(0,1,0),(1,3,12)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,6,15)); lvl=1; h,r-ind=15,75
    [4,3]((2,5,10),(1,2,4),(1,3,7),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,11),(1,2,4),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,11),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(1,3,7),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(2,5,11),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,15),(1,3,7),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,6,15),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,4),(1,2,5)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,0,0),(1,2,4),(1,2,3)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((2,5,10),(1,3,5),(1,3,7)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((0,1,0),(1,3,5),(1,3,7)); lvl=2; h,r-ind=2,2; optimized-h
    [5,3]((2,5,10),(1,2,4),(1,2,3),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,13),(1,3,4),(1,3,5)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,9),(3,8,13),(4,10,17),(1,3,5)); lvl=3; h,r-ind=1,1
        [3,3]((5,13,22),(3,8,13),(4,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(5,13,22),(4,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(5,13,22),(3,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(1,3,5),(5,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(2,5,9),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(2,5,9),(1,2,4)); lvl=3; h,r-ind=1,1
      [5,3]((3,7,12),(3,8,13),(4,10,17),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((4,10,17),(2,5,8),(3,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,8),(3,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(2,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(4,10,17),(2,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(1,2,3),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,12),(1,2,4),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,9),(3,7,12),(4,10,17),(1,2,4)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,12),(4,10,17),(5,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(4,10,17),(5,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(2,5,9),(5,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(3,7,12),(5,12,21)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(1,0,0),(1,2,3),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,9),(1,1,1),(1,2,2),(1,2,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,4,5),(1,2,2),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(1,2,3),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(2,4,5),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(2,4,5),(1,2,2)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(3,7,9),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,3,4),(3,7,9),(1,2,2)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,5,6),(1,3,4),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,5,6),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(2,5,6),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(3,8,9),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,3,3),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,3),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,8,9),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,15),(2,3,15),(1,3,12)); lvl=1; h,r-ind=9,3; optimized-h
```

15.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,4,15)); lvl=0; h,r-ind=15,225
  [4,3]((1,4,15),(1,4,11),(2,7,25),(2,7,21)); lvl=1; h,r-ind=4,1
    [4,3]((1,4,13),(1,4,11),(2,7,23),(2,7,21)); lvl=2; h,r-ind=2,1
      [4,3]((1,4,12),(1,4,11),(2,7,22),(2,7,21)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,22),(2,7,21),(3,11,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,11),(2,7,21),(3,11,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,12),(1,4,11),(3,11,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,12),(2,7,22),(3,11,33)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,13),(1,4,12),(2,7,22),(2,7,23)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,12),(2,7,22),(3,11,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,23),(2,7,22),(3,11,35)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,13),(1,4,12),(3,11,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,23),(1,4,13),(3,11,35)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,15),(1,4,13),(2,7,25),(2,7,23)); lvl=2; h,r-ind=2,1
      [4,3]((1,4,14),(1,4,13),(2,7,24),(2,7,23)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,7,24),(2,7,23),(3,11,37)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,13),(2,7,23),(3,11,37)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,14),(1,4,13),(3,11,37)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,14),(2,7,24),(3,11,37)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,15),(1,4,14),(2,7,24),(2,7,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,14),(2,7,24),(3,11,39)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,25),(2,7,24),(3,11,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,15),(1,4,14),(3,11,39)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,25),(1,4,15),(3,11,39)); lvl=4; h,r-ind=1,1
[5,3]((1,3,11),(1,3,9),(1,2,7),(2,7,25),(2,7,21)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,10),(2,7,25),(2,7,23)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,3,10),(2,7,21),(2,7,23)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,3,10),(1,3,9),(2,7,21)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,10),(1,2,7),(1,3,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,11),(1,3,10),(2,7,25)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,11),(1,3,10),(1,2,7)); lvl=2; h,r-ind=1,1
[4,3]((1,0,0),(1,3,9),(1,2,7),(1,3,6)); lvl=1; h,r-ind=3,3
  [4,3]((2,4,11),(1,2,6),(1,3,9),(2,6,15)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,6),(1,3,8),(1,3,9),(5,12,33)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,5,14),(1,3,9),(1,3,8)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,33),(2,5,14),(1,3,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(5,12,33),(2,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,5,14),(1,3,9)); lvl=4; h,r-ind=1,1
    [4,3]((2,4,11),(3,7,19),(1,2,6),(5,12,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,19),(5,12,33),(4,9,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(5,12,33),(4,9,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,11),(3,7,19),(4,9,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,4,11),(4,9,25)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,13),(3,7,19),(1,3,8),(5,12,33)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,27),(3,7,19),(5,12,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(4,10,27),(5,12,33)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(1,3,8),(4,10,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(4,10,27),(3,7,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,15),(2,5,13),(1,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,11),(2,5,13),(3,7,19)); lvl=3; h,r-ind=1,1
  [6,3]((1,3,6),(2,3,6),(3,5,14),(2,3,8),(2,4,11),(2,6,15)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(1,3,7),(1,2,4),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,6),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,6),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(1,3,7),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,5),(2,5,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,5),(2,6,15),(1,3,7),(2,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,6,15),(3,8,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(2,6,15),(3,8,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(1,3,7),(3,8,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(1,2,5),(3,8,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(2,4,11),(2,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,14),(1,2,5),(2,4,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(1,2,4),(2,3,6),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,6),(3,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,6),(3,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(3,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(1,2,5),(3,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,8),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,14),(1,2,5),(2,3,8)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,9),(3,5,14),(2,3,8),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,17),(2,3,8),(3,5,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(4,6,17),(3,5,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(4,6,17),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(1,1,3),(4,6,17)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,6),(2,3,8),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,10),(2,3,7),(2,3,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,3),(3,4,10),(5,6,15),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,13),(5,6,15),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,8),(4,5,13),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,8),(4,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,13),(5,6,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,2),(1,0,0),(1,1,3),(5,6,15)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,2,5),(1,0,0),(1,1,3)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,15),(2,2,5),(1,1,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(5,6,15),(2,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,5),(1,0,0)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,2),(3,4,10),(5,6,15),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(5,6,15),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(4,5,12),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,7),(4,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,12),(5,6,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(2,3,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,6),(1,2,7),(1,3,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,9),(1,2,6),(1,2,7)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((2,3,9),(1,1,3),(1,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(1,2,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,9),(3,5,14),(2,4,11),(1,2,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,20),(2,4,11),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(4,7,20),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(4,7,20),(2,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(1,2,6),(4,7,20)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,11),(1,2,7)); lvl=1; h,r-ind=1,1
  [5,3]((1,4,11),(1,3,9),(1,3,6),(2,8,15),(2,7,21)); lvl=1; h,r-ind=1,1
    [5,3]((2,6,15),(1,3,6),(1,4,9),(1,4,8),(2,7,17)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,7),(3,11,24),(1,4,8),(1,3,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,24),(1,4,8),(2,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,4,8),(2,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(1,3,6),(2,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(3,11,24),(2,7,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,7),(3,11,24),(4,14,33),(1,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,9),(2,7,16),(3,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(2,7,16),(3,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,33),(1,4,9),(2,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(4,14,33),(2,7,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,7),(2,6,15),(2,7,17),(4,14,33)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,15),(3,10,24),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,33),(3,10,24),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(2,6,15),(3,10,24)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,33),(1,3,7),(3,10,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,17),(4,14,33),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,24),(1,4,8),(1,4,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,9),(2,7,20),(2,6,15),(2,7,17)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((1,3,8),(4,14,37),(2,7,17)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((1,3,8),(2,6,15),(2,7,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,9),(1,3,8),(2,7,20),(4,14,37)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,8),(4,14,37),(2,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(4,13,36),(2,7,19)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,9),(2,7,20),(4,13,36),(2,7,19)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,7,20),(3,10,28),(2,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((4,13,36),(3,10,28),(2,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,9),(4,13,36),(3,10,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,9),(2,7,20),(3,10,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(1,3,9),(4,13,36)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,15),(1,3,6),(1,4,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,20),(1,4,11),(1,4,9),(2,7,17)); lvl=2; h,r-ind=1,1
      [4,3]((4,14,37),(2,7,17),(1,4,10),(1,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((4,15,37),(1,4,10),(1,4,9)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,18),(2,7,17),(4,15,37),(1,4,9)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,7,17),(3,11,27),(1,4,9)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,37),(3,11,27),(1,4,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,18),(4,15,37),(3,11,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,18),(2,7,17),(3,11,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,18),(4,15,37),(1,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,37),(2,7,18),(1,4,10)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,20),(4,14,37),(1,4,11),(1,4,10)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,10),(1,4,11),(4,15,40)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,19),(2,7,20),(1,4,11),(4,15,40)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,11,30),(2,7,20),(1,4,11)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,40),(3,11,30),(1,4,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,19),(4,15,40),(3,11,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,19),(3,11,30),(2,7,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,19),(1,4,10),(4,15,40)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,37),(2,7,19),(1,4,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,20),(2,7,21),(1,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,9),(2,7,20),(2,7,21)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(1,3,6),(2,8,15)); lvl=1; h,r-ind=3,3
    [4,3]((1,4,7),(2,3,6),(2,5,8),(1,3,6)); lvl=2; h,r-ind=3,1
      [3,3]((1,3,5),(2,4,7),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,4),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,6),(2,4,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,5),(1,4,7),(1,2,4),(1,3,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,7),(1,3,6),(2,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(1,3,6),(2,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(1,4,7),(2,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(1,3,5),(2,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,15),(1,4,7),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,7),(1,4,4),(2,5,8)); lvl=2; h,r-ind=9,3; alert-h-inc; optimized-h
    [3,3]((0,1,0),(1,4,7),(1,4,4)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((2,8,15),(0,1,0),(1,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,4),(1,0,0),(2,3,6),(2,5,8)); lvl=2; h,r-ind=6,1; alert-h-inc
      [4,3]((1,2,3),(2,4,7),(1,1,2),(2,3,6)); lvl=3; h,r-ind=1,1
        [3,3]((2,4,7),(2,3,6),(3,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(2,3,6),(3,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,7),(3,5,9)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((1,1,2),(1,2,3),(3,5,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,2),(1,2,3),(1,0,0),(1,1,2)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,3),(1,1,2),(3,4,6)); lvl=4; h,r-ind=1,1
        [4,3]((1,0,0),(1,1,1),(1,1,2),(3,4,6)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,2,3),(1,1,1),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(1,1,2),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,2),(1,1,1),(1,2,3),(3,4,6)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,1,1),(3,4,6),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(3,4,6),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(1,1,1),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,3),(2,5,8),(1,3,4),(2,4,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,8),(3,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,7),(2,5,8),(3,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,7),(3,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(3,7,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,4),(1,2,2),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,3),(3,8,10),(1,2,2),(1,2,3)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,6),(1,2,2),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,10),(2,5,6),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(3,8,10),(2,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(2,5,6),(1,2,2)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,10),(1,2,3)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,4),(1,3,3),(1,3,4),(3,8,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,3,3),(3,8,10),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(1,3,3),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(1,4,4),(2,6,7)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(1,0,0)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,4,11),(0,1,0),(2,8,15)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,4,15),(1,4,11),(0,1,0)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,4,15),(1,3,11),(2,7,25)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,15),(1,0,0),(1,3,11)); lvl=1; h,r-ind=1,1
```

15.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,5,15)); lvl=0; h,r-ind=15,45
  [4,3]((1,0,0),(2,5,15),(1,5,10),(2,10,15)); lvl=1; h,r-ind=25,5; alert-h-inc
    [6,3]((1,4,7),(2,10,17),(2,5,10),(1,5,10),(1,3,7),(2,7,17)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,7),(3,12,22),(3,11,21),(1,3,6)); lvl=3; h,r-ind=1,1
        [3,3]((3,12,22),(3,11,21),(4,15,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(3,11,21),(4,15,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(3,12,22),(4,15,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,4,7),(4,15,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,14),(3,11,21),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,14),(3,10,21),(1,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((3,10,21),(3,10,22),(1,3,7),(1,3,6)); lvl=3; h,r-ind=1,1
        [3,3]((4,13,28),(1,3,7),(3,10,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,21),(4,13,28),(3,10,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(3,10,21),(4,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(4,13,28),(1,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(1,3,7),(1,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((3,10,22),(2,7,17),(2,7,16),(1,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((3,10,23),(2,7,17),(2,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,22),(3,10,23),(2,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(3,10,22),(3,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(3,10,23),(2,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,5,10),(1,3,6)); lvl=3; h,r-ind=1,1
      [5,3]((1,5,9),(2,7,14),(2,9,16),(3,12,22),(3,11,21)); lvl=3; h,r-ind=1,1
        [3,3]((2,8,15),(3,12,22),(3,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,14),(2,8,15),(3,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(2,7,14),(2,8,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,15),(2,9,16),(3,12,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(2,8,15),(2,9,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,10),(1,5,9),(2,7,14),(1,4,9)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((1,5,9),(1,4,8),(2,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(1,4,8),(2,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(1,5,9),(1,4,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(1,4,9),(1,4,8)); lvl=4; h,r-ind=1,1
      [5,3]((2,7,14),(3,10,21),(3,10,22),(1,4,9),(2,7,16)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,15),(3,10,22),(2,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,15),(1,4,9),(2,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,14),(2,7,15),(1,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,15),(3,10,21),(3,10,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,14),(2,7,15),(3,10,21)); lvl=4; h,r-ind=1,1
```

```
  [3,3]((1,4,9),(2,7,17),(2,7,16)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,7),(2,10,17),(2,9,16),(3,12,22)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,17),(3,13,23),(2,9,16)); lvl=4; h,r-ind=1,1
    [3,3]((3,12,22),(3,13,23),(2,9,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(2,10,17),(3,13,23)); lvl=4; h,r-ind=1,1
    [3,3]((3,12,22),(1,4,7),(3,13,23)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,9),(2,10,17),(2,9,16)); lvl=3; h,r-ind=1,1
[3,3]((1,3,8),(1,3,7),(2,7,17)); lvl=2; h,r-ind=1,1
[5,3]((1,2,6),(1,2,5),(2,5,10),(1,3,8),(1,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,7),(2,5,10),(2,5,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,5),(2,5,10),(2,5,11)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,12),(4,11,27),(1,3,7),(2,5,11)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((3,8,19),(4,11,27),(1,3,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,11),(3,8,19),(1,3,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,12),(2,5,11),(3,8,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,12),(3,8,19),(4,11,27)); lvl=4; h,r-ind=1,1
  [4,3]((4,9,23),(2,5,12),(1,2,5),(2,5,11)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((2,5,12),(2,5,11),(3,7,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(2,5,11),(3,7,17)); lvl=4; h,r-ind=1,1
    [3,3]((4,9,23),(2,5,12),(3,7,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(4,9,23),(3,7,17)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,6),(4,9,23),(1,2,5)); lvl=3; h,r-ind=1,1
  [3,3]((4,11,27),(1,3,8),(1,3,7)); lvl=3; h,r-ind=1,1
  [5,3]((1,2,6),(4,9,23),(2,5,12),(4,11,27),(1,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,18),(2,5,12),(4,9,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,6),(3,7,18),(4,9,23)); lvl=4; h,r-ind=1,1
    [4,3]((3,7,18),(5,12,31),(2,5,12),(4,10,25)); lvl=4; h,r-ind=1,1
      [3,3]((7,17,43),(4,10,25),(2,5,12)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,18),(7,17,43),(2,5,12)); lvl=5; h,r-ind=1,1
      [3,3]((5,12,31),(7,17,43),(4,10,25)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,18),(5,12,31),(7,17,43)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,6),(3,7,18),(5,12,31)); lvl=4; h,r-ind=1,1
    [4,3]((5,12,31),(2,5,13),(5,13,33),(4,10,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(5,13,33),(6,15,38)); lvl=5; h,r-ind=1,1
      [3,3]((4,10,25),(5,13,33),(6,15,38)); lvl=5; h,r-ind=1,1
      [3,3]((5,12,31),(2,5,13),(6,15,38)); lvl=5; h,r-ind=1,1
      [3,3]((4,10,25),(5,12,31),(6,15,38)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,8),(5,13,33),(3,8,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,8),(2,5,13),(5,13,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,6),(1,3,8),(2,5,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,6),(5,12,31),(2,5,13)); lvl=4; h,r-ind=1,1
    [4,3]((5,13,33),(2,5,12),(4,10,25),(3,8,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(4,10,25),(7,18,45)); lvl=5; h,r-ind=1,1
      [3,3]((5,13,33),(4,10,25),(7,18,45)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,20),(5,13,33),(7,18,45)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,20),(2,5,12),(7,18,45)); lvl=5; h,r-ind=1,1
    [3,3]((2,5,12),(3,8,20),(4,11,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,8),(3,8,20),(4,11,27)); lvl=4; h,r-ind=1,1
[3,3]((1,2,6),(2,5,15),(1,3,8)); lvl=2; h,r-ind=1,1
[3,3]((1,2,6),(2,3,9),(1,2,5)); lvl=2; h,r-ind=1,1
[4,3]((1,0,0),(2,3,9),(1,2,5),(2,5,10)); lvl=2; h,r-ind=1,1
  [5,3]((2,5,10),(1,2,4),(1,2,5),(6,10,25),(3,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((6,11,26),(5,9,21),(1,2,4),(2,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(5,9,21),(7,13,30)); lvl=5; h,r-ind=1,1
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    [3,3]((5,9,21),(3,5,12),(1,2,4)); lvl=4; h,r-ind=1,1
    [4,3]((4,7,17),(6,11,26),(5,9,21),(3,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((6,11,26),(9,16,38),(5,9,21)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,12),(9,16,38),(5,9,21)); lvl=5; h,r-ind=1,1
      [3,3]((4,7,17),(6,11,26),(9,16,38)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,12),(4,7,17),(9,16,38)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,5),(4,7,17),(6,11,26)); lvl=4; h,r-ind=1,1
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    [3,3]((1,2,5),(6,10,25),(4,7,17)); lvl=4; h,r-ind=1,1
  [5,3]((2,3,7),(1,1,3),(2,3,8),(6,10,25),(3,5,12)); lvl=3; h,r-ind=1,1
    [5,3]((2,3,7),(6,9,23),(9,14,35),(1,1,3),(7,11,27)); lvl=4; h,r-ind=1,1
      [3,3]((9,14,35),(4,6,15),(7,11,27)); lvl=5; h,r-ind=1,1
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      [3,3]((2,3,7),(1,1,3),(4,6,15)); lvl=5; h,r-ind=1,1
    [4,3]((3,5,12),(5,8,20),(9,14,35),(7,11,27)); lvl=4; h,r-ind=1,1
      [3,3]((5,8,20),(9,14,35),(12,19,47)); lvl=5; h,r-ind=1,1
      [3,3]((7,11,27),(9,14,35),(12,19,47)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,12),(5,8,20),(12,19,47)); lvl=5; h,r-ind=1,1
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      [3,3]((7,11,27),(3,5,12),(12,19,47)); lvl=5; h,r-ind=1,1
    [3,3]((2,3,7),(3,5,12),(7,11,27)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,12),(6,10,25),(5,8,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,8),(6,9,23),(1,1,3)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,8),(5,8,20),(6,9,23),(9,14,35)); lvl=4; h,r-ind=1,1
      [3,3]((11,17,43),(9,14,35),(5,8,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,8),(11,17,43),(5,8,20)); lvl=5; h,r-ind=1,1
      [3,3]((6,9,23),(11,17,43),(9,14,35)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,8),(6,9,23),(11,17,43)); lvl=5; h,r-ind=1,1
    [3,3]((2,3,8),(6,10,25),(5,8,20)); lvl=4; h,r-ind=1,1
  [4,3]((1,2,4),(2,3,6),(2,3,7),(3,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,11),(2,3,6),(2,3,7)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,12),(3,5,11),(2,3,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,12),(3,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,11),(2,3,6)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,6),(2,3,7),(1,1,3)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(4,5,12),(2,3,6),(2,3,7)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,6),(3,4,9),(2,3,7)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,12),(3,4,9),(2,3,7)); lvl=5; h,r-ind=1,1
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      [3,3]((4,5,12),(1,1,2),(3,4,9)); lvl=5; h,r-ind=1,1
    [3,3]((1,1,3),(4,5,12),(2,3,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(1,1,3),(4,5,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(1,0,0),(1,1,3)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,9),(2,3,8),(1,2,5),(6,10,25)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,8),(6,10,25),(3,5,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(6,10,25),(3,5,13)); lvl=4; h,r-ind=1,1
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[5,3]((1,5,8),(1,4,7),(2,5,10),(1,4,6),(1,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,12),(4,14,23),(2,6,11),(1,3,5)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((1,3,5),(2,6,11),(3,10,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,12),(2,6,11),(3,10,17)); lvl=4; h,r-ind=1,1
    [3,3]((4,14,23),(1,3,5),(3,10,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,12),(4,14,23),(3,10,17)); lvl=4; h,r-ind=1,1
  [3,3]((2,5,10),(2,6,11),(1,3,5)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,7),(2,5,10),(2,6,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,6),(4,14,23),(1,3,5)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,7),(4,16,27),(2,7,12),(2,6,11)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((3,11,19),(4,16,27),(2,7,12)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,11),(3,11,19),(2,7,12)); lvl=4; h,r-ind=1,1
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    [3,3]((1,4,6),(4,14,23),(3,11,18)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,12),(4,15,25),(5,19,31),(3,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((5,19,31),(4,15,25),(7,26,43)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,12),(4,15,25),(7,26,43)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,18),(2,7,12),(7,26,43)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,18),(5,19,31),(7,26,43)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,6),(5,19,31),(3,11,18)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,12),(5,20,33),(3,12,20),(4,15,25)); lvl=4; h,r-ind=1,1
      [3,3]((7,27,45),(5,20,33),(3,12,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,12),(7,27,45),(3,12,20)); lvl=5; h,r-ind=1,1
      [3,3]((4,15,25),(7,27,45),(5,20,33)); lvl=5; h,r-ind=1,1
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    [3,3]((4,16,27),(2,7,12),(3,12,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(4,16,27),(3,12,20)); lvl=4; h,r-ind=1,1
    [4,3]((5,20,33),(2,8,13),(4,15,25),(5,19,31)); lvl=4; h,r-ind=1,1
      [3,3]((6,23,38),(2,8,13),(5,19,31)); lvl=5; h,r-ind=1,1
      [3,3]((4,15,25),(6,23,38),(5,19,31)); lvl=5; h,r-ind=1,1
      [3,3]((5,20,33),(6,23,38),(2,8,13)); lvl=5; h,r-ind=1,1
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[3,3]((1,4,6),(1,3,5),(2,6,9)); lvl=2; h,r-ind=1,1
[4,3]((1,0,0),(2,5,10),(1,3,5),(2,6,9)); lvl=2; h,r-ind=1,1
  [5,3]((1,3,5),(1,2,4),(3,7,12),(6,15,25),(2,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((4,10,17),(6,15,25),(1,3,5)); lvl=4; h,r-ind=1,1
    [3,3]((4,10,17),(6,15,26),(1,3,5)); lvl=4; h,r-ind=1,1
    [3,3]((6,15,26),(2,5,9),(1,3,5)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,10),(2,5,9),(1,3,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,10),(2,5,9)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(5,12,21),(6,15,26),(2,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,21),(6,15,26),(7,17,30)); lvl=5; h,r-ind=1,1
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          [3,3]((2,5,9),(6,15,26),(7,17,30)); lvl=5; h,r-ind=1,1
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          [3,3]((9,22,38),(6,15,26),(4,10,17)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,12),(9,22,38),(4,10,17)); lvl=5; h,r-ind=1,1
          [3,3]((5,12,21),(3,7,12),(9,22,38)); lvl=5; h,r-ind=1,1
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        [3,3]((1,3,5),(3,8,13),(6,15,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(3,8,13),(6,15,25)); lvl=4; h,r-ind=1,1
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        [3,3]((2,3,6),(3,6,11),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(3,6,11),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(3,7,12),(3,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(2,3,6),(3,6,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(1,0,0),(2,3,6),(2,4,7)); lvl=3; h,r-ind=1,1
        [4,3]((2,4,7),(4,7,12),(2,3,6),(1,1,2)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,9),(1,1,2),(4,7,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,7),(3,5,9),(4,7,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,6),(3,5,9),(1,1,2)); lvl=5; h,r-ind=1,1
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        [3,3]((1,2,3),(4,7,12),(1,1,2)); lvl=4; h,r-ind=1,1
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        [3,3]((1,2,3),(2,4,7),(4,7,12)); lvl=4; h,r-ind=1,1
      [5,3]((1,2,3),(3,7,12),(2,4,7),(6,15,25),(2,5,8)); lvl=3; h,r-ind=1,1
        [4,3]((9,21,35),(6,14,23),(2,5,8),(5,12,20)); lvl=4; h,r-ind=1,1
          [3,3]((11,26,43),(2,5,8),(6,14,23)); lvl=5; h,r-ind=1,1
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          [3,3]((9,21,35),(5,12,20),(11,26,43)); lvl=5; h,r-ind=1,1
        [3,3]((6,15,25),(2,5,8),(5,12,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(6,15,25),(5,12,20)); lvl=4; h,r-ind=1,1
        [4,3]((3,7,12),(9,21,35),(7,16,27),(5,12,20)); lvl=4; h,r-ind=1,1
          [3,3]((12,28,47),(9,21,35),(7,16,27)); lvl=5; h,r-ind=1,1
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          [3,3]((2,4,7),(4,9,15),(1,2,3)); lvl=5; h,r-ind=1,1
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          [3,3]((7,16,27),(4,9,15),(9,21,35)); lvl=5; h,r-ind=1,1
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        [3,3]((3,7,12),(2,4,7),(7,16,27)); lvl=4; h,r-ind=1,1
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      [3,3]((2,6,9),(1,2,3),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,15),(1,5,8),(1,4,6)); lvl=2; h,r-ind=1,1
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  [3,3]((0,1,0),(1,5,10),(2,10,15)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,5,15),(0,1,0),(1,5,10)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,10,15)); lvl=1; h,r-ind=15,45
    [5,3]((1,5,7),(2,6,9),(1,3,3),(1,4,6),(1,4,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,6),(1,5,7),(2,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,7),(2,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,5),(2,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,4),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,4,5),(1,4,4)); lvl=3; h,r-ind=1,1
      [4,3]((2,6,9),(1,3,4),(1,4,6),(2,8,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,10),(1,4,6),(2,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,10),(2,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,9),(2,7,10),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,6,9),(2,7,10)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,7),(1,4,4)); lvl=2; h,r-ind=3,9; optimized-h
    [3,3]((2,10,15),(1,5,7),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,10,15),(1,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,6,9),(1,3,3)); lvl=2; h,r-ind=9,3; optimized-h
    [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,5,15),(2,5,15),(1,5,10)); lvl=1; h,r-ind=25,5; alert-h-inc
    [5,3]((1,5,15),(2,10,25),(2,7,21),(2,7,20),(4,15,40)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,11),(2,8,21),(3,11,30),(4,15,40)); lvl=3; h,r-ind=1,1
        [3,3]((2,8,21),(4,15,40),(5,19,51)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,30),(4,15,40),(5,19,51)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,11),(2,8,21),(5,19,51)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((3,11,30),(1,4,11),(5,19,51)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(2,8,21),(4,17,44)); lvl=3; h,r-ind=1,1
      [4,3]((2,10,25),(1,5,13),(1,4,11),(4,17,44)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,13),(1,4,11),(4,18,47)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,23),(1,4,11),(4,18,47)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,23),(4,17,44),(1,4,11)); lvl=4; h,r-ind=1,1
        [4,3]((2,10,25),(2,9,23),(1,5,13),(4,18,47)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,36),(4,18,47),(2,9,23)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,25),(3,14,36),(2,9,23)); lvl=5; h,r-ind=1,1
          [3,3]((3,14,36),(1,5,13),(4,18,47)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,25),(3,14,36),(1,5,13)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,27),(1,5,13),(1,4,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,12),(1,5,15),(2,10,27),(1,4,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,11),(2,10,27),(1,5,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,11),(3,13,37),(1,5,14)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,12),(1,5,15),(3,13,37),(1,5,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,26),(1,5,15),(1,5,14)); lvl=5; h,r-ind=1,1
          [3,3]((3,13,37),(2,9,26),(1,5,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,12),(3,13,37),(2,9,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,12),(2,9,26),(1,5,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,11),(1,4,12),(3,13,37)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(2,7,20),(3,11,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,11),(2,7,21),(2,7,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,12),(1,4,11),(2,7,21)); lvl=3; h,r-ind=1,1
    [5,3]((1,3,8),(2,7,18),(1,3,9),(2,7,20),(4,15,40)); lvl=2; h,r-ind=1,1
      [4,3]((4,15,40),(3,11,29),(2,7,19),(3,11,30)); lvl=3; h,r-ind=1,1
        [3,3]((3,11,29),(2,7,19),(6,22,59)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,30),(2,7,19),(6,22,59)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,40),(3,11,30),(6,22,59)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,40),(3,11,29),(6,22,59)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,20),(2,7,19),(3,11,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,9),(2,7,20),(2,7,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(1,3,9),(2,7,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,18),(3,11,29),(2,7,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(2,7,18),(2,7,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(2,5,15),(1,3,9)); lvl=2; h,r-ind=1,1
    [5,3]((1,5,10),(2,7,17),(2,7,18),(2,10,25),(4,15,40)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,10),(2,8,21),(3,11,29),(4,15,40)); lvl=3; h,r-ind=1,1
        [3,3]((2,8,21),(4,15,40),(5,19,50)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,29),(4,15,40),(5,19,50)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(2,8,21),(5,19,50)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,29),(1,4,10),(5,19,50)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,18),(1,4,10),(3,11,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,17),(2,7,18),(1,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,17),(1,4,9),(1,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,10),(4,17,44),(2,8,21)); lvl=3; h,r-ind=1,1
      [4,3]((2,10,25),(1,5,12),(1,4,10),(4,17,44)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,12),(4,18,45),(1,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,23),(4,18,45),(1,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,23),(4,17,44),(1,4,10)); lvl=4; h,r-ind=1,1
        [4,3]((2,10,25),(2,9,23),(1,5,12),(4,18,45)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,23),(4,18,45),(3,14,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(4,18,45),(3,14,35)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,25),(2,9,23),(3,14,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(2,10,25),(3,14,35)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,23),(1,5,12),(1,4,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,10),(1,4,9),(2,10,23),(1,4,10)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,9),(1,4,10),(3,13,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,11),(1,4,10),(3,13,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,23),(1,5,11),(1,4,10)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,10),(1,5,11),(1,4,9),(3,13,30)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,20),(1,5,11),(3,13,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,9),(2,9,20),(3,13,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(2,9,20),(1,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,9),(1,5,10),(2,9,20)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,8),(2,7,17),(2,7,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,9),(2,7,21),(2,7,20)); lvl=2; h,r-ind=1,1
```

15.12 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,6,15)); lvl=0; h,r-ind=15,75
  [5,3]((1,3,6),(2,6,9),(2,12,15),(1,6,9),(2,9,18)); lvl=1; h,r-ind=9,3
    [4,3]((2,9,12),(2,9,13),(2,6,9),(1,3,5)); lvl=2; h,r-ind=3,1
      [4,3]((2,6,9),(4,15,21),(1,4,6),(1,3,5)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,10),(4,15,21),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,21),(2,7,10),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,14,21),(1,4,6)); lvl=4; h,r-ind=1,1
```

```
      [4,3]((2,6,9),(1,3,5),(4,14,21),(2,7,10)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,5),(3,10,15),(4,14,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,10),(3,10,15),(4,14,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,9),(1,3,5),(3,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,10),(2,6,9),(3,10,15)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,12),(4,15,21),(1,4,6)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((2,9,12),(2,9,13),(1,4,6)); lvl=3; h,r-ind=1,1
  [3,3]((4,18,29),(2,9,13),(1,3,5)); lvl=2; h,r-ind=9,3; optimized-h
  [5,3]((1,4,8),(1,3,6),(4,18,29),(2,9,15),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,7),(1,3,5),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(1,4,7),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(1,3,5),(5,21,34)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,18,29),(1,4,7),(5,21,34)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,9,15),(4,18,29),(1,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(2,9,15),(1,4,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,8),(2,9,15),(1,5,9)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
  [3,3]((1,4,8),(2,9,18),(1,5,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,8),(4,18,29),(2,9,13)); lvl=2; h,r-ind=9,3; optimized-h
  [5,3]((1,6,8),(4,18,29),(2,9,15),(1,5,9),(1,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,8),(2,9,15),(4,18,29)); lvl=3; h,r-ind=1,1
    [3,3]((5,24,37),(1,5,8),(4,18,29)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,6,8),(5,24,37),(1,5,8)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,6,8),(1,5,8),(1,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(2,9,15),(1,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(1,6,9),(1,5,9)); lvl=3; h,r-ind=1,1
  [4,3]((2,12,15),(1,6,8),(2,9,12),(2,9,13)); lvl=2; h,r-ind=3,1
    [3,3]((1,5,7),(2,9,12),(2,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((4,21,27),(1,5,7),(2,9,12)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((4,21,27),(2,12,15),(1,5,7),(1,6,8)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,14),(4,22,29),(1,6,8),(2,12,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,22,29),(1,6,8),(3,17,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,15),(1,6,8),(3,17,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,14),(2,12,15),(3,17,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,14),(4,22,29),(3,17,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,14),(4,22,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(4,21,27),(2,11,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(4,22,29),(1,6,8)); lvl=4; h,r-ind=1,1
[3,3]((1,6,15),(1,6,9),(2,9,18)); lvl=1; h,r-ind=18,6; alert-h-inc
  [4,3]((1,6,12),(1,5,10),(1,5,11),(1,6,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,10),(4,21,45),(1,5,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,12,27),(1,6,15),(4,21,45),(1,5,11)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((5,27,60),(1,5,11),(1,6,14),(1,6,15)); lvl=4; h,r-ind=1,3
        [3,3]((1,6,14),(1,6,15),(2,11,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,11),(1,6,15),(2,11,25)); lvl=5; h,r-ind=1,1
        [3,3]((5,27,60),(1,6,14),(2,11,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,11),(5,27,60),(2,11,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,24),(5,27,60),(1,6,14)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,11,24),(2,12,27),(1,6,14)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,24),(5,27,60),(4,21,45),(1,5,11)); lvl=4; h,r-ind=1,3
        [3,3]((3,16,35),(5,27,60),(1,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,45),(3,16,35),(1,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,24),(4,21,45),(3,16,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,24),(3,16,35),(5,27,60)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,12),(2,12,27),(1,5,10),(4,21,45)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,5,10),(4,21,45),(5,27,57),(2,11,24)); lvl=4; h,r-ind=1,3
        [3,3]((4,21,45),(3,16,34),(2,11,24)); lvl=5; h,r-ind=1,1
        [3,3]((5,27,57),(3,16,34),(2,11,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(5,27,57),(3,16,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(4,21,45),(3,16,34)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,13),(5,27,57),(2,11,24)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((1,6,13),(2,12,27),(2,11,24)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,10),(1,6,12),(1,6,13),(5,27,57)); lvl=4; h,r-ind=1,3
        [3,3]((2,11,23),(1,6,12),(1,6,13)); lvl=5; h,r-ind=1,1
        [3,3]((5,27,57),(2,11,23),(1,6,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(5,27,57),(2,11,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(2,11,23),(1,6,12)); lvl=5; h,r-ind=1,1
  [4,3]((1,6,9),(1,5,9),(1,6,12),(1,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,9),(4,21,39),(1,5,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,12,21),(1,6,12),(4,21,39),(1,5,10)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,6,11),(5,27,51),(1,5,10),(1,6,12)); lvl=4; h,r-ind=1,3
        [3,3]((2,11,21),(5,27,51),(1,5,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,12),(2,11,21),(1,5,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(1,6,12),(2,11,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(2,11,21),(5,27,51)); lvl=5; h,r-ind=1,1
      [4,3]((5,27,51),(2,11,20),(4,21,39),(1,5,10)); lvl=4; h,r-ind=1,3
        [3,3]((3,16,30),(2,11,20),(4,21,39)); lvl=5; h,r-ind=1,1
        [3,3]((3,16,30),(1,5,10),(4,21,39)); lvl=5; h,r-ind=1,1
        [3,3]((5,27,51),(3,16,30),(1,5,10)); lvl=5; h,r-ind=1,1
        [3,3]((5,27,51),(3,16,30),(2,11,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,11),(5,27,51),(2,11,20)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
```

```
      [3,3]((1,6,11),(2,12,21),(2,11,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,9),(2,12,21),(1,5,9),(4,21,39)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,5,9),(5,27,48),(2,11,20),(4,21,39)); lvl=4; h,r-ind=1,3
        [3,3]((3,16,29),(5,27,48),(2,11,20)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,39),(3,16,29),(2,11,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(4,21,39),(3,16,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(3,16,29),(5,27,48)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(5,27,48),(2,11,20)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,5,9),(1,6,9),(1,6,10),(5,27,48)); lvl=4; h,r-ind=1,3
        [3,3]((2,11,19),(1,6,10),(1,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(2,11,19),(1,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((5,27,48),(2,11,19),(1,6,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(5,27,48),(2,11,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(2,11,20),(2,12,21)); lvl=4; h,r-ind=1,1
  [3,3]((2,9,18),(1,5,9),(1,5,10)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,18),(1,5,10),(1,5,11)); lvl=2; h,r-ind=1,1
[4,3]((1,6,15),(1,3,6),(2,6,15),(2,9,18)); lvl=1; h,r-ind=9,3
  [4,3]((1,4,8),(2,9,21),(1,3,7),(1,3,6)); lvl=2; h,r-ind=1,3
    [3,3]((1,4,9),(2,9,21),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(1,3,6),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(1,4,9),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(1,4,9),(2,9,21)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,21),(1,4,10),(1,3,7)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
  [3,3]((2,6,15),(1,4,10),(1,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,15),(2,9,21),(1,4,10)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,5,11),(1,4,8),(2,9,21)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
  [3,3]((1,5,11),(2,9,18),(1,4,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,15),(1,5,11),(2,9,21)); lvl=2; h,r-ind=3,3; optimized-h
[3,3]((1,0,0),(1,3,6),(2,6,15)); lvl=1; h,r-ind=9,3; optimized-h
[3,3]((1,0,0),(1,3,6),(2,6,9)); lvl=1; h,r-ind=9,3; optimized-h
[4,3]((0,1,0),(1,0,0),(2,6,9),(2,12,15)); lvl=1; h,r-ind=3,3
  [4,3]((2,9,12),(2,9,11),(2,6,9),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,12),(4,15,21),(1,4,5),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,20),(3,11,15),(2,7,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,5),(4,15,20),(7,27,36),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((7,27,36),(5,19,25),(4,15,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,9),(5,19,25),(4,15,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,9),(5,19,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(7,27,36),(5,19,25)); lvl=5; h,r-ind=1,1
      [4,3]((2,8,11),(2,9,12),(1,4,5),(7,27,36)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,12,16),(1,4,5),(2,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,11),(3,12,16),(2,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((7,27,36),(3,12,16),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,11),(7,27,36),(3,12,16)); lvl=5; h,r-ind=1,1
      [4,3]((2,8,11),(4,15,20),(7,27,36),(3,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((7,27,36),(4,15,20),(6,23,31)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,15),(4,15,20),(6,23,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,11),(3,11,15),(6,23,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,11),(7,27,36),(6,23,31)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,11),(3,11,15),(4,15,21)); lvl=4; h,r-ind=1,1
    [4,3]((2,6,9),(4,15,21),(1,2,3),(2,7,9)); lvl=3; h,r-ind=3,1; alert-h-inc
      [3,3]((2,7,10),(3,11,15),(4,15,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,10),(1,3,4),(3,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(3,11,15)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,10),(2,6,9),(1,3,4),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,13),(1,2,3),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,10),(3,9,13),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(3,9,13),(1,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,10),(1,3,4),(3,9,13)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,12),(2,9,11),(1,4,5)); lvl=3; h,r-ind=1,1
  [4,3]((2,9,11),(1,2,2),(1,4,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,9),(1,2,3),(1,2,2),(1,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(1,3,4),(1,2,2),(3,8,9)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,6),(3,8,9),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(2,5,6),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,6),(1,2,2),(3,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(2,5,6),(1,2,2)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(3,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,3,4),(3,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,9),(1,3,4)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,5),(2,7,9),(1,4,4),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(1,3,3),(2,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,8),(2,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,4),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(2,7,8),(1,3,3)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,11),(1,4,5),(1,4,4)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,2),(1,0,0),(1,2,3)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,4,4)); lvl=2; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(2,9,11),(1,6,7),(1,4,4)); lvl=2; h,r-ind=3,3
```

```
      [4,3]((1,4,4),(3,14,15),(1,5,6),(2,9,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,6),(2,9,10),(3,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(2,9,10),(3,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,11),(1,4,4),(2,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,11),(1,5,6),(2,9,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,5),(2,11,11),(3,14,15),(1,5,6)); lvl=3; h,r-ind=1,1
        [3,3]((2,10,11),(1,5,6),(2,11,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(2,10,11),(2,11,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(3,14,15),(2,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,15),(2,10,11),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(1,5,5),(3,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(2,11,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(0,1,0),(1,5,5)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(2,11,11),(1,5,6),(1,6,7)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,11),(1,6,6),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(1,6,6),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,6,7),(1,6,6)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,11,11),(1,6,6)); lvl=4; h,r-ind=1,1
    [4,3]((2,12,15),(2,9,12),(2,9,11),(1,6,7)); lvl=2; h,r-ind=3,1
      [3,3]((1,5,6),(2,9,12),(2,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,21,27),(1,5,6),(2,9,12)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((2,12,15),(4,21,27),(1,6,7),(1,5,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,6),(2,11,14),(4,21,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,22,27),(1,5,6),(2,11,14)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,7),(2,12,15),(4,22,27),(2,11,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,17,21),(4,22,27),(2,11,14)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,15),(3,17,21),(2,11,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(2,12,15),(3,17,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(3,17,21),(4,22,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(4,22,27),(1,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(2,12,15),(1,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,12,15),(1,6,9)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,6,15),(0,1,0),(1,6,9)); lvl=1; h,r-ind=6,6; optimized-h
```

15.13 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,7,15)); lvl=0; h,r-ind=15,225
  [4,3]((0,1,0),(2,14,15),(2,2,3),(1,0,0)); lvl=1; h,r-ind=3,3
    [4,3]((1,4,4),(1,1,1),(2,8,9),(2,2,3)); lvl=2; h,r-ind=3,1
      [4,3]((2,5,5),(2,5,6),(1,1,1),(2,2,3)); lvl=3; h,r-ind=3,1
        [4,3]((1,2,2),(1,1,1),(4,7,9),(2,2,3)); lvl=4; h,r-ind=1,1
          [4,3]((4,6,7),(2,3,4),(2,2,3),(1,1,1)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=6; h,r-ind=1,1
            [3,3]((4,6,7),(2,3,4),(3,4,5)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,1),(4,6,7),(3,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,2),(4,6,7),(1,1,1)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(4,6,7),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(2,3,4),(4,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,6),(1,2,2),(4,7,9)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
        [3,3]((2,5,6),(2,5,5),(1,2,2)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,4),(2,5,5),(2,8,9),(2,5,6)); lvl=3; h,r-ind=3,1
        [3,3]((1,3,3),(2,5,6),(2,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(4,13,15),(2,5,6)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
        [4,3]((1,4,4),(1,3,3),(2,8,9),(4,13,15)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,3),(2,7,8),(4,13,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,15),(1,3,3),(2,7,8)); lvl=5; h,r-ind=1,1
          [4,3]((1,4,4),(2,8,9),(4,14,15),(2,7,8)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,11,12),(4,14,15),(2,7,8)); lvl=6; h,r-ind=1,1
            [3,3]((2,8,9),(3,11,12),(2,7,8)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,4),(2,8,9),(3,11,12)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,4),(3,11,12),(4,14,15)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,4),(4,14,15),(1,3,3)); lvl=5; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,7),(1,4,4),(2,14,15),(2,8,9)); lvl=2; h,r-ind=3,1
      [4,3]((2,11,11),(2,11,12),(1,4,4),(2,8,9)); lvl=3; h,r-ind=3,1
        [4,3]((1,5,5),(1,4,4),(4,19,21),(2,8,9)); lvl=4; h,r-ind=1,1
          [4,3]((2,9,10),(1,4,4),(2,8,9),(4,18,19)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,13,14),(1,4,4),(2,8,9)); lvl=6; h,r-ind=1,1
            [3,3]((2,9,10),(3,13,14),(2,8,9)); lvl=6; h,r-ind=1,1
            [3,3]((4,18,19),(3,13,14),(1,4,4)); lvl=6; h,r-ind=1,1
            [3,3]((2,9,10),(4,18,19),(3,13,14)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,5),(2,9,10),(4,18,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(2,9,10),(4,19,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(1,4,4),(4,18,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,12),(1,5,5),(4,19,21)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
        [3,3]((2,11,12),(2,11,11),(1,5,5)); lvl=4; h,r-ind=1,1
```

```
    [4,3]((1,7,7),(2,11,11),(2,14,15),(2,11,12)); lvl=3; h,r-ind=3,1
      [3,3]((1,6,6),(2,11,12),(2,11,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(4,25,27),(2,11,12)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((1,7,7),(1,6,6),(2,14,15),(4,25,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(2,13,14),(4,25,27)); lvl=5; h,r-ind=1,1
        [3,3]((4,26,27),(1,6,6),(2,13,14)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,7),(2,14,15),(4,26,27),(2,13,14)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,20,21),(4,26,27),(2,13,14)); lvl=6; h,r-ind=1,1
          [3,3]((2,14,15),(3,20,21),(2,13,14)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,7),(2,14,15),(3,20,21)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,7),(3,20,21),(4,26,27)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,7),(4,26,27),(1,6,6)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(1,7,7),(2,14,15)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,7,7),(1,4,4)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,4,4),(1,1,1)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
[3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
[3,3]((1,7,15),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
[5,3]((1,4,8),(1,1,2),(1,7,8),(2,14,15),(2,2,3)); lvl=1; h,r-ind=3,1
  [4,3]((1,2,3),(2,8,9),(1,4,5),(2,2,3)); lvl=2; h,r-ind=2,1
    [4,3]((1,4,5),(1,3,4),(2,8,9),(2,5,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(5,17,21),(4,13,15),(2,5,6)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,6,7),(3,10,12),(4,13,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,7),(7,22,27),(3,10,12)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,3,4),(7,22,27),(5,17,21),(3,10,12)); lvl=5; h,r-ind=1,3
          [3,3]((4,13,16),(3,10,12),(7,22,27)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(4,13,16),(7,22,27)); lvl=6; h,r-ind=1,1
          [3,3]((5,17,21),(4,13,16),(3,10,12)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(5,17,21),(4,13,16)); lvl=6; h,r-ind=1,1
        [4,3]((1,3,4),(2,6,7),(2,5,6),(7,22,27)); lvl=5; h,r-ind=1,3
          [3,3]((3,9,11),(2,6,7),(2,5,6)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(3,9,11),(2,5,6)); lvl=6; h,r-ind=1,1
          [3,3]((7,22,27),(3,9,11),(2,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(7,22,27),(3,9,11)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,4),(5,17,21)); lvl=4; h,r-ind=1,1
      [4,3]((2,8,9),(1,4,5),(5,17,21),(4,13,15)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((3,10,12),(7,25,30),(1,4,5),(5,17,21)); lvl=5; h,r-ind=1,3
          [3,3]((4,14,17),(7,25,30),(1,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((5,17,21),(4,14,17),(1,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((3,10,12),(5,17,21),(4,14,17)); lvl=6; h,r-ind=1,1
          [3,3]((3,10,12),(4,14,17),(7,25,30)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,8),(3,10,12),(7,25,30)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((4,13,15),(2,7,8),(3,10,12)); lvl=5; h,r-ind=1,1
        [4,3]((2,8,9),(2,7,8),(7,25,30),(1,4,5)); lvl=5; h,r-ind=1,3
          [3,3]((2,7,8),(3,11,13),(7,25,30)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(3,11,13),(7,25,30)); lvl=6; h,r-ind=1,1
          [3,3]((2,8,9),(1,4,5),(3,11,13)); lvl=6; h,r-ind=1,1
          [3,3]((2,8,9),(2,7,8),(3,11,13)); lvl=6; h,r-ind=1,1
    [4,3]((1,2,3),(2,2,3),(1,3,4),(2,5,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(5,11,15),(2,5,6),(4,7,9)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,4,5),(4,7,9),(3,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(7,16,21),(3,6,8)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,3,4),(5,11,15),(7,16,21),(3,6,8)); lvl=5; h,r-ind=1,3
          [3,3]((3,6,8),(5,11,15),(4,9,12)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(5,11,15),(4,9,12)); lvl=6; h,r-ind=1,1
          [3,3]((7,16,21),(3,6,8),(4,9,12)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(7,16,21),(4,9,12)); lvl=6; h,r-ind=1,1
        [4,3]((1,3,4),(2,5,6),(2,4,5),(7,16,21)); lvl=5; h,r-ind=1,3
          [3,3]((3,7,9),(2,4,5),(2,5,6)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(3,7,9),(2,5,6)); lvl=6; h,r-ind=1,1
          [3,3]((7,16,21),(3,7,9),(2,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(7,16,21),(3,7,9)); lvl=6; h,r-ind=1,1
      [4,3]((1,2,3),(5,11,15),(2,2,3),(4,7,9)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,3,4),(3,6,8),(7,13,18)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,3),(5,11,15),(3,6,8),(7,13,18)); lvl=5; h,r-ind=1,3
          [3,3]((4,8,11),(5,11,15),(3,6,8)); lvl=6; h,r-ind=1,1
          [3,3]((7,13,18),(4,8,11),(3,6,8)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(7,13,18),(4,8,11)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(4,8,11),(5,11,15)); lvl=6; h,r-ind=1,1
        [4,3]((1,2,3),(2,2,3),(2,3,4),(7,13,18)); lvl=5; h,r-ind=1,3
          [3,3]((3,5,7),(2,3,4),(2,2,3)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(3,5,7),(2,2,3)); lvl=6; h,r-ind=1,1
          [3,3]((7,13,18),(3,5,7),(2,3,4)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(7,13,18),(3,5,7)); lvl=6; h,r-ind=1,1
        [3,3]((4,7,9),(2,3,4),(3,6,8)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(5,11,15)); lvl=4; h,r-ind=1,1
  [3,3]((1,1,2),(1,2,3),(2,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,5),(1,2,3),(1,4,5),(1,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,6),(3,10,15),(1,3,4),(1,4,5)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,10,15),(2,7,10),(1,3,4)); lvl=4; h,r-ind=1,1
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      [3,3]((1,4,5),(2,7,10),(1,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(3,10,15),(2,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,6),(2,7,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(1,4,6),(3,10,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,5),(3,10,15),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,3,4),(3,10,15),(2,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(3,10,15),(2,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(2,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,3),(2,6,9)); lvl=4; h,r-ind=1,1
  [4,3]((1,1,2),(2,5,10),(1,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,5),(2,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,7,12),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,12),(1,2,3),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(1,2,4),(3,7,12),(1,2,3)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,4),(3,7,12),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,12),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(2,4,7)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,8),(2,5,10),(1,3,5),(1,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,6),(4,13,23),(1,3,5),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,23),(1,3,5),(3,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,3,5),(3,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,12),(4,13,23),(3,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,12),(1,4,6),(3,10,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,7),(1,3,6),(4,13,23),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(4,13,23),(3,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,12),(4,13,23),(3,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,7,12),(3,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(1,3,6),(3,10,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(1,4,7),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(1,4,7),(1,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,6),(4,13,23),(2,5,10),(1,3,5)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((1,3,5),(2,6,11),(4,13,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,6,11),(4,13,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(1,3,5),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,10),(2,6,11)); lvl=4; h,r-ind=1,1
[4,3]((2,8,9),(1,4,5),(1,6,7),(2,14,15)); lvl=2; h,r-ind=2,1
  [4,3]((2,14,15),(2,11,12),(1,6,7),(1,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,12),(4,25,27),(1,5,6),(5,29,33)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,5,6),(3,18,20),(5,29,33),(7,40,45)); lvl=5; h,r-ind=1,3
        [3,3]((4,23,26),(3,18,20),(5,29,33)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,6),(4,23,26),(5,29,33)); lvl=6; h,r-ind=1,1
        [3,3]((7,40,45),(4,23,26),(3,18,20)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,6),(7,40,45),(4,23,26)); lvl=6; h,r-ind=1,1
      [4,3]((2,12,13),(2,11,12),(1,5,6),(7,40,45)); lvl=5; h,r-ind=1,3
        [3,3]((3,17,19),(1,5,6),(2,11,12)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,13),(3,17,19),(2,11,12)); lvl=6; h,r-ind=1,1
        [3,3]((7,40,45),(3,17,19),(1,5,6)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,13),(7,40,45),(3,17,19)); lvl=6; h,r-ind=1,1
      [3,3]((2,12,13),(3,18,20),(7,40,45)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,12,13),(4,25,27),(3,18,20)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,7),(1,5,6),(5,29,33)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,7),(2,14,15),(4,25,27),(5,29,33)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,18,20),(2,13,14),(4,25,27)); lvl=5; h,r-ind=1,1
      [3,3]((3,18,20),(7,43,48),(2,13,14)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,6,7),(2,14,15),(7,43,48),(2,13,14)); lvl=5; h,r-ind=1,3
        [3,3]((3,19,21),(2,14,15),(2,13,14)); lvl=6; h,r-ind=1,1
        [3,3]((7,43,48),(3,19,21),(2,13,14)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(7,43,48),(3,19,21)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(3,19,21),(2,14,15)); lvl=6; h,r-ind=1,1
      [4,3]((1,6,7),(5,29,33),(3,18,20),(7,43,48)); lvl=5; h,r-ind=1,3
        [3,3]((4,24,27),(3,18,20),(5,29,33)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(4,24,27),(5,29,33)); lvl=6; h,r-ind=1,1
        [3,3]((7,43,48),(4,24,27),(3,18,20)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(7,43,48),(4,24,27)); lvl=6; h,r-ind=1,1
  [4,3]((2,8,9),(2,11,12),(1,4,5),(1,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,12),(4,19,21),(1,5,6),(5,23,27)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,5,6),(7,34,39),(3,14,16),(5,23,27)); lvl=5; h,r-ind=1,3
        [3,3]((7,34,39),(4,19,22),(3,14,16)); lvl=6; h,r-ind=1,1
        [3,3]((5,23,27),(4,19,22),(3,14,16)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,6),(7,34,39),(4,19,22)); lvl=6; h,r-ind=1,1
        [3,3]((5,23,27),(1,5,6),(4,19,22)); lvl=6; h,r-ind=1,1
      [4,3]((2,10,11),(2,11,12),(1,5,6),(7,34,39)); lvl=5; h,r-ind=1,3
        [3,3]((1,5,6),(3,15,17),(2,11,12)); lvl=6; h,r-ind=1,1
        [3,3]((2,10,11),(3,15,17),(2,11,12)); lvl=6; h,r-ind=1,1
        [3,3]((7,34,39),(1,5,6),(3,15,17)); lvl=6; h,r-ind=1,1
        [3,3]((2,10,11),(7,34,39),(3,15,17)); lvl=6; h,r-ind=1,1
      [3,3]((2,10,11),(7,34,39),(3,14,16)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,10,11),(4,19,21),(3,14,16)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,5),(1,5,6),(5,23,27)); lvl=4; h,r-ind=1,1
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      [4,3]((1,4,5),(2,8,9),(4,19,21),(5,23,27)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,14,16),(4,19,21),(2,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((7,31,36),(3,14,16),(2,9,10)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,4,5),(2,8,9),(7,31,36),(2,9,10)); lvl=5; h,r-ind=1,3
          [3,3]((3,13,15),(2,9,10),(2,8,9)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(3,13,15),(2,8,9)); lvl=6; h,r-ind=1,1
          [3,3]((7,31,36),(3,13,15),(2,9,10)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(7,31,36),(3,13,15)); lvl=6; h,r-ind=1,1
        [4,3]((1,4,5),(5,23,27),(7,31,36),(3,14,16)); lvl=5; h,r-ind=1,3
          [3,3]((4,18,21),(3,14,16),(5,23,27)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(4,18,21),(5,23,27)); lvl=6; h,r-ind=1,1
          [3,3]((7,31,36),(4,18,21),(3,14,16)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(7,31,36),(4,18,21)); lvl=6; h,r-ind=1,1
  [3,3]((1,7,8),(1,6,7),(2,14,15)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,5),(1,5,7),(1,4,6),(1,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(1,5,7),(3,14,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,7),(1,5,6),(1,5,7),(3,14,19)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,10,13),(3,14,19),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,10,13),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(1,6,7),(2,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(2,10,13),(3,14,19)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,5),(1,5,6),(1,4,6),(3,14,19)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,6),(3,14,19),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(3,14,19),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,6),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,6),(2,9,12)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,8),(2,11,16),(1,5,7),(1,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,8),(1,5,7),(3,17,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,7),(1,5,7),(3,17,22)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,8),(1,6,7),(1,6,8),(3,17,22)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,12,15),(3,17,22),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(2,12,15),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(1,7,8),(2,12,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(2,12,15),(3,17,22)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,8),(2,11,16),(1,5,7)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,8),(2,11,16),(1,5,7),(1,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,8),(2,11,16),(1,5,7),(4,19,29)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,10,15),(2,11,16),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,29),(2,10,15),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(4,19,29),(2,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,10,15),(2,11,16)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,6),(2,9,14),(1,5,7),(4,19,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,14),(4,19,29),(3,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(4,19,29),(3,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,9,14),(3,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(1,4,6),(3,14,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(1,4,6),(2,9,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,7),(2,9,14),(1,5,8),(4,19,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,14),(3,14,22),(4,19,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(3,14,22),(4,19,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,9,14),(3,14,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(1,4,7),(3,14,22)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(1,4,7),(1,5,8)); lvl=3; h,r-ind=1,1
[3,3]((1,7,15),(1,4,8),(1,7,8)); lvl=1; h,r-ind=21,21; alert-h-inc
  [4,3]((2,11,20),(1,7,15),(2,11,22),(2,14,23)); lvl=2; h,r-ind=3,3
    [3,3]((1,6,12),(2,11,22),(1,7,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,13),(1,6,12),(2,12,23),(1,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,23),(1,6,12),(3,19,37)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,15),(1,7,14),(1,6,12),(3,19,37)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,7,14),(3,19,37),(2,13,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,12),(3,19,37),(2,13,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,15),(1,6,12),(2,13,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,15),(1,7,14),(2,13,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,13),(1,7,14),(3,19,37)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,7,13),(2,12,23),(3,19,37)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,6,11),(1,7,13),(1,7,12),(2,12,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,13),(1,7,12),(2,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(1,7,12),(2,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(2,12,23),(2,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,23),(1,7,13),(2,13,24)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,11),(4,25,43),(2,14,23),(1,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,11),(4,25,43),(2,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(4,26,45),(2,13,22)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,12),(4,26,45),(2,14,23),(2,13,22)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,20,34),(4,26,45),(2,13,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,23),(3,20,34),(2,13,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,12),(2,14,23),(3,20,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,12),(3,20,34),(4,26,45)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,12),(1,6,11),(4,26,45)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,20),(1,6,11),(4,25,43)); lvl=3; h,r-ind=3,3; optimized-h
```

```
  [4,3]((2,11,21),(1,6,12),(2,12,23),(2,11,22)); lvl=3; h,r-ind=1,1
    [3,3]((2,12,23),(3,17,33),(1,6,12)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,22),(3,17,33),(1,6,12)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,21),(2,11,22),(3,17,33)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,21),(2,12,23),(3,17,33)); lvl=4; h,r-ind=1,1
  [4,3]((2,11,20),(1,6,11),(2,11,21),(2,12,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,11),(2,12,23),(3,17,32)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,21),(2,12,23),(3,17,32)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,20),(1,6,11),(3,17,32)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,21),(2,11,20),(3,17,32)); lvl=4; h,r-ind=1,1
[4,3]((1,7,8),(2,11,16),(2,11,20),(2,14,23)); lvl=2; h,r-ind=3,1
  [4,3]((1,6,10),(2,12,19),(2,11,20),(2,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,18),(4,23,38),(2,11,19)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,6,10),(2,11,20),(4,23,38),(2,11,19)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,11,20),(3,17,29),(2,11,19)); lvl=5; h,r-ind=1,1
      [3,3]((4,23,38),(3,17,29),(2,11,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(2,11,20),(3,17,29)); lvl=5; h,r-ind=1,1
      [3,3]((4,23,38),(1,6,10),(3,17,29)); lvl=5; h,r-ind=1,1
    [3,3]((2,12,19),(1,6,10),(4,23,38)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,19),(2,11,18),(4,23,38)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,6,8),(2,12,19),(2,11,16),(2,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,9),(2,11,18),(2,11,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,8),(1,6,9),(2,11,16),(2,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,16),(2,11,17),(3,17,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(2,11,17),(3,17,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,16),(3,17,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(1,6,8),(3,17,25)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,9),(2,12,19),(2,11,18)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,10),(1,7,8),(1,6,8),(2,12,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,9),(1,6,9),(1,7,8),(1,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(1,6,8),(2,13,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,8),(1,6,8),(2,13,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(1,6,9),(2,13,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,8),(1,7,9),(2,13,17)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,10),(1,7,9),(1,6,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(2,12,19),(1,6,9)); lvl=4; h,r-ind=1,1
  [3,3]((4,25,43),(1,6,10),(2,11,20)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
  [4,3]((2,14,23),(1,7,11),(4,25,43),(1,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((4,26,43),(1,6,10),(1,7,11)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,22),(2,14,23),(4,26,43),(1,7,11)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,7,11),(3,20,33),(2,14,23)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,22),(3,20,33),(2,14,23)); lvl=5; h,r-ind=1,1
      [3,3]((4,26,43),(1,7,11),(3,20,33)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,22),(4,26,43),(3,20,33)); lvl=5; h,r-ind=1,1
    [3,3]((2,13,22),(4,26,43),(1,6,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,22),(4,25,43),(1,6,10)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,10),(1,7,11),(1,6,10),(2,12,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,11),(2,13,20),(1,6,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,19),(2,13,20),(1,6,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(2,12,19),(2,13,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(1,7,11),(2,13,20)); lvl=4; h,r-ind=1,1
[4,3]((2,11,20),(2,10,19),(1,5,10),(2,11,22)); lvl=2; h,r-ind=1,1
  [3,3]((4,21,40),(2,10,19),(1,5,10)); lvl=3; h,r-ind=1,1
  [4,3]((2,11,22),(2,11,21),(4,21,40),(1,5,10)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((2,11,21),(4,21,40),(3,16,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,10),(4,21,40),(3,16,31)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,22),(2,11,21),(3,16,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,10),(2,11,22),(3,16,31)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,20),(2,11,21),(4,21,40)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,11,20),(4,21,40),(2,10,19)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,7,15),(1,5,10),(2,11,22)); lvl=2; h,r-ind=1,1
[3,3]((1,4,8),(1,7,15),(1,5,10)); lvl=2; h,r-ind=1,1
[4,3]((1,4,8),(2,11,16),(2,11,20),(2,10,19)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,9),(1,5,8),(2,11,16),(2,11,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,8),(4,21,34),(2,11,17),(2,11,16)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,21,34),(3,16,25),(2,11,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,16),(3,16,25),(2,11,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(2,11,16),(3,16,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(4,21,34),(3,16,25)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,9),(1,5,8),(4,21,34)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,18),(1,5,9),(4,21,34),(2,11,17)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,16,26),(1,5,9),(4,21,34)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,17),(3,16,26),(4,21,34)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,18),(3,16,26),(1,5,9)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,17),(2,11,18),(3,16,26)); lvl=5; h,r-ind=1,1
  [3,3]((1,5,9),(2,11,20),(2,11,18)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,5,9),(2,10,19),(2,11,20)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,8),(1,5,9),(2,10,19)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,8),(1,5,9),(1,5,8)); lvl=3; h,r-ind=1,1
[3,3]((1,4,8),(2,10,19),(1,5,10)); lvl=2; h,r-ind=1,1
```

```
  [3,3]((1,7,15),(1,4,8),(1,1,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,7,8),(2,14,15)); lvl=1; h,r-ind=1,1
  [3,3]((1,7,15),(0,1,0),(1,7,8)); lvl=1; h,r-ind=7,7; optimized-h
```

15.14 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,2,15)); lvl=0; h,r-ind=15,225
  [3,3]((1,0,0),(1,1,4),(1,1,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,1,4),(1,1,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,2,15),(0,1,0),(1,1,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,15),(1,0,0),(1,1,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,4)); lvl=1; h,r-ind=4,16; optimized-h
```

15.15 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,15)); lvl=0; h,r-ind=15,75
  [4,3]((2,3,12),(4,6,15),(1,0,0),(1,1,5)); lvl=1; h,r-ind=3,3
    [3,3]((1,0,0),(2,2,7),(1,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,19),(2,3,8),(2,2,7),(1,1,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,3),(4,5,16),(7,9,28),(2,2,7)); lvl=3; h,r-ind=1,1
        [3,3]((5,6,19),(7,9,28),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,7),(5,6,19),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(2,2,7),(5,6,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(5,6,19),(7,9,28)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,8),(2,3,9),(1,1,3),(7,9,28)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,3,9),(3,4,12),(7,9,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(3,4,12),(7,9,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(1,1,3),(3,4,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(2,3,9),(3,4,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,13),(4,5,16),(2,2,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,9),(3,4,13),(4,5,16),(7,9,28)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,13),(6,8,25),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,28),(6,8,25),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(7,9,28),(6,8,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(3,4,13),(6,8,25)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,19),(2,3,9),(3,4,13)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,15),(1,0,0),(1,1,3)); lvl=2; h,r-ind=3,3; optimized-h
    [4,3]((5,6,15),(4,6,15),(2,3,8),(1,1,3)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,10),(6,8,21),(2,3,8),(4,6,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,18),(6,8,21),(2,3,8)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(5,7,18),(2,3,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,10),(4,6,15),(5,7,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,10),(5,7,18),(6,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(6,8,21),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(1,1,3),(6,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(5,6,15),(1,1,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,4),(1,0,0),(2,2,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,12),(4,6,19),(1,1,4),(2,2,7)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,4),(2,2,7),(5,6,21),(9,11,39)); lvl=3; h,r-ind=1,1
        [3,3]((6,7,25),(2,2,7),(5,6,21)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,39),(6,7,25),(5,6,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(9,11,39),(6,7,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(6,7,25),(2,2,7)); lvl=4; h,r-ind=1,1
      [5,3]((2,3,10),(3,4,14),(3,4,13),(5,6,21),(9,11,39)); lvl=3; h,r-ind=1,1
        [3,3]((8,10,35),(5,6,21),(9,11,39)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,14),(8,10,35),(9,11,39)); lvl=4; h,r-ind=1,1
        [4,3]((8,10,35),(7,9,31),(5,6,21),(4,5,17)); lvl=4; h,r-ind=1,1
          [3,3]((12,15,52),(7,9,31),(4,5,17)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,21),(12,15,52),(4,5,17)); lvl=5; h,r-ind=1,1
          [3,3]((8,10,35),(5,6,21),(12,15,52)); lvl=5; h,r-ind=1,1
          [3,3]((8,10,35),(12,15,52),(7,9,31)); lvl=5; h,r-ind=1,1
        [4,3]((12,16,55),(3,4,14),(8,10,35),(7,9,31)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((10,13,45),(8,10,35),(3,4,14)); lvl=5; h,r-ind=1,1
          [3,3]((12,16,55),(10,13,45),(3,4,14)); lvl=5; h,r-ind=1,1
          [3,3]((7,9,31),(12,16,55),(10,13,45)); lvl=5; h,r-ind=1,1
          [3,3]((7,9,31),(10,13,45),(8,10,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(12,16,55),(3,4,14)); lvl=4; h,r-ind=1,1
        [5,3]((2,3,10),(12,16,55),(7,9,31),(3,4,13),(4,5,17)); lvl=4; h,r-ind=1,1
          [3,3]((13,17,58),(7,9,31),(4,5,17)); lvl=5; h,r-ind=1,1
          [4,3]((6,8,27),(15,20,68),(13,17,58),(4,5,17)); lvl=5; h,r-ind=1,1
            [3,3]((19,25,85),(13,17,58),(15,20,68)); lvl=6; h,r-ind=1,1
            [3,3]((6,8,27),(19,25,85),(15,20,68)); lvl=6; h,r-ind=1,1
            [3,3]((4,5,17),(6,8,27),(19,25,85)); lvl=6; h,r-ind=1,1
            [3,3]((4,5,17),(19,25,85),(13,17,58)); lvl=6; h,r-ind=1,1
```

```
          [3,3]((3,4,13),(6,8,27),(4,5,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,10),(3,4,13),(6,8,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,10),(6,8,27),(15,20,68)); lvl=5; h,r-ind=1,1
          [4,3]((9,12,41),(15,20,68),(13,17,58),(7,9,31)); lvl=5; h,r-ind=1,1
            [3,3]((22,29,99),(13,17,58),(15,20,68)); lvl=6; h,r-ind=1,1
            [3,3]((9,12,41),(22,29,99),(15,20,68)); lvl=6; h,r-ind=1,1
            [3,3]((7,9,31),(9,12,41),(22,29,99)); lvl=6; h,r-ind=1,1
            [3,3]((7,9,31),(22,29,99),(13,17,58)); lvl=6; h,r-ind=1,1
          [3,3]((12,16,55),(9,12,41),(7,9,31)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,10),(9,12,41),(15,20,68)); lvl=5; h,r-ind=1,1
          [3,3]((12,16,55),(2,3,10),(9,12,41)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,10),(4,6,19),(3,4,13)); lvl=3; h,r-ind=1,1
      [5,3]((2,3,12),(4,6,21),(3,4,14),(1,1,4),(9,11,39)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,18),(3,4,14),(9,11,39)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,18),(1,1,4),(9,11,39)); lvl=4; h,r-ind=1,1
        [4,3]((7,9,33),(10,13,47),(4,5,18),(1,1,4)); lvl=4; h,r-ind=1,1
          [3,3]((10,13,47),(4,5,18),(11,14,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(4,5,18),(11,14,51)); lvl=5; h,r-ind=1,1
          [3,3]((7,9,33),(10,13,47),(11,14,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(7,9,33),(11,14,51)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,12),(2,3,11),(7,9,33),(1,1,4)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((3,4,15),(2,3,11),(7,9,33)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,15),(1,1,4),(7,9,33)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,12),(3,4,15),(1,1,4)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,12),(3,4,15),(2,3,11)); lvl=5; h,r-ind=1,1
        [4,3]((9,12,43),(10,13,47),(4,5,18),(3,4,14)); lvl=4; h,r-ind=1,1
          [3,3]((13,17,61),(4,5,18),(10,13,47)); lvl=5; h,r-ind=1,1
          [3,3]((9,12,43),(13,17,61),(10,13,47)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,14),(13,17,61),(4,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((9,12,43),(3,4,14),(13,17,61)); lvl=5; h,r-ind=1,1
        [4,3]((5,7,25),(9,12,43),(4,6,21),(3,4,14)); lvl=4; h,r-ind=1,1
          [3,3]((8,11,39),(3,4,14),(9,12,43)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,25),(8,11,39),(9,12,43)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,25),(4,6,21),(8,11,39)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,21),(8,11,39),(3,4,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,11),(5,7,25),(4,6,21)); lvl=4; h,r-ind=1,1
        [5,3]((2,3,11),(5,7,25),(7,9,33),(9,12,43),(10,13,47)); lvl=4; h,r-ind=1,1
          [3,3]((6,8,29),(10,13,47),(9,12,43)); lvl=5; h,r-ind=1,1
          [3,3]((6,8,29),(5,7,25),(9,12,43)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,11),(6,8,29),(5,7,25)); lvl=5; h,r-ind=1,1
          [3,3]((6,8,29),(7,9,33),(10,13,47)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,11),(6,8,29),(7,9,33)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,10),(4,6,21),(3,4,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(2,2,7),(5,6,21)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,5),(2,3,12),(1,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,5),(1,1,4),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,12),(2,3,14),(1,1,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,3,15),(2,3,14),(1,1,5)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,15),(2,3,14),(3,5,21)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(4,6,15),(1,2,4),(1,0,0)); lvl=1; h,r-ind=1,2
    [3,3]((2,3,7),(1,2,4),(4,6,15)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,15),(2,3,7),(3,4,9),(4,6,15)); lvl=2; h,r-ind=1,1
      [4,3]((11,15,36),(6,8,19),(2,3,7),(3,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((6,8,19),(3,4,9),(8,11,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(3,4,9),(8,11,26)); lvl=4; h,r-ind=1,1
        [3,3]((11,15,36),(6,8,19),(8,11,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(11,15,36),(8,11,26)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,12),(6,8,19),(3,4,9)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,10),(11,15,36),(4,5,12),(6,8,19)); lvl=3; h,r-ind=1,1
        [3,3]((11,15,36),(9,12,29),(6,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,12),(9,12,29),(6,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,10),(4,5,12),(9,12,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,10),(11,15,36),(9,12,29)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,15),(3,4,10),(4,5,12)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,10),(11,15,36),(4,6,15),(2,3,7)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((4,6,15),(5,7,17),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((11,15,36),(5,7,17),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,10),(4,6,15),(5,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((11,15,36),(3,4,10),(5,7,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(5,6,15),(1,1,2),(3,4,9)); lvl=2; h,r-ind=1,1
      [4,3]((4,5,12),(2,2,5),(8,9,21),(5,6,14)); lvl=3; h,r-ind=1,1
        [3,3]((7,8,19),(2,2,5),(8,9,21)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,19),(5,6,14),(8,9,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,12),(7,8,19),(5,6,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,12),(7,8,19),(2,2,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,2),(3,4,9),(8,9,21),(5,6,14)); lvl=3; h,r-ind=1,1
        [3,3]((5,6,14),(3,4,9),(6,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(3,4,9),(6,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,21),(1,1,2),(6,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,21),(5,6,14),(6,7,16)); lvl=4; h,r-ind=1,1
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    [3,3]((3,4,9),(4,5,12),(5,6,14)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,15),(4,5,12),(2,2,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(1,0,0),(2,2,5),(8,9,21)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,2,5),(1,0,0),(3,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,0,0),(3,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,21),(2,2,5),(3,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(8,9,21),(3,3,7)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,7),(3,5,10),(4,6,13),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,17),(3,5,10),(4,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(5,8,17),(4,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(5,8,17),(3,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(1,2,4),(5,8,17)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,3),(3,5,10),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,7),(1,2,3),(3,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(1,2,4),(3,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,7),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,7),(1,2,3)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,3),(2,3,4),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(2,3,4),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,4),(3,5,7),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,10),(1,2,2),(3,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,7),(4,6,13),(5,7,15),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((7,10,22),(5,7,15),(4,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(7,10,22),(4,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,9),(2,3,7),(7,10,22)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,9),(7,10,22),(5,7,15)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,2),(3,4,8),(5,7,15),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(5,7,15),(6,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,9),(5,7,15),(6,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,8),(6,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,9),(1,1,2),(6,8,17)); lvl=3; h,r-ind=1,1
  [5,3]((2,2,3),(2,3,4),(2,3,5),(1,1,2),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(3,4,7),(3,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,7),(3,4,8)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,5),(5,7,11),(3,4,7),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,18),(6,8,13),(3,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(8,11,18),(3,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(8,11,18),(6,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(5,7,11),(8,11,18)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,4),(2,3,5),(5,7,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,4),(4,5,8),(5,7,11),(6,8,13)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,6),(4,5,8),(6,8,13),(14,19,30)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((9,12,19),(4,5,8),(6,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((14,19,30),(9,12,19),(6,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,6),(14,19,30),(9,12,19)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,6),(9,12,19),(4,5,8)); lvl=5; h,r-ind=1,1
      [3,3]((5,7,11),(6,8,13),(14,19,30)); lvl=4; h,r-ind=1,1
      [4,3]((5,7,11),(2,3,4),(3,4,6),(14,19,30)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,6),(2,3,4),(8,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,11),(2,3,4),(8,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((14,19,30),(3,4,6),(8,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,11),(14,19,30),(8,11,17)); lvl=5; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(4,5,8)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((4,5,8),(1,1,2),(3,4,7),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,15),(3,4,7),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(7,9,15),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,13),(7,9,15),(3,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(6,8,13),(7,9,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,2,3),(4,5,8),(1,1,2)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(1,1,1),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=3; h,r-ind=1,1
  [6,3]((1,2,3),(3,5,10),(4,6,13),(2,3,5),(3,4,8),(5,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,15),(2,3,6),(4,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,10),(2,3,6),(4,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,10),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,8),(5,7,15),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(3,4,8),(2,3,6)); lvl=3; h,r-ind=1,1
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    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=3; h,r-ind=1,1
[5,3]((2,3,12),(3,5,19),(4,6,15),(1,2,4),(1,2,6)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,18),(1,2,6),(3,5,19)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,12),(3,5,18),(3,5,19)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,18),(3,5,15),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(6,11,33),(1,2,5)); lvl=3; h,r-ind=1,1
    [4,3]((6,10,33),(3,5,15),(6,11,33),(1,2,5)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((3,5,16),(9,16,48),(1,2,5),(3,5,15)); lvl=4; h,r-ind=1,3
        [3,3]((1,2,5),(9,16,48),(4,7,21)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,16),(9,16,48),(4,7,21)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,15),(1,2,5),(4,7,21)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,16),(3,5,15),(4,7,21)); lvl=5; h,r-ind=1,1
      [4,3]((4,7,22),(9,16,48),(6,11,33),(1,2,5)); lvl=4; h,r-ind=1,3
        [3,3]((5,9,27),(1,2,5),(9,16,48)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,22),(5,9,27),(9,16,48)); lvl=5; h,r-ind=1,1
        [3,3]((6,11,33),(5,9,27),(1,2,5)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,22),(6,11,33),(5,9,27)); lvl=5; h,r-ind=1,1
      [3,3]((4,7,22),(3,5,16),(9,16,48)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((4,7,22),(6,10,33),(3,5,16)); lvl=4; h,r-ind=1,1
    [4,3]((3,5,18),(6,10,33),(1,2,6),(6,11,33)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,2,6),(4,7,22),(9,16,51),(6,11,33)); lvl=4; h,r-ind=1,3
        [3,3]((5,9,28),(4,7,22),(9,16,51)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(5,9,28),(9,16,51)); lvl=5; h,r-ind=1,1
        [3,3]((6,11,33),(5,9,28),(4,7,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(6,11,33),(5,9,28)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,17),(4,7,22),(9,16,51)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,6),(3,5,18),(3,5,17),(9,16,51)); lvl=4; h,r-ind=1,3
        [3,3]((4,7,23),(3,5,18),(3,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((9,16,51),(4,7,23),(3,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(9,16,51),(4,7,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(4,7,23),(3,5,18)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,17),(6,10,33),(4,7,22)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,12),(3,5,18),(4,6,19),(3,5,15)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,10),(4,6,21),(3,5,15),(6,10,33)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,16),(12,19,63),(5,8,27),(7,11,37)); lvl=4; h,r-ind=1,1
        [3,3]((12,19,63),(10,16,53),(7,11,37)); lvl=5; h,r-ind=1,1
        [3,3]((5,8,27),(10,16,53),(7,11,37)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,16),(5,8,27),(10,16,53)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,16),(12,19,63),(10,16,53)); lvl=5; h,r-ind=1,1
      [3,3]((4,6,21),(5,8,27),(7,11,37)); lvl=4; h,r-ind=1,1
      [4,3]((4,6,21),(2,3,10),(12,19,63),(7,11,37)); lvl=4; h,r-ind=1,1
        [3,3]((9,14,47),(2,3,10),(12,19,63)); lvl=5; h,r-ind=1,1
        [3,3]((9,14,47),(7,11,37),(12,19,63)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,21),(9,14,47),(7,11,37)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,21),(9,14,47),(2,3,10)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,10),(3,5,15),(3,5,16),(12,19,63)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((5,8,26),(3,5,15),(3,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((12,19,63),(5,8,26),(3,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(12,19,63),(5,8,26)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(5,8,26),(3,5,15)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,16),(6,10,33),(5,8,27)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,12),(4,6,21),(3,5,18),(6,10,33)); lvl=3; h,r-ind=3,1; alert-h-inc
      [3,3]((6,10,33),(5,8,27),(3,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,11),(5,8,27),(3,5,17)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,12),(2,3,11),(3,5,18),(3,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,17),(3,5,18),(5,8,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,12),(3,5,18),(5,8,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,11),(2,3,12),(5,8,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,11),(3,5,17),(5,8,29)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,11),(4,6,21),(5,8,27)); lvl=4; h,r-ind=1,1
    [3,3]((4,6,19),(2,3,10),(3,5,15)); lvl=3; h,r-ind=1,1
  [5,3]((4,6,19),(2,3,8),(3,5,15),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,9),(4,7,18),(1,2,5),(6,10,29)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,18),(3,5,14),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,29),(3,5,14),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(6,10,29),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(4,7,18),(3,5,14)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,15),(1,2,5),(6,10,29)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,9),(4,6,19),(3,5,15),(6,10,29)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,8,24),(3,5,15),(4,6,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(5,8,24),(4,6,19)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,29),(5,8,24),(3,5,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(6,10,29),(5,8,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(4,7,18),(1,2,5)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,9),(2,3,8),(1,2,4),(4,7,18)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,8),(3,5,13),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,18),(3,5,13),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(4,7,18),(3,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(2,3,8),(3,5,13)); lvl=4; h,r-ind=1,1
  [3,3]((2,3,8),(1,2,4),(4,6,15)); lvl=2; h,r-ind=1,1
```

```
  [4,3]((2,3,12),(2,3,14),(3,5,21),(3,5,19)); lvl=1; h,r-ind=2,1
    [4,3]((2,3,13),(2,3,14),(3,5,21),(3,5,20)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,21),(2,3,14),(5,8,34)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(2,3,14),(5,8,34)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,20),(2,3,13),(5,8,34)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,20),(3,5,21),(5,8,34)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,12),(3,5,19),(2,3,13),(3,5,20)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,32),(3,5,20),(3,5,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,12),(5,8,32),(3,5,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,32),(2,3,13),(3,5,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,12),(5,8,32),(2,3,13)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(3,5,21),(3,5,19),(1,2,6)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,6),(4,7,26),(6,11,39),(3,5,19)); lvl=2; h,r-ind=1,1
      [3,3]((5,9,32),(6,11,39),(4,7,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,19),(5,9,32),(4,7,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(3,5,19),(5,9,32)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(5,9,32),(6,11,39)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,20),(4,7,26),(3,5,19)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,7),(3,5,20),(4,7,26),(6,11,39)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,20),(5,9,33),(4,7,26)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,39),(5,9,33),(4,7,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(3,5,20),(5,9,33)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,39),(1,2,7),(5,9,33)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,6),(0,1,0),(1,2,7),(6,11,39)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,4,13),(0,1,0),(1,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,39),(2,4,13),(1,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(6,11,39),(2,4,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(2,4,13),(0,1,0)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,7),(3,5,21),(3,5,20)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,15),(0,1,0),(3,5,21)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,2,4),(1,2,6)); lvl=1; h,r-ind=2,2; optimized-h
```

15.16 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,4,15)); lvl=0; h,r-ind=15,225
  [4,3]((2,3,10),(1,2,7),(3,5,18),(2,2,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,7),(3,5,18),(3,4,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,7),(3,5,18),(3,4,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(1,2,7),(3,4,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,7),(2,3,10),(3,4,14)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,4,15),(3,5,18),(2,2,7)); lvl=1; h,r-ind=1,2
    [3,3]((2,3,11),(3,5,18),(2,4,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,11),(2,4,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,11),(2,2,7),(3,5,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,11),(2,2,7)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(1,2,4),(1,2,6),(2,3,10),(2,2,7)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,3),(1,2,5),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,2,5),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,1,3),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,2,6),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(2,2,7),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(2,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,2,4)); lvl=1; h,r-ind=4,8; optimized-h
  [3,3]((1,2,6),(2,3,10),(1,2,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,6),(1,2,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,15),(0,1,0),(1,2,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,15),(1,2,7),(3,5,18)); lvl=1; h,r-ind=1,1
```

15.17 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,5,15)); lvl=0; h,r-ind=15,45
  [5,3]((3,8,16),(1,3,4),(1,3,5),(4,10,15),(2,5,10)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,8),(4,10,15)); lvl=2; h,r-ind=1,1
    [5,3]((1,3,4),(6,17,27),(6,16,27),(4,10,17),(2,5,8)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,4),(4,11,18),(8,22,35),(6,17,27)); lvl=3; h,r-ind=1,1
        [3,3]((4,11,18),(8,22,35),(5,14,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(8,22,35),(5,14,22)); lvl=4; h,r-ind=1,1
        [3,3]((6,17,27),(4,11,18),(5,14,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(6,17,27),(5,14,22)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,3,4),(8,22,35),(3,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,8),(3,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,18),(8,22,35),(3,8,13)); lvl=3; h,r-ind=1,1
      [4,3]((4,11,18),(6,16,27),(5,13,22),(3,8,13)); lvl=3; h,r-ind=1,1
        [3,3]((9,24,40),(5,13,22),(6,16,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,18),(9,24,40),(6,16,27)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,13),(4,11,18),(9,24,40)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,13),(9,24,40),(5,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((5,13,22),(4,10,17),(3,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(4,10,17),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(6,17,27),(1,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((6,17,27),(6,16,27),(3,8,15),(1,3,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,3,5),(3,8,15),(3,8,14),(9,25,42)); lvl=3; h,r-ind=1,3
        [3,3]((3,8,15),(4,11,19),(3,8,14)); lvl=4; h,r-ind=1,1
        [3,3]((9,25,42),(4,11,19),(3,8,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(9,25,42),(4,11,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(3,8,15),(4,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,18),(3,8,14),(9,25,42)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,3,5),(6,17,27),(4,11,18),(9,25,42)); lvl=3; h,r-ind=1,3
        [3,3]((6,17,27),(5,14,23),(4,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((9,25,42),(5,14,23),(4,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(6,17,27),(5,14,23)); lvl=4; h,r-ind=1,1
        [3,3]((9,25,42),(1,3,5),(5,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,18),(6,16,27),(3,8,14)); lvl=3; h,r-ind=1,1
    [4,3]((6,16,27),(3,8,15),(2,5,10),(4,10,17)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((3,8,14),(3,8,15),(2,5,9),(2,5,10)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,9),(2,5,10),(5,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,15),(2,5,10),(5,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,14),(2,5,9),(5,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,15),(3,8,14),(5,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((5,13,22),(3,8,14),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,17),(5,13,22),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,22),(6,16,27),(3,8,14)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,15),(3,8,16),(2,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,15),(1,3,5),(3,8,16)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(2,3,9),(1,2,5),(4,10,15),(2,5,10)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,10),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,11),(3,5,12),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,5),(4,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,12),(1,2,5),(4,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(1,2,4),(4,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,12),(3,5,11),(4,7,16)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,9),(3,5,12),(2,3,8),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,8),(3,5,12),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(3,5,12),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(2,3,8),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,9),(3,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,9),(2,3,8)); lvl=2; h,r-ind=1,1
    [5,3]((2,3,6),(1,1,3),(3,5,11),(3,5,12),(2,3,8)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,12),(2,3,8),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,8),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(1,1,3),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(3,5,12),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,5,11),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,6),(1,1,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((3,6,11),(4,10,17),(3,7,12),(2,5,10),(1,2,4)); lvl=2; h,r-ind=1,1
      [5,3]((5,11,20),(11,25,45),(9,21,37),(3,7,12),(3,6,11)); lvl=3; h,r-ind=1,1
        [3,3]((11,25,45),(4,9,16),(10,23,41)); lvl=4; h,r-ind=1,1
        [3,3]((9,21,37),(4,9,16),(10,23,41)); lvl=4; h,r-ind=1,1
        [3,3]((9,21,37),(3,7,12),(4,9,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,11),(3,7,12),(4,9,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,20),(11,25,45),(4,9,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,20),(3,6,11),(4,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(5,11,20),(3,6,11)); lvl=3; h,r-ind=1,1
      [5,3]((2,5,9),(5,12,21),(11,25,45),(7,16,29),(9,21,37)); lvl=3; h,r-ind=1,1
        [3,3]((6,14,25),(9,21,37),(5,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(6,14,25),(5,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,25),(10,23,41),(9,21,37)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,25),(11,25,45),(10,23,41)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,29),(6,14,25),(11,25,45)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(7,16,29),(6,14,25)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,17),(2,5,9),(5,12,21)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,4),(5,11,20),(11,25,45),(7,16,29)); lvl=3; h,r-ind=1,1
        [3,3]((5,11,20),(11,25,45),(12,27,49)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,29),(11,25,45),(12,27,49)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(5,11,20),(12,27,49)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,29),(1,2,4),(12,27,49)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,10),(2,5,9),(1,2,4),(7,16,29)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,5,9),(7,16,29),(3,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(7,16,29),(3,7,13)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,5,10),(2,5,9),(3,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,10),(3,7,13)); lvl=4; h,r-ind=1,1
    [4,3]((4,10,17),(5,12,21),(9,21,37),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,21),(8,19,33),(9,21,37)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,12),(8,19,33),(9,21,37)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,17),(5,12,21),(8,19,33)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,12),(4,10,17),(8,19,33)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,6),(3,5,11),(3,6,11),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,11),(3,5,10),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,11),(3,5,10),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(3,6,11),(3,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,11),(2,3,6),(3,5,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,3),(2,3,6),(3,6,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(1,2,3),(2,3,6)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,2,3),(2,5,8),(3,6,11),(3,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,8),(7,16,27),(3,7,12)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,7),(3,6,11),(7,16,27),(3,7,12)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,11,19),(3,6,11),(3,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((7,16,27),(5,11,19),(3,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(7,16,27),(5,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(5,11,19),(3,6,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(2,4,7),(2,5,8),(7,16,27)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,7),(4,9,15),(7,16,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(4,9,15),(7,16,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,8),(4,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,7),(4,9,15)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,3),(2,5,8),(4,10,15)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,8),(4,10,17),(3,7,12)); lvl=2; h,r-ind=1,1
[6,3]((3,8,16),(2,5,14),(3,8,21),(1,2,6),(1,2,5),(2,5,10)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,5),(2,5,11),(2,5,10)); lvl=2; h,r-ind=1,1
  [3,3]((3,8,16),(2,5,11),(2,5,10)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,12),(6,16,37),(3,8,16),(2,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,12),(6,16,35),(3,8,18),(9,23,52)); lvl=3; h,r-ind=1,1
      [4,3]((5,13,29),(3,8,18),(10,26,59),(6,16,35)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((8,21,47),(3,8,18),(10,26,59)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,29),(8,21,47),(10,26,59)); lvl=5; h,r-ind=1,1
        [3,3]((6,16,35),(8,21,47),(3,8,18)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,29),(6,16,35),(8,21,47)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,12),(5,13,29),(10,26,59)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(5,13,29),(9,23,52)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(3,8,18),(10,26,59)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,12),(6,16,37),(3,8,18)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,11),(3,8,16),(6,16,35),(9,23,52)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((5,13,29),(3,8,17),(6,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((5,13,29),(12,31,68),(3,8,17)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((2,5,11),(12,31,68),(3,8,16),(3,8,17)); lvl=4; h,r-ind=1,3
        [3,3]((3,8,17),(5,13,28),(3,8,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,11),(5,13,28),(3,8,16)); lvl=5; h,r-ind=1,1
        [3,3]((12,31,68),(3,8,17),(5,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,11),(12,31,68),(5,13,28)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,11),(9,23,52),(5,13,29),(12,31,68)); lvl=4; h,r-ind=1,3
        [3,3]((7,18,40),(5,13,29),(9,23,52)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,11),(7,18,40),(9,23,52)); lvl=5; h,r-ind=1,1
        [3,3]((12,31,68),(7,18,40),(5,13,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,11),(12,31,68),(7,18,40)); lvl=5; h,r-ind=1,1
    [3,3]((2,5,12),(2,5,11),(9,23,52)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,12),(4,9,23),(1,2,5),(2,5,11)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((4,9,23),(1,2,5),(3,7,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(1,2,5),(3,7,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,12),(4,9,23),(3,7,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(2,5,12),(3,7,17)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,12),(2,5,13),(3,8,21),(6,16,37)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,13),(6,16,39),(9,23,57),(3,8,21)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,8,20),(6,16,39),(5,13,32)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,20),(12,31,78),(5,13,32)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((2,5,13),(12,31,78),(9,23,57),(5,13,32)); lvl=4; h,r-ind=1,3
        [3,3]((12,31,78),(7,18,45),(5,13,32)); lvl=5; h,r-ind=1,1
        [3,3]((9,23,57),(7,18,45),(5,13,32)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,13),(12,31,78),(7,18,45)); lvl=5; h,r-ind=1,1
        [3,3]((9,23,57),(2,5,13),(7,18,45)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,13),(3,8,20),(3,8,21),(12,31,78)); lvl=4; h,r-ind=1,3
        [3,3]((5,13,33),(3,8,21),(3,8,20)); lvl=5; h,r-ind=1,1
        [3,3]((12,31,78),(5,13,33),(3,8,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,13),(12,31,78),(5,13,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,13),(5,13,33),(3,8,21)); lvl=5; h,r-ind=1,1
    [3,3]((2,5,12),(2,5,13),(9,23,57)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,12),(6,16,39),(3,8,19),(9,23,57)); lvl=3; h,r-ind=1,1
      [4,3]((5,13,32),(3,8,19),(10,26,63),(6,16,39)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((10,26,63),(3,8,19),(8,21,51)); lvl=5; h,r-ind=1,1
        [3,3]((6,16,39),(3,8,19),(8,21,51)); lvl=5; h,r-ind=1,1
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          [3,3]((5,13,32),(6,16,39),(8,21,51)); lvl=5; h,r-ind=1,1
          [3,3]((5,13,32),(10,26,63),(8,21,51)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,12),(5,13,32),(10,26,63)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(5,13,32),(9,23,57)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(3,8,19),(10,26,63)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(6,16,37),(3,8,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,14),(2,5,13),(3,8,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(4,9,23),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,12),(2,5,13),(1,2,6),(4,9,23)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,13),(3,7,18),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,23),(3,7,18),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(4,9,23),(3,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(2,5,13),(3,7,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,14),(2,5,13),(1,2,6)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,15),(2,5,14),(1,2,6)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,15),(2,5,14),(3,8,21)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,6),(2,3,9),(1,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,8,16),(3,8,21),(1,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,6),(3,8,16),(6,16,37)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((3,8,21),(1,3,7),(1,3,6),(6,16,37)); lvl=2; h,r-ind=1,1
      [3,3]((6,17,39),(1,3,6),(1,3,7)); lvl=3; h,r-ind=1,1
      [4,3]((3,8,21),(6,17,39),(6,16,39),(1,3,7)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,3,7),(4,11,26),(9,25,60),(6,17,39)); lvl=4; h,r-ind=1,3
          [3,3]((5,14,33),(9,25,60),(4,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((6,17,39),(5,14,33),(4,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(6,17,39),(5,14,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(5,14,33),(9,25,60)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,20),(4,11,26),(9,25,60)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,3,7),(3,8,21),(3,8,20),(9,25,60)); lvl=4; h,r-ind=1,3
          [3,3]((4,11,27),(3,8,21),(3,8,20)); lvl=5; h,r-ind=1,1
          [3,3]((9,25,60),(4,11,27),(3,8,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(9,25,60),(4,11,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(4,11,27),(3,8,21)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,20),(6,16,39),(4,11,26)); lvl=4; h,r-ind=1,1
      [4,3]((6,17,39),(6,16,39),(3,8,19),(1,3,6)); lvl=3; h,r-ind=1,1
        [4,3]((6,16,39),(4,11,26),(3,8,19),(8,22,51)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,11,26),(8,22,51),(7,19,45)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,19),(8,22,51),(7,19,45)); lvl=5; h,r-ind=1,1
          [3,3]((6,16,39),(4,11,26),(7,19,45)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,19),(6,16,39),(7,19,45)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(3,8,19),(8,22,51)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(4,11,26),(8,22,51)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(6,17,39),(4,11,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,19),(6,16,37),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,7),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,6),(3,8,16)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,5),(1,3,6)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,15),(0,1,0),(3,8,21)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((0,1,0),(1,0,0),(1,3,4),(4,10,15)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,4),(1,2,3),(4,10,13),(4,10,15)); lvl=2; h,r-ind=1,4; alert-r-inc
      [3,3]((4,10,13),(2,5,7),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,15),(2,5,7),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(4,10,15),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(4,10,13),(2,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(1,2,2),(2,5,6),(4,10,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,9),(2,5,6),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,9),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(4,10,13),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,9),(4,10,13)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,4),(2,5,6),(4,10,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,6),(4,10,13),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(4,10,13),(3,8,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(5,14,17),(2,5,6),(3,8,10)); lvl=3; h,r-ind=1,1
        [3,3]((4,11,13),(5,14,17),(3,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(4,11,13),(3,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,5,6),(4,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(4,11,13),(5,14,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(5,14,17),(3,8,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(0,1,0),(1,3,3),(5,14,17)); lvl=3; h,r-ind=1,1
        [3,3]((2,6,7),(1,3,3),(0,1,0)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,6,7),(0,1,0)); lvl=4; h,r-ind=1,1
        [3,3]((5,14,17),(2,6,7),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(5,14,17),(2,6,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,2,2),(2,5,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,3,4),(1,3,5)); lvl=1; h,r-ind=1,1
```

15.18 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,6,15)); lvl=0; h,r-ind=15,75
  [4,3]((2,5,10),(1,2,4),(1,3,7),(1,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,11),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(2,5,11),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,10),(1,3,7),(2,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,10),(2,5,11),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,6,15),(1,3,7),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,6,15),(1,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,4),(1,2,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,5,10),(1,3,5),(1,3,7)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,3,5),(1,3,7)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((2,5,10),(1,2,4),(1,2,3),(1,3,5),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,13),(1,3,4),(1,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,9),(3,8,13),(4,10,17),(1,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,13,22),(3,8,13),(4,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(5,13,22),(4,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(5,13,22),(3,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(1,3,5),(5,13,22)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,10),(2,5,9),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,10),(2,5,9),(1,2,4)); lvl=2; h,r-ind=1,1
    [5,3]((3,7,12),(3,8,13),(4,10,17),(1,2,3),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((4,10,17),(2,5,8),(3,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,8),(3,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(4,10,17),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(1,2,3),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,12),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,9),(3,7,12),(4,10,17),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,12),(4,10,17),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(4,10,17),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,12),(5,12,21)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(1,2,3),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,9),(1,1,1),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,2),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(3,7,9),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,4),(3,7,9),(1,2,2)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,5,6),(1,3,4),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(2,5,6),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,8,9),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,8,9),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=1; h,r-ind=1,1
```

15.19 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,7,15)); lvl=0; h,r-ind=15,225
  [5,3]((0,1,0),(1,0,0),(2,6,7),(1,4,4),(2,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,5),(2,2,3),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
      [4,3]((2,2,3),(2,3,4),(1,1,1),(4,6,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(2,3,4),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(1,1,1),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(4,6,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(2,4,5),(2,3,4),(4,6,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,7),(3,5,6),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(4,6,7),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(2,6,7),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,2),(4,10,11),(2,4,5),(2,5,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,8),(2,5,6),(4,10,11)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,2,2),(3,7,8),(4,10,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(3,7,8)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,3),(4,10,11),(2,6,7),(2,5,6)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,9),(4,10,11),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,7),(3,8,9),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(3,8,9),(4,10,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,3),(1,2,2),(4,10,11)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,4),(1,3,3),(2,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(1,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((2,2,3),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
[3,3]((1,1,2),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
[3,3]((2,7,15),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
[5,3]((1,1,2),(1,3,4),(1,2,4),(2,6,7),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(1,2,4),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((2,2,3),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((2,2,3),(1,2,3),(2,4,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,6,7),(1,2,3),(2,4,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,3,4),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,4),(2,6,7),(1,2,3)); lvl=2; h,r-ind=1,1
[3,3]((2,7,15),(1,1,2),(1,2,4)); lvl=1; h,r-ind=1,1
[4,3]((2,7,14),(1,3,4),(2,7,9),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,5),(1,3,4),(2,7,9)); lvl=2; h,r-ind=1,1
  [3,3]((4,14,23),(1,3,5),(2,7,9)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,7,14),(4,14,23),(1,3,5),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,12),(1,3,5),(4,14,23)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,12),(4,14,25),(5,16,29),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(5,16,29),(3,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(6,20,35),(3,10,18)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,12),(4,14,25),(6,20,35),(3,10,18)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,18),(6,20,35),(5,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,12),(6,20,35),(5,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,25),(3,10,18),(5,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,12),(4,14,25),(5,17,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,12),(6,20,35)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(5,16,29),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,14),(4,14,25),(1,3,6),(5,16,29)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,3,6),(7,23,43),(3,10,18),(5,16,29)); lvl=4; h,r-ind=1,3
        [3,3]((7,23,43),(4,13,24),(3,10,18)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,29),(4,13,24),(3,10,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(5,16,29),(4,13,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(7,23,43),(4,13,24)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,13),(7,23,43),(3,10,18)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,3,6),(2,7,14),(2,7,13),(7,23,43)); lvl=4; h,r-ind=1,3
        [3,3]((3,10,19),(2,7,14),(2,7,13)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,43),(3,10,19),(2,7,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(7,23,43),(3,10,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(3,10,19),(2,7,14)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,13),(3,10,18),(4,14,25)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,4),(1,3,5),(1,3,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,4),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
[3,3]((2,7,15),(2,7,14),(1,2,4)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((0,1,0),(2,7,15),(2,7,14)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((1,3,4),(2,7,9),(2,6,7),(1,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,8),(2,7,9),(1,4,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,6,7),(2,7,8),(1,4,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,4),(2,7,8),(2,7,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,4),(2,6,7),(2,7,8)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(2,7,14),(2,7,9),(1,4,4)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,5),(2,8,11),(4,14,23),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,11),(4,14,23),(3,11,17)); lvl=3; h,r-ind=1,1
    [5,3]((2,7,11),(3,11,16),(9,34,48),(5,19,27),(3,11,17)); lvl=3; h,r-ind=1,1
      [4,3]((4,15,22),(7,26,38),(5,19,27),(8,30,43)); lvl=4; h,r-ind=1,1
        [3,3]((12,45,65),(8,30,43),(7,26,38)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,22),(12,45,65),(7,26,38)); lvl=5; h,r-ind=1,1
        [3,3]((5,19,27),(12,45,65),(8,30,43)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,22),(5,19,27),(12,45,65)); lvl=5; h,r-ind=1,1
      [3,3]((9,34,48),(5,19,27),(8,30,43)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,16),(9,34,48),(8,30,43)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,16),(7,26,38),(12,44,65),(8,30,43)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,26,38),(10,37,54),(12,44,65)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,16),(10,37,54),(12,44,65)); lvl=5; h,r-ind=1,1
        [3,3]((8,30,43),(3,11,16),(10,37,54)); lvl=5; h,r-ind=1,1
        [3,3]((8,30,43),(7,26,38),(10,37,54)); lvl=5; h,r-ind=1,1
      [5,3]((2,7,11),(4,15,22),(3,11,17),(7,26,38),(12,44,65)); lvl=4; h,r-ind=1,1
        [3,3]((6,22,33),(2,7,11),(3,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,22),(6,22,33),(3,11,17)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((4,15,22),(13,48,71),(7,26,38)); lvl=5; h,r-ind=1,1
          [3,3]((15,55,82),(6,22,33),(2,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((15,55,82),(9,33,49),(2,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((9,33,49),(12,44,65),(2,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((7,26,38),(9,33,49),(12,44,65)); lvl=5; h,r-ind=1,1
          [4,3]((13,48,71),(15,55,82),(7,26,38),(9,33,49)); lvl=5; h,r-ind=1,1
            [3,3]((15,55,82),(9,33,49),(22,81,120)); lvl=6; h,r-ind=1,1
            [3,3]((7,26,38),(9,33,49),(22,81,120)); lvl=6; h,r-ind=1,1
            [3,3]((13,48,71),(7,26,38),(22,81,120)); lvl=6; h,r-ind=1,1
            [3,3]((13,48,71),(15,55,82),(22,81,120)); lvl=6; h,r-ind=1,1
          [4,3]((4,15,22),(13,48,71),(15,55,82),(6,22,33)); lvl=5; h,r-ind=1,1
            [3,3]((19,70,104),(15,55,82),(13,48,71)); lvl=6; h,r-ind=1,1
            [3,3]((4,15,22),(19,70,104),(13,48,71)); lvl=6; h,r-ind=1,1
            [3,3]((6,22,33),(19,70,104),(15,55,82)); lvl=6; h,r-ind=1,1
            [3,3]((4,15,22),(6,22,33),(19,70,104)); lvl=6; h,r-ind=1,1
        [3,3]((3,11,16),(2,7,11),(12,44,65)); lvl=4; h,r-ind=1,1
      [3,3]((5,19,27),(2,8,11),(3,11,17)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,4,5),(9,34,48),(5,19,27),(2,8,11)); lvl=3; h,r-ind=1,1
        [3,3]((6,23,32),(9,34,48),(5,19,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,11),(6,23,32),(5,19,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,8,11),(6,23,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(6,23,32),(9,34,48)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(4,14,21),(3,11,16)); lvl=3; h,r-ind=1,1
      [5,3]((1,4,5),(2,7,9),(4,14,21),(3,11,16),(9,34,48)); lvl=3; h,r-ind=1,1
        [5,3]((5,18,26),(9,33,47),(2,7,10),(7,26,36),(10,37,52)); lvl=4; h,r-ind=1,1
          [3,3]((6,22,31),(7,26,36),(10,37,52)); lvl=5; h,r-ind=1,1
          [3,3]((9,33,47),(6,22,31),(10,37,52)); lvl=5; h,r-ind=1,1
          [3,3]((5,18,26),(9,33,47),(6,22,31)); lvl=5; h,r-ind=1,1
          [3,3]((6,22,31),(2,7,10),(7,26,36)); lvl=5; h,r-ind=1,1
          [3,3]((5,18,26),(6,22,31),(2,7,10)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,5),(4,15,21),(7,26,36),(10,37,52)); lvl=4; h,r-ind=1,1
          [3,3]((4,15,21),(10,37,52),(11,41,57)); lvl=5; h,r-ind=1,1
          [3,3]((7,26,36),(10,37,52),(11,41,57)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(4,15,21),(11,41,57)); lvl=5; h,r-ind=1,1
          [3,3]((7,26,36),(1,4,5),(11,41,57)); lvl=5; h,r-ind=1,1
        [4,3]((4,15,21),(3,11,16),(9,33,47),(10,37,52)); lvl=4; h,r-ind=1,1
          [3,3]((13,48,68),(9,33,47),(3,11,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,21),(13,48,68),(3,11,16)); lvl=5; h,r-ind=1,1
          [3,3]((10,37,52),(4,15,21),(13,48,68)); lvl=5; h,r-ind=1,1
          [3,3]((10,37,52),(13,48,68),(9,33,47)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,21),(9,34,48),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(4,15,21),(9,34,48)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,21),(5,18,26),(2,7,10)); lvl=4; h,r-ind=1,1
        [4,3]((3,11,16),(4,14,21),(5,18,26),(9,33,47)); lvl=4; h,r-ind=1,1
          [3,3]((4,14,21),(5,18,26),(8,29,42)); lvl=5; h,r-ind=1,1
          [3,3]((9,33,47),(5,18,26),(8,29,42)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,16),(9,33,47),(8,29,42)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,16),(4,14,21),(8,29,42)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,5),(2,7,9),(2,7,10),(7,26,36)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,7,10),(2,7,9),(3,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(2,7,9),(3,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((7,26,36),(2,7,10),(3,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(7,26,36),(3,11,15)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,4),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,11),(1,4,7),(2,7,14),(4,14,23)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,12),(4,14,25)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,6),(1,4,7),(2,7,14),(4,14,25)); lvl=3; h,r-ind=1,1
        [4,3]((4,15,26),(1,4,7),(2,7,13),(2,7,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,7,13),(3,11,20),(2,7,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(3,11,20),(2,7,14)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,26),(2,7,13),(3,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(4,15,26),(3,11,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(4,15,26),(2,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,25),(1,4,6),(2,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(4,15,26),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,17),(1,4,6),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,23),(3,11,17),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(3,11,17),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,8,11),(1,4,7)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,4,5),(2,8,11)); lvl=2; h,r-ind=1,1
```

15.20 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,8,15)); lvl=0; h,r-ind=15,225
  [3,3]((1,0,0),(2,4,7),(2,6,11)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((2,5,8),(1,4,7),(3,11,20),(2,4,7),(2,6,11)); lvl=1; h,r-ind=1,1
```

```
    [4,3]((2,5,9),(2,6,11),(3,10,18),(6,17,30)); lvl=2; h,r-ind=1,1
      [4,3]((7,20,36),(3,9,16),(3,10,18),(2,6,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,9,16),(3,10,18),(5,15,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,11),(3,10,18),(5,15,27)); lvl=4; h,r-ind=1,1
        [3,3]((7,20,36),(3,9,16),(5,15,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,11),(7,20,36),(5,15,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,9),(7,20,36),(2,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(7,20,36),(3,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(6,17,30),(3,9,16)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,5),(1,4,7),(3,10,18),(6,17,30)); lvl=2; h,r-ind=1,1
      [4,3]((5,16,28),(3,9,16),(3,10,18),(1,4,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,9,16),(4,13,23),(3,10,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(4,13,23),(3,10,18)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,28),(3,9,16),(4,13,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(5,16,28),(4,13,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(5,16,28),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(5,16,28),(3,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(3,9,16),(6,17,30)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,5),(2,4,7),(2,5,9),(6,17,30)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,7),(3,8,14),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,30),(3,8,14),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(6,17,30),(3,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,4,7),(3,8,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(1,3,5),(2,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,20),(2,6,11),(3,10,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,7),(3,11,20),(3,10,18)); lvl=2; h,r-ind=1,1
  [3,3]((2,8,15),(3,11,20),(2,6,11)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,4,4),(2,5,8),(1,4,7)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,4,4),(1,4,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,8,15),(0,1,0),(1,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,8,15),(1,4,7),(3,11,20)); lvl=1; h,r-ind=1,1
  [3,3]((2,8,15),(1,0,0),(2,6,11)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,4,4),(2,5,8),(1,0,0),(2,4,7)); lvl=1; h,r-ind=3,3
    [3,3]((1,2,3),(2,5,8),(2,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,8),(2,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,5,8),(2,4,7)); lvl=2; h,r-ind=3,9; alert-r-inc; optimized-h
    [3,3]((1,0,0),(1,2,3),(3,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,0,0),(1,2,3)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,2,3),(2,5,8),(1,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(1,4,4),(1,2,3),(1,3,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,4),(1,3,3),(1,3,4),(3,8,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,3),(3,8,10),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(1,3,3),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,4),(2,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(3,8,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(1,2,3),(1,3,3),(3,8,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,3),(2,5,6),(3,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,5,6),(3,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,2,3),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(2,5,6)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(1,0,0)); lvl=1; h,r-ind=4,4; optimized-h
```

15.21 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,9,15)); lvl=0; h,r-ind=15,75
  [5,3]((4,9,12),(2,6,9),(1,4,6),(1,4,4),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,9),(2,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((4,9,12),(5,12,15),(1,3,4),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,9),(5,12,15),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(6,15,20),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(6,15,20),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((4,9,12),(3,7,9),(2,5,7),(6,15,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,16),(6,15,20),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,12),(5,12,16),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(4,9,12),(5,12,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(5,12,16),(6,15,20)); lvl=4; h,r-ind=1,1
    [3,3]((5,12,15),(1,3,4),(1,3,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,4),(1,3,3),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,6),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,6),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,5),(1,4,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(4,9,12),(1,3,3)); lvl=1; h,r-ind=9,3; optimized-h
  [5,3]((2,6,9),(1,4,6),(3,13,21),(5,22,35),(1,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((5,22,35),(4,17,27),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,12,19),(4,17,27),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,11),(3,12,19),(1,4,6)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((2,6,9),(2,7,11),(1,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,11),(1,3,5),(3,12,19),(2,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,13),(3,12,19),(4,15,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(3,12,19),(4,15,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,11),(4,15,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,8,13),(4,15,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(2,7,11),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((5,22,35),(4,17,27),(3,13,21)); lvl=2; h,r-ind=1,1
    [4,3]((3,12,19),(4,17,27),(2,8,13),(3,13,21)); lvl=2; h,r-ind=1,1
      [3,3]((3,13,21),(4,17,27),(6,25,40)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,19),(4,17,27),(6,25,40)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,13),(3,12,19),(6,25,40)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,13),(3,13,21),(6,25,40)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,15),(3,13,21),(1,3,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,9,15),(3,13,21),(5,22,35)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,9,15),(5,22,35)); lvl=1; h,r-ind=5,5; optimized-h
  [4,3]((1,0,0),(4,9,12),(2,6,9),(1,3,5)); lvl=1; h,r-ind=3,3
    [4,3]((1,2,3),(4,9,12),(2,5,7),(5,9,12)); lvl=2; h,r-ind=1,1
      [4,3]((3,6,8),(6,13,18),(2,5,7),(4,9,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,11,15),(6,13,18),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,12),(5,11,15),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,8),(4,9,12),(5,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,8),(5,11,15),(6,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(3,6,8),(6,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,6,8),(5,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(6,13,18),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(5,9,12)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,3,5),(1,0,0),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,6,9),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,3),(2,6,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((0,1,0),(1,4,6),(1,4,4),(5,22,35)); lvl=1; h,r-ind=1,1
    [4,3]((6,26,33),(3,13,18),(1,4,5),(1,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,5),(5,21,28),(1,4,6)); lvl=3; h,r-ind=1,1
      [4,3]((3,13,17),(3,13,18),(5,21,28),(1,4,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,17,23),(3,13,18),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,21,28),(4,17,23),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,17),(5,21,28),(4,17,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,17),(4,17,23),(3,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,17),(1,4,5),(5,21,28)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,17),(6,26,33),(1,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,14),(3,14,21),(3,13,18),(1,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,6),(3,13,18),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(5,22,33),(2,9,13)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,14),(3,14,21),(5,22,33),(2,9,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,18,27),(3,14,21),(2,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,22,33),(4,18,27),(2,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,14),(5,22,33),(4,18,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,14),(4,18,27),(3,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,9,14),(5,22,33)); lvl=3; h,r-ind=1,1
    [3,3]((5,22,35),(2,9,14),(1,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(6,26,33),(1,4,4),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,10),(1,4,4),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,11),(2,9,10),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,11),(6,26,33),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,9,11),(2,9,10)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((0,1,0),(2,9,10),(1,4,4)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((0,1,0),(3,14,21),(6,26,33),(3,13,18)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc
      [4,3]((3,14,18),(2,9,13),(3,13,17),(3,13,18)); lvl=3; h,r-ind=1,3
        [3,3]((2,9,12),(3,13,17),(3,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,12),(2,9,13),(3,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,18),(2,9,12),(2,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,18),(2,9,12),(3,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(3,14,18),(2,9,13)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((0,1,0),(1,5,7),(3,14,18)); lvl=3; h,r-ind=3,3; optimized-h
      [3,3]((1,5,7),(3,14,21),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,18),(3,13,17),(2,9,11)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((0,1,0),(3,14,18),(2,9,11)); lvl=3; h,r-ind=3,3; optimized-h
      [3,3]((6,26,33),(3,13,17),(2,9,11)); lvl=3; h,r-ind=1,1
```

15.22 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,10,15)); lvl=0; h,r-ind=15,45
  [5,3]((1,5,7),(2,6,9),(1,3,3),(1,4,6),(1,4,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,6),(1,5,7),(2,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(1,5,7),(2,8,11)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,3,4),(1,4,5),(2,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,3),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,4),(1,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(1,4,5),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,9),(1,3,4),(1,4,6),(2,8,11)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,10),(1,4,6),(2,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,10),(2,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,9),(2,7,10),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(2,7,10)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,7),(1,4,4)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((2,10,15),(1,5,7),(1,4,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,10,15),(1,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,6,9),(1,3,3)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

15.23 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,12,15)); lvl=0; h,r-ind=15,75
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,4,5),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,4,4)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,6,7),(2,11,13),(0,1,0),(1,4,4)); lvl=1; h,r-ind=1,1
    [5,3]((4,22,25),(5,27,30),(3,15,16),(1,4,4),(2,11,13)); lvl=2; h,r-ind=1,1
      [4,3]((4,21,23),(5,26,29),(5,27,30),(3,16,18)); lvl=3; h,r-ind=1,1
        [3,3]((7,37,41),(5,26,29),(3,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((5,27,30),(7,37,41),(3,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,23),(5,27,30),(7,37,41)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,23),(7,37,41),(5,26,29)); lvl=4; h,r-ind=1,1
      [3,3]((4,22,25),(5,27,30),(3,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((4,22,25),(2,11,13),(3,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(5,26,29),(3,16,18)); lvl=3; h,r-ind=1,1
      [4,3]((4,21,23),(3,15,16),(2,10,11),(5,26,29)); lvl=3; h,r-ind=1,1
        [3,3]((6,31,34),(2,10,11),(3,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,23),(6,31,34),(3,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((6,31,34),(5,26,29),(2,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,23),(6,31,34),(5,26,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,15,16),(2,10,11),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(2,10,11),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(2,10,11),(5,26,29)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,7),(4,22,25),(2,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,5),(3,15,16),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,5),(0,1,0),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,7),(4,22,25),(5,27,30),(2,11,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,22,25),(5,27,30),(6,33,37)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,12),(5,27,30),(6,33,37)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,12),(6,33,37)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(4,22,25),(6,33,37)); lvl=3; h,r-ind=1,1
    [5,3]((2,11,11),(5,27,30),(2,11,12),(1,5,5),(3,15,16)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,5),(8,42,45),(10,53,57),(3,16,17)); lvl=3; h,r-ind=1,1
        [3,3]((8,42,45),(10,53,57),(11,58,62)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,17),(10,53,57),(11,58,62)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(3,16,17),(11,58,62)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(8,42,45),(11,58,62)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,12),(9,48,52),(10,53,57),(3,16,17)); lvl=3; h,r-ind=1,1
        [3,3]((12,64,69),(10,53,57),(9,48,52)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(12,64,69),(9,48,52)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,17),(12,64,69),(10,53,57)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(3,16,17),(12,64,69)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,11),(2,11,12),(3,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,11),(1,5,5),(3,16,17)); lvl=3; h,r-ind=1,1
      [6,3]((6,32,35),(9,48,52),(4,21,23),(5,26,28),(8,42,45),(10,53,57)); lvl=3; h,r-ind=1,1
        [3,3]((7,37,40),(10,53,57),(9,48,52)); lvl=4; h,r-ind=1,1
        [3,3]((6,32,35),(7,37,40),(9,48,52)); lvl=4; h,r-ind=1,1
        [3,3]((6,32,35),(4,21,23),(7,37,40)); lvl=4; h,r-ind=1,1
        [3,3]((7,37,40),(10,53,57),(8,42,45)); lvl=4; h,r-ind=1,1
        [3,3]((7,37,40),(5,26,28),(8,42,45)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,23),(7,37,40),(5,26,28)); lvl=4; h,r-ind=1,1
      [3,3]((5,27,30),(6,32,35),(4,21,23)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,12),(5,27,30),(6,32,35),(9,48,52)); lvl=3; h,r-ind=1,1
        [3,3]((8,43,47),(5,27,30),(6,32,35)); lvl=4; h,r-ind=1,1
        [3,3]((9,48,52),(8,43,47),(6,32,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(9,48,52),(8,43,47)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(8,43,47),(5,27,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,15,16),(4,21,23),(5,26,28)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,5),(3,15,16),(5,26,28),(8,42,45)); lvl=3; h,r-ind=1,1
        [3,3]((3,15,16),(5,26,28),(6,31,33)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((8,42,45),(5,26,28),(6,31,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(8,42,45),(6,31,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(3,15,16),(6,31,33)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,7),(2,11,11),(2,11,12),(0,1,0)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,6,6),(0,1,0),(2,11,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(2,11,12),(2,11,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,6),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,6),(0,1,0)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,11),(1,5,5),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((2,12,15),(1,6,7),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,12,15),(1,6,7),(2,11,13)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,5),(2,11,13),(1,2,2),(1,4,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,6),(2,11,13),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(1,5,6),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(1,3,3),(1,2,2),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,3,3),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,2,2),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,5),(2,7,8)); lvl=3; h,r-ind=1,1
  [3,3]((2,12,15),(1,4,5),(2,11,13)); lvl=1; h,r-ind=3,3; optimized-h
```

15.24 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,14,15)); lvl=0; h,r-ind=15,225
  [3,3]((0,1,0),(1,4,4),(1,7,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,14,15),(0,1,0),(1,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,14,15),(1,4,4),(1,7,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,4,4),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,14,15),(1,4,4),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(2,14,15),(1,1,1)); lvl=1; h,r-ind=1,1
```

15.25 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,4,15)); lvl=0; h,r-ind=15,75
  [4,3]((6,8,15),(1,1,2),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(2,2,3),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,8),(3,4,5),(4,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,2,3),(5,6,8),(8,9,12),(4,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((7,8,11),(8,9,12),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(7,8,11),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(4,5,7),(7,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(7,8,11),(8,9,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,1),(1,0,0),(2,2,3),(8,9,12)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,12),(2,2,3),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(8,9,12),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,1),(5,6,8),(8,9,12),(3,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((6,7,9),(8,9,12),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(6,7,9),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(6,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(6,7,9),(8,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(3,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,6),(1,1,2),(2,2,3),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,9),(2,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,6,9),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(5,6,9),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(4,5,7),(5,6,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,5),(6,8,15),(3,4,6),(1,1,2)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,4,7),(1,1,2),(6,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(3,4,7),(6,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(3,4,7),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(3,4,6),(3,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(3,4,6),(2,3,3),(4,5,7)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((3,4,6),(2,3,4),(3,4,5),(4,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((6,8,11),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(6,8,11),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(6,8,11),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(4,5,7),(6,8,11)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,3),(1,2,2),(2,3,4),(3,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((4,6,7),(2,3,4),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(4,6,7),(1,2,2)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((3,4,5),(4,6,7),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,5),(4,6,7)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,2),(0,1,0),(2,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,5),(1,2,2),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,5),(1,2,2),(3,4,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,1,2),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
[3,3]((1,1,3),(2,2,7),(1,0,0)); lvl=1; h,r-ind=1,1
[4,3]((3,4,15),(15,17,60),(2,2,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((15,17,60),(6,7,25),(9,10,36),(2,2,7)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((8,9,32),(6,7,25),(9,10,36)); lvl=3; h,r-ind=1,1
    [3,3]((8,9,32),(2,2,7),(9,10,36)); lvl=3; h,r-ind=1,1
    [3,3]((15,17,60),(8,9,32),(2,2,7)); lvl=3; h,r-ind=1,1
    [3,3]((15,17,60),(8,9,32),(6,7,25)); lvl=3; h,r-ind=1,1
  [4,3]((5,5,18),(12,13,47),(9,10,36),(2,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((9,10,36),(12,13,47),(14,15,54)); lvl=3; h,r-ind=1,1
    [3,3]((5,5,18),(12,13,47),(14,15,54)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,7),(5,5,18),(14,15,54)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,7),(9,10,36),(14,15,54)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(5,5,18),(2,2,7)); lvl=2; h,r-ind=1,1
  [3,3]((5,6,22),(6,7,25),(9,10,36)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((8,9,33),(12,13,47),(5,6,22),(9,10,36)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((10,11,40),(12,13,47),(7,8,29),(9,10,36)); lvl=3; h,r-ind=1,1
      [3,3]((19,21,76),(9,10,36),(12,13,47)); lvl=4; h,r-ind=1,1
      [3,3]((10,11,40),(19,21,76),(12,13,47)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,29),(10,11,40),(19,21,76)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,29),(19,21,76),(9,10,36)); lvl=4; h,r-ind=1,1
    [4,3]((5,6,22),(8,9,33),(10,11,40),(7,8,29)); lvl=3; h,r-ind=1,1
      [3,3]((15,17,62),(10,11,40),(8,9,33)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,22),(15,17,62),(8,9,33)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,29),(15,17,62),(10,11,40)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,22),(7,8,29),(15,17,62)); lvl=4; h,r-ind=1,1
  [3,3]((3,4,15),(8,9,33),(5,6,22)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(5,5,18),(8,9,33),(12,13,47)); lvl=2; h,r-ind=1,1
    [3,3]((15,16,58),(10,11,40),(12,13,47)); lvl=3; h,r-ind=1,1
    [4,3]((5,5,18),(15,16,58),(23,24,87),(12,13,47)); lvl=3; h,r-ind=1,1
      [3,3]((20,21,76),(23,24,87),(15,16,58)); lvl=4; h,r-ind=1,1
      [3,3]((12,13,47),(20,21,76),(15,16,58)); lvl=4; h,r-ind=1,1
      [3,3]((5,5,18),(12,13,47),(20,21,76)); lvl=4; h,r-ind=1,1
      [3,3]((5,5,18),(20,21,76),(23,24,87)); lvl=4; h,r-ind=1,1
    [4,3]((3,3,11),(1,0,0),(5,5,18),(23,24,87)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((1,0,0),(8,8,29),(5,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((23,24,87),(8,8,29),(5,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,11),(23,24,87),(8,8,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,11),(1,0,0),(8,8,29)); lvl=4; h,r-ind=1,1
    [4,3]((3,3,11),(15,16,58),(23,24,87),(10,11,40)); lvl=3; h,r-ind=1,1
      [3,3]((18,19,69),(23,24,87),(15,16,58)); lvl=4; h,r-ind=1,1
      [3,3]((10,11,40),(18,19,69),(15,16,58)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,11),(10,11,40),(18,19,69)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,11),(18,19,69),(23,24,87)); lvl=4; h,r-ind=1,1
    [3,3]((8,9,33),(3,3,11),(10,11,40)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,15),(1,0,0),(8,9,33)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((3,4,15),(5,6,22),(6,7,25)); lvl=2; h,r-ind=1,1
[5,3]((6,8,15),(1,1,2),(1,1,3),(4,5,15),(3,4,11)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,3),(8,9,22),(4,5,12),(4,5,14)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
    [3,3]((6,7,18),(4,5,12),(6,7,17)); lvl=3; h,r-ind=2,2; optimized-h
    [4,3]((1,1,3),(6,7,18),(8,9,22),(6,7,17)); lvl=3; h,r-ind=1,2
      [3,3]((7,8,20),(6,7,17),(6,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(7,8,20),(6,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,22),(7,8,20),(6,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(8,9,22),(7,8,20)); lvl=4; h,r-ind=1,1
    [3,3]((6,7,18),(4,5,12),(4,5,13)); lvl=3; h,r-ind=2,2; optimized-h
    [4,3]((1,1,3),(4,5,14),(6,7,18),(4,5,13)); lvl=3; h,r-ind=1,2
      [3,3]((4,5,14),(5,6,16),(4,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,18),(5,6,16),(4,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(6,7,18),(5,6,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,14),(5,6,16)); lvl=4; h,r-ind=1,1
  [4,3]((3,4,9),(3,4,11),(4,5,12),(4,5,14)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((3,4,11),(3,4,10),(4,5,14),(4,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,24),(4,5,13),(4,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,11),(7,9,24),(4,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(7,9,24),(4,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,11),(3,4,10),(7,9,24)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,9),(3,4,10),(4,5,12),(4,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,22),(4,5,13),(4,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(7,9,22),(4,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(7,9,22),(4,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(3,4,10),(7,9,22)); lvl=4; h,r-ind=1,1
  [3,3]((1,1,3),(4,5,15),(4,5,14)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,11),(4,5,15),(4,5,14)); lvl=2; h,r-ind=1,1
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  [5,3]((3,4,8),(3,4,9),(1,1,2),(8,9,22),(4,5,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(6,7,16),(6,7,17),(8,9,22)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((6,7,16),(7,8,19),(6,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,22),(7,8,19),(6,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(8,9,22),(7,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(6,7,16),(7,8,19)); lvl=4; h,r-ind=1,1
    [5,3]((4,5,12),(8,10,23),(6,7,16),(9,11,25),(6,7,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,14),(9,11,25),(8,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,12),(5,6,14),(8,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,12),(5,6,14),(6,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,14),(6,7,16),(9,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,14),(6,7,17),(6,7,16)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,9),(4,5,12),(8,10,23)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(6,7,16),(9,11,25),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,16),(9,11,25),(10,12,27)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,11),(9,11,25),(10,12,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(6,7,16),(10,12,27)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,11),(1,1,2),(10,12,27)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,8),(1,1,2),(4,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,9),(3,4,8),(4,5,11)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,9),(8,10,23),(9,11,25),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((12,15,34),(9,11,25),(8,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(12,15,34),(8,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,11),(12,15,34),(9,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(4,5,11),(12,15,34)); lvl=4; h,r-ind=1,1
  [3,3]((6,8,15),(3,4,8),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,3),(1,1,2),(8,9,22)); lvl=2; h,r-ind=1,1
[6,3]((4,5,16),(3,4,13),(4,5,15),(3,4,11),(2,3,8),(2,3,9)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,12),(3,4,11),(2,3,8)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,12),(2,3,9),(2,3,8)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,13),(3,4,12),(2,3,9)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,16),(3,4,13),(3,4,12)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,15),(3,4,12),(3,4,11)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,16),(4,5,15),(3,4,12)); lvl=2; h,r-ind=1,1
[4,3]((3,4,15),(3,5,15),(3,4,13),(2,3,9)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,9),(2,3,10),(3,5,15),(9,13,42)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((3,5,15),(4,6,19),(2,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((9,13,42),(4,6,19),(2,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(9,13,42),(4,6,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(3,5,15),(4,6,19)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,13),(5,7,23),(2,3,9),(9,13,42)); lvl=2; h,r-ind=1,1
    [3,3]((7,10,32),(5,7,23),(9,13,42)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(7,10,32),(9,13,42)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,13),(7,10,32),(5,7,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(3,4,13),(7,10,32)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,14),(5,7,23),(2,3,10),(9,13,42)); lvl=2; h,r-ind=1,1
    [3,3]((7,10,33),(5,7,23),(9,13,42)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(7,10,33),(9,13,42)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,14),(7,10,33),(5,7,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(3,4,14),(7,10,33)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,15),(3,4,14),(2,3,10)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,13),(3,4,14),(5,7,23)); lvl=2; h,r-ind=1,1
[4,3]((3,4,15),(15,17,60),(4,5,16),(3,4,13)); lvl=1; h,r-ind=1,1
  [4,3]((4,5,16),(4,5,17),(5,6,21),(6,7,24)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,21),(4,5,17),(14,17,58)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,20),(4,5,16),(4,5,17),(14,17,58)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((9,11,37),(4,5,16),(4,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((14,17,58),(9,11,37),(4,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,20),(14,17,58),(9,11,37)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,20),(9,11,37),(4,5,16)); lvl=4; h,r-ind=1,1
    [4,3]((6,7,24),(5,6,20),(5,6,21),(14,17,58)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,6,20),(14,17,58),(10,12,41)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,21),(14,17,58),(10,12,41)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,24),(5,6,20),(10,12,41)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,21),(6,7,24),(10,12,41)); lvl=4; h,r-ind=1,1
  [3,3]((7,8,28),(5,6,21),(6,7,24)); lvl=2; h,r-ind=1,1
  [4,3]((9,11,39),(6,7,25),(7,8,28),(5,6,21)); lvl=2; h,r-ind=1,1
    [3,3]((11,13,46),(6,7,25),(7,8,28)); lvl=3; h,r-ind=1,1
    [3,3]((11,13,46),(5,6,21),(7,8,28)); lvl=3; h,r-ind=1,1
    [3,3]((9,11,39),(11,13,46),(5,6,21)); lvl=3; h,r-ind=1,1
    [3,3]((9,11,39),(11,13,46),(6,7,25)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,15),(9,11,39),(6,7,25)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((6,7,25),(7,8,28),(15,17,60)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,13),(4,5,16),(4,5,17)); lvl=2; h,r-ind=1,1
  [4,3]((9,11,39),(8,10,35),(4,5,17),(5,6,21)); lvl=2; h,r-ind=1,1
    [3,3]((8,10,35),(4,5,17),(13,16,56)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,21),(4,5,17),(13,16,56)); lvl=3; h,r-ind=1,1
    [3,3]((9,11,39),(8,10,35),(13,16,56)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,21),(9,11,39),(13,16,56)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,13),(3,4,14),(8,10,35),(4,5,17)); lvl=2; h,r-ind=1,1
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      [3,3]((7,9,31),(3,4,14),(8,10,35)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,31),(4,5,17),(8,10,35)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(7,9,31),(4,5,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(7,9,31),(3,4,14)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,15),(9,11,39),(3,4,14),(8,10,35)); lvl=2; h,r-ind=1,1
      [4,3]((9,11,39),(4,5,18),(8,10,35),(15,19,67)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,5,18),(15,19,67),(12,15,53)); lvl=4; h,r-ind=1,1
        [3,3]((8,10,35),(15,19,67),(12,15,53)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,39),(8,10,35),(12,15,53)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,39),(4,5,18),(12,15,53)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,14),(8,10,35),(15,19,67)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,14),(4,5,18),(15,19,67)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,15),(3,4,14),(4,5,18)); lvl=3; h,r-ind=1,1
  [5,3]((15,17,60),(4,5,16),(1,1,3),(2,2,7),(4,5,15)); lvl=1; h,r-ind=1,1
    [5,3]((2,2,7),(13,14,47),(7,8,27),(6,7,24),(7,8,28)); lvl=2; h,r-ind=1,1
      [4,3]((2,2,7),(11,12,41),(10,11,37),(13,14,47)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((11,12,41),(10,11,37),(12,13,44)); lvl=4; h,r-ind=1,1
        [3,3]((13,14,47),(10,11,37),(12,13,44)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,7),(13,14,47),(12,13,44)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,7),(11,12,41),(12,13,44)); lvl=4; h,r-ind=1,1
      [5,3]((11,12,41),(17,19,65),(15,17,58),(7,8,27),(10,11,37)); lvl=3; h,r-ind=1,1
        [3,3]((9,10,34),(15,17,58),(7,8,27)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,34),(10,11,37),(7,8,27)); lvl=4; h,r-ind=1,1
        [3,3]((11,12,41),(9,10,34),(10,11,37)); lvl=4; h,r-ind=1,1
        [3,3]((17,19,65),(9,10,34),(15,17,58)); lvl=4; h,r-ind=1,1
        [3,3]((17,19,65),(11,12,41),(9,10,34)); lvl=4; h,r-ind=1,1
      [3,3]((15,17,58),(7,8,27),(6,7,24)); lvl=3; h,r-ind=1,1
      [4,3]((17,19,65),(15,17,58),(8,9,31),(6,7,24)); lvl=3; h,r-ind=1,1
        [3,3]((15,17,58),(6,7,24),(23,26,89)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,31),(6,7,24),(23,26,89)); lvl=4; h,r-ind=1,1
        [3,3]((17,19,65),(8,9,31),(23,26,89)); lvl=4; h,r-ind=1,1
        [3,3]((17,19,65),(15,17,58),(23,26,89)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,28),(8,9,31),(6,7,24)); lvl=3; h,r-ind=1,1
      [4,3]((2,2,7),(11,12,41),(17,19,65),(8,9,31)); lvl=3; h,r-ind=1,1
        [3,3]((19,21,72),(17,19,65),(11,12,41)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,7),(19,21,72),(11,12,41)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,31),(2,2,7),(19,21,72)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,31),(19,21,72),(17,19,65)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,7),(7,8,28),(8,9,31)); lvl=3; h,r-ind=1,1
    [3,3]((15,17,60),(2,2,7),(7,8,28)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,19),(7,8,27),(4,5,16),(6,7,24)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((6,7,23),(7,8,27),(6,7,24),(5,6,20)); lvl=3; h,r-ind=1,1
        [3,3]((12,14,47),(6,7,24),(7,8,27)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,23),(12,14,47),(7,8,27)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,20),(12,14,47),(6,7,24)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,23),(5,6,20),(12,14,47)); lvl=4; h,r-ind=1,1
      [4,3]((5,6,19),(4,5,16),(6,7,23),(5,6,20)); lvl=3; h,r-ind=1,1
        [3,3]((10,12,39),(5,6,20),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,19),(10,12,39),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,23),(10,12,39),(5,6,20)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,19),(6,7,23),(10,12,39)); lvl=4; h,r-ind=1,1
    [3,3]((5,6,19),(4,5,15),(4,5,16)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(5,6,19),(4,5,15)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(13,14,47),(5,6,19),(7,8,27)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [3,3]((9,10,33),(7,8,27),(10,11,37)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((1,1,3),(9,10,33),(13,14,47),(10,11,37)); lvl=3; h,r-ind=1,2
        [3,3]((9,10,33),(11,12,40),(10,11,37)); lvl=4; h,r-ind=1,1
        [3,3]((13,14,47),(11,12,40),(10,11,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(13,14,47),(11,12,40)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(9,10,33),(11,12,40)); lvl=4; h,r-ind=1,1
      [3,3]((9,10,33),(6,7,23),(7,8,27)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((1,1,3),(5,6,19),(9,10,33),(6,7,23)); lvl=3; h,r-ind=1,2
        [3,3]((5,6,19),(7,8,26),(6,7,23)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,33),(7,8,26),(6,7,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(5,6,19),(7,8,26)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,33),(1,1,3),(7,8,26)); lvl=4; h,r-ind=1,1
    [3,3]((2,2,7),(1,1,3),(13,14,47)); lvl=2; h,r-ind=1,1
  [4,3]((6,8,15),(3,4,11),(2,3,8),(0,1,0)); lvl=1; h,r-ind=1,1
    [4,3]((3,5,10),(2,3,7),(2,3,6),(3,5,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,7),(5,8,16),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(5,8,16),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,10),(2,3,7),(5,8,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(3,5,10),(5,8,16)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,5),(3,4,8),(2,3,6),(3,5,9)); lvl=2; h,r-ind=1,1
      [3,3]((4,6,11),(2,3,6),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(4,6,11),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,11),(3,5,9),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(4,6,11),(3,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,5),(3,5,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((6,8,15),(2,3,5),(3,4,8)); lvl=2; h,r-ind=1,1
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    [4,3]((3,4,11),(2,3,7),(2,3,6),(3,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,6),(7,10,23)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,10),(3,4,9),(2,3,6),(7,10,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,16),(3,4,9),(2,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((7,10,23),(5,7,16),(2,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,10),(7,10,23),(5,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,10),(5,7,16),(3,4,9)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,11),(3,4,10),(2,3,7),(7,10,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,10),(7,10,23),(5,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(7,10,23),(5,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,11),(2,3,7),(5,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,11),(3,4,10),(5,7,17)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,8),(2,3,6),(3,4,9)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(3,5,10),(1,2,4),(3,5,9)); lvl=2; h,r-ind=1,1
      [3,3]((5,9,17),(1,2,4),(3,5,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(5,9,17),(3,5,9),(3,5,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,9),(4,7,13),(3,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,17),(4,7,13),(3,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(3,5,9),(4,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,17),(1,2,3),(4,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(5,9,17),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,10),(2,3,7),(1,2,4),(2,3,8)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,11),(2,3,7),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,11),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,10),(1,2,4),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,10),(3,5,11),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,11),(2,3,7),(2,3,8)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,15),(2,3,8),(2,3,9),(0,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,4),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(6,10,27),(3,5,13),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,18),(6,10,27),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(4,7,18),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(4,7,18),(6,10,27)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,13),(2,3,8),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((6,10,27),(3,5,13),(2,3,9),(2,3,8)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,9),(5,8,22),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(5,8,22),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(6,10,27),(5,8,22)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,27),(2,3,9),(5,8,22)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(3,5,15),(6,10,27),(2,3,9)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,5,14),(3,5,15),(2,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,27),(3,5,14),(2,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(6,10,27),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(3,5,14),(3,5,15)); lvl=3; h,r-ind=1,1
```

15.26 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,5,15)); lvl=0; h,r-ind=15,15
  [5,3]((1,2,5),(2,3,8),(3,5,10),(2,3,7),(1,2,4)); lvl=1; h,r-ind=1,1
    [5,3]((1,2,5),(2,3,8),(4,7,16),(6,10,23),(5,8,19)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,12),(6,10,23),(5,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(3,5,12),(5,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,8),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,12),(4,7,16),(6,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(3,5,12),(4,7,16)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,7),(3,5,11),(6,10,23),(5,8,19)); lvl=2; h,r-ind=1,1
      [3,3]((8,13,30),(6,10,23),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(8,13,30),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,19),(8,13,30),(6,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(5,8,19),(8,13,30)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(3,5,10),(3,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(2,3,8),(5,8,19)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(3,5,11),(4,7,16),(6,10,23)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,11),(6,10,23),(7,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,16),(6,10,23),(7,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(4,7,16),(7,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,11),(7,12,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,4),(4,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,10),(3,5,11)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,5),(1,2,4)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,3),(3,4,12),(2,3,8),(2,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,12),(3,4,11),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,11),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,12),(3,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(1,1,3),(3,4,11)); lvl=2; h,r-ind=1,1
```

```
[4,3]((1,2,5),(3,5,15),(3,4,12),(2,3,8)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,8),(5,8,22),(2,3,9),(3,4,12)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((4,6,17),(5,8,22),(2,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,12),(4,6,17),(2,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,8),(3,4,12),(4,6,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,8),(4,6,17),(5,8,22)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,5),(2,3,8),(5,8,22)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,5),(5,8,22),(2,3,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,5),(3,5,15),(2,3,9)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(6,10,15),(3,5,10),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(6,10,17),(3,5,10)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,2,4),(1,2,3),(3,5,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,4),(0,1,0),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,3),(3,5,8),(6,10,17)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(6,10,15),(3,5,8),(6,11,15)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,8),(8,14,21),(6,10,15),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((7,12,18),(8,14,21),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,15),(7,12,18),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,8),(6,10,15),(7,12,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,8),(7,12,18),(8,14,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(8,14,21),(4,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(6,11,15),(4,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,8),(8,14,21)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(6,11,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,0,0),(0,1,0),(6,10,15)); lvl=1; h,r-ind=15,15
  [4,3]((2,3,3),(3,5,6),(2,3,4),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,5,6),(4,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(3,5,6),(4,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(4,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,4),(4,6,7)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(7,10,15),(2,3,4),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(7,10,15),(3,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,9),(7,9,12),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(2,3,4),(9,12,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(2,3,4),(9,12,17)); lvl=4; h,r-ind=1,1
      [4,3]((5,6,9),(3,4,6),(4,5,7),(9,12,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,6),(9,12,17),(7,9,13)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,7),(9,12,17),(7,9,13)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,9),(4,5,7),(7,9,13)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,9),(3,4,6),(7,9,13)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,7),(7,9,12),(2,3,4)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(5,6,9),(1,1,1),(7,9,12)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,1,1),(8,9,12),(4,5,7),(7,9,12)); lvl=4; h,r-ind=1,3
        [3,3]((5,6,8),(8,9,12),(4,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((7,9,12),(5,6,8),(4,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(7,9,12),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(5,6,8),(8,9,12)); lvl=5; h,r-ind=1,1
      [3,3]((2,2,3),(8,9,12),(4,5,7)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,2,3),(5,6,9),(4,5,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,1),(1,0,0),(2,2,3),(8,9,12)); lvl=4; h,r-ind=1,3
        [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,12),(2,2,3),(3,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(8,9,12),(3,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=5; h,r-ind=1,1
    [3,3]((1,1,1),(7,9,12),(2,3,4)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(3,5,6)); lvl=2; h,r-ind=3,3; optimized-h
  [5,3]((6,10,15),(6,11,15),(7,10,15),(3,5,6),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,11),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((9,16,21),(3,5,7),(5,8,11),(3,5,6)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((9,15,20),(3,5,7),(5,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((9,15,20),(3,5,6),(5,8,11)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
      [3,3]((4,7,9),(9,15,20),(3,5,6)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
      [3,3]((4,7,9),(9,15,20),(3,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((9,16,21),(4,7,9),(3,5,7)); lvl=4; h,r-ind=1,1
    [4,3]((9,16,21),(6,11,15),(3,5,7),(4,7,10)); lvl=3; h,r-ind=1,1
      [4,3]((5,9,12),(6,11,15),(4,7,10),(12,21,29)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((6,11,15),(9,16,22),(4,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((12,21,29),(9,16,22),(4,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((5,9,12),(6,11,15),(9,16,22)); lvl=5; h,r-ind=1,1
        [3,3]((12,21,29),(5,9,12),(9,16,22)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,7),(4,7,10),(12,21,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,7),(5,9,12),(12,21,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,7),(9,16,21),(5,9,12)); lvl=4; h,r-ind=1,1
    [4,3]((6,10,15),(9,14,21),(3,5,7),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(3,5,7),(12,20,29)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(12,20,29)); lvl=4; h,r-ind=1,1
      [4,3]((6,10,15),(4,7,10),(5,8,12),(12,20,29)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,7,10),(12,20,29),(9,15,22)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((5,8,12),(12,20,29),(9,15,22)); lvl=5; h,r-ind=1,1
          [3,3]((6,10,15),(5,8,12),(9,15,22)); lvl=5; h,r-ind=1,1
          [3,3]((6,10,15),(4,7,10),(9,15,22)); lvl=5; h,r-ind=1,1
        [3,3]((9,14,21),(5,8,12),(3,5,7)); lvl=4; h,r-ind=1,1
      [4,3]((9,14,21),(4,6,9),(3,5,7),(5,8,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,11,16),(4,6,9),(5,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,7),(7,11,16),(5,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((9,14,21),(7,11,16),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,7),(9,14,21),(7,11,16)); lvl=4; h,r-ind=1,1
      [4,3]((4,6,9),(5,8,11),(7,10,15),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,4),(5,8,11),(6,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(5,8,11),(6,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((7,10,15),(2,3,4),(6,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(7,10,15),(6,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(6,11,15),(3,5,6)); lvl=2; h,r-ind=9,3; optimized-h
[5,3]((1,0,0),(1,1,3),(6,10,15),(3,5,10),(2,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,6),(3,5,10),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,8),(2,3,6),(3,4,9),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,15),(2,3,7),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,8),(5,7,15),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(5,7,15),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,8),(3,4,9),(5,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,9),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(1,1,2),(3,4,8),(3,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,8),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(3,4,8),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,9),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,2),(4,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,6),(4,6,11),(3,5,10),(6,10,17)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,14),(3,5,9),(6,10,17)); lvl=3; h,r-ind=1,1
      [4,3]((7,11,20),(12,19,35),(5,8,14),(3,5,9)); lvl=3; h,r-ind=1,1
        [3,3]((12,19,35),(10,16,29),(3,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,14),(10,16,29),(3,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((7,11,20),(12,19,35),(10,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,14),(7,11,20),(10,16,29)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,6),(12,19,35),(3,5,10),(3,5,9)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((5,8,15),(3,5,9),(3,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,6),(5,8,15),(3,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((12,19,35),(5,8,15),(3,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,6),(12,19,35),(5,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,11),(7,11,20),(5,8,14)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,6),(4,6,11),(7,11,20),(12,19,35)); lvl=3; h,r-ind=1,1
        [3,3]((4,6,11),(9,14,26),(7,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((12,19,35),(9,14,26),(7,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,6),(12,19,35),(9,14,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,6),(4,6,11),(9,14,26)); lvl=4; h,r-ind=1,1
    [4,3]((5,7,13),(3,4,8),(2,3,6),(4,6,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,8),(2,3,6),(7,10,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,11),(2,3,6),(7,10,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,13),(3,4,8),(7,10,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,11),(5,7,13),(7,10,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(3,4,7),(5,7,13),(3,4,8)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,7),(5,7,13),(6,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,8),(5,7,13),(6,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,7),(6,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,8),(1,1,2),(6,8,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(7,10,15),(1,1,2),(3,4,7)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,2),(3,4,7),(7,9,15),(12,15,25)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,7),(8,10,17),(7,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((12,15,25),(8,10,17),(7,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(12,15,25),(8,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(3,4,7),(8,10,17)); lvl=4; h,r-ind=1,1
      [5,3]((3,4,6),(4,5,8),(5,7,11),(7,9,15),(12,15,25)); lvl=3; h,r-ind=1,1
        [3,3]((7,9,15),(12,15,25),(11,14,23)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(12,15,25),(11,14,23)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(3,4,6),(17,22,35)); lvl=4; h,r-ind=1,1
        [4,3]((6,8,13),(10,13,21),(7,9,15),(11,14,23)); lvl=4; h,r-ind=1,1
          [3,3]((11,14,23),(10,13,21),(17,22,36)); lvl=5; h,r-ind=1,1
          [3,3]((6,8,13),(10,13,21),(17,22,36)); lvl=5; h,r-ind=1,1
          [3,3]((7,9,15),(6,8,13),(17,22,36)); lvl=5; h,r-ind=1,1
          [3,3]((7,9,15),(11,14,23),(17,22,36)); lvl=5; h,r-ind=1,1
        [4,3]((4,5,8),(17,22,35),(10,13,21),(11,14,23)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((14,18,29),(10,13,21),(17,22,35)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,8),(14,18,29),(17,22,35)); lvl=5; h,r-ind=1,1
          [3,3]((14,18,29),(11,14,23),(10,13,21)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,8),(14,18,29),(11,14,23)); lvl=5; h,r-ind=1,1
        [5,3]((3,4,6),(17,22,35),(5,7,11),(6,8,13),(10,13,21)); lvl=4; h,r-ind=1,1
          [4,3]((9,12,19),(22,29,46),(19,25,40),(6,8,13)); lvl=5; h,r-ind=1,1
            [3,3]((28,37,59),(19,25,40),(22,29,46)); lvl=6; h,r-ind=1,1
```

```
          [3,3]((9,12,19),(28,37,59),(22,29,46)); lvl=6; h,r-ind=1,1
          [3,3]((6,8,13),(9,12,19),(28,37,59)); lvl=6; h,r-ind=1,1
          [3,3]((6,8,13),(28,37,59),(19,25,40)); lvl=6; h,r-ind=1,1
        [3,3]((10,13,21),(19,25,40),(6,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((9,12,19),(5,7,11),(6,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,6),(9,12,19),(5,7,11)); lvl=5; h,r-ind=1,1
        [4,3]((10,13,21),(22,29,46),(13,17,27),(19,25,40)); lvl=5; h,r-ind=1,1
          [3,3]((13,17,27),(32,42,67),(22,29,46)); lvl=6; h,r-ind=1,1
          [3,3]((19,25,40),(32,42,67),(22,29,46)); lvl=6; h,r-ind=1,1
          [3,3]((10,13,21),(13,17,27),(32,42,67)); lvl=6; h,r-ind=1,1
          [3,3]((19,25,40),(10,13,21),(32,42,67)); lvl=6; h,r-ind=1,1
        [3,3]((17,22,35),(10,13,21),(13,17,27)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,6),(22,29,46),(13,17,27)); lvl=5; h,r-ind=1,1
        [3,3]((17,22,35),(3,4,6),(13,17,27)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,6),(9,12,19),(22,29,46)); lvl=5; h,r-ind=1,1
    [5,3]((1,0,0),(1,1,2),(5,6,9),(4,5,8),(12,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(5,6,10),(12,15,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(5,6,10),(12,15,25)); lvl=4; h,r-ind=1,1
      [4,3]((11,13,21),(12,14,23),(4,5,8),(5,6,10)); lvl=4; h,r-ind=1,1
        [3,3]((12,14,23),(5,6,10),(16,19,31)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,8),(5,6,10),(16,19,31)); lvl=5; h,r-ind=1,1
        [3,3]((11,13,21),(12,14,23),(16,19,31)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,8),(11,13,21),(16,19,31)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,2),(8,9,15),(12,14,23),(5,6,10)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,15),(12,14,23),(13,15,25)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,10),(12,14,23),(13,15,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(5,6,10),(13,15,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(8,9,15),(13,15,25)); lvl=5; h,r-ind=1,1
      [4,3]((6,7,11),(11,13,21),(5,6,9),(4,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((11,13,21),(10,12,19),(4,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,9),(10,12,19),(4,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,11),(11,13,21),(10,12,19)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,11),(5,6,9),(10,12,19)); lvl=5; h,r-ind=1,1
      [3,3]((2,2,3),(6,7,11),(5,6,9)); lvl=4; h,r-ind=1,1
      [5,3]((2,2,3),(8,9,15),(6,7,11),(11,13,21),(12,14,23)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,13),(11,13,21),(12,14,23)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,15),(7,8,13),(12,14,23)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,11),(7,8,13),(11,13,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,3),(6,7,11),(7,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,15),(2,2,3),(7,8,13)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,2),(1,0,0),(2,2,3),(8,9,15)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,3,5),(1,0,0),(2,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,15),(3,3,5),(2,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(8,9,15),(3,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(3,3,5),(1,0,0)); lvl=5; h,r-ind=1,1
    [3,3]((3,4,6),(5,6,9),(4,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(7,10,15),(5,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,11),(3,4,7),(7,9,15)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((3,5,8),(3,4,7),(5,7,13),(4,6,11),(6,10,17)); lvl=2; h,r-ind=1,1
    [4,3]((5,7,13),(11,16,29),(3,4,7),(2,3,5)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,5),(7,10,18),(11,16,29)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,13),(7,10,18),(11,16,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,7),(2,3,5),(7,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,13),(3,4,7),(7,10,18)); lvl=4; h,r-ind=1,1
    [4,3]((5,8,14),(4,6,11),(11,16,29),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,11),(11,16,29),(6,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(11,16,29),(6,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((5,8,14),(4,6,11),(6,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(5,8,14),(6,9,16)); lvl=4; h,r-ind=1,1
    [4,3]((3,5,8),(5,8,14),(6,10,17),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,17),(5,8,14),(8,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(5,8,14),(8,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,8),(6,10,17),(8,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(3,5,8),(8,13,22)); lvl=4; h,r-ind=1,1
    [3,3]((4,6,11),(5,7,13),(11,16,29)); lvl=3; h,r-ind=1,1
  [4,3]((6,10,15),(3,5,8),(7,10,15),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,11),(3,4,7),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,9),(5,7,11),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((9,14,21),(4,6,9),(2,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((6,10,15),(9,14,21),(3,5,8),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,8,12),(10,16,25)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,8),(6,10,15),(5,8,12),(10,16,25)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((8,13,20),(6,10,15),(5,8,12)); lvl=5; h,r-ind=1,1
        [3,3]((10,16,25),(8,13,20),(5,8,12)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,8),(10,16,25),(8,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,8),(8,13,20),(6,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,8),(2,3,5),(10,16,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(9,14,21),(5,8,12)); lvl=4; h,r-ind=1,1
    [3,3]((7,10,15),(4,6,9),(5,7,11)); lvl=3; h,r-ind=1,1
```

15.27 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,7,15)); lvl=0; h,r-ind=15,75
  [4,3]((0,1,0),(2,4,5),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,5),(2,3,4),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(2,3,4),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,15),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((2,3,6),(1,1,2),(2,4,5),(1,2,3),(2,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((2,2,3),(3,4,6),(5,7,11),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,8),(5,7,11),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(4,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,8),(5,7,11)); lvl=3; h,r-ind=1,1
    [4,3]((6,9,14),(2,3,5),(5,7,11),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((7,10,16),(1,1,2),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(7,10,16),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(7,10,16),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,5),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(6,9,14),(5,8,12),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(7,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [6,3]((6,9,14),(5,8,12),(3,4,6),(3,5,7),(2,3,4),(5,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(3,5,7),(4,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(3,5,7),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(5,8,12),(2,4,5),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(4,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,6),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,15),(2,3,6),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,15),(2,3,6),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((3,8,15),(1,2,4),(0,1,0),(1,2,3)); lvl=1; h,r-ind=1,2
    [3,3]((2,5,8),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,8),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(3,8,15),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,8),(0,1,0),(1,2,3)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((1,3,5),(2,5,8),(0,1,0)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
  [3,3]((3,7,15),(3,8,15),(1,2,4)); lvl=1; h,r-ind=3,3; optimized-h
```

15.28 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,10,15)); lvl=0; h,r-ind=15,15
  [3,3]((1,2,3),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,2,3),(3,8,12),(1,2,2),(2,5,5),(1,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(4,10,13),(3,7,9),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,9),(4,10,13),(5,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(4,10,13),(5,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,9),(5,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(1,2,3),(5,12,16)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((1,3,4),(4,10,13),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,12),(1,3,4),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,8,12),(2,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(2,5,6),(4,10,13),(3,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,6),(4,10,13),(5,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(4,10,13),(5,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(5,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(1,2,2),(5,12,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(3,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,6),(4,10,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(1,3,4),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,11,15),(2,5,5),(1,3,4)); lvl=1; h,r-ind=3,3
    [4,3]((1,3,3),(1,3,4),(3,10,12),(3,10,11)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(3,10,12),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,11),(3,10,12),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,3,4),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,11),(1,3,3),(4,13,15)); lvl=3; h,r-ind=1,1
    [5,3]((1,4,5),(1,4,4),(2,7,7),(3,10,12),(3,10,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,8),(3,10,11),(2,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(1,4,4),(2,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,8),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,10,12),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,8),(3,10,12)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,7),(1,3,3),(3,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(1,3,3),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,5),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(3,11,15),(1,3,4),(3,10,12)); lvl=2; h,r-ind=1,3
      [3,3]((3,11,15),(2,7,9),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(2,7,9),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,10,12),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,11,15),(2,7,9)); lvl=3; h,r-ind=1,1
  [4,3]((3,10,15),(3,11,15),(3,8,12),(1,3,4)); lvl=1; h,r-ind=3,3
    [4,3]((2,7,10),(6,19,27),(1,3,4),(3,11,15)); lvl=2; h,r-ind=1,3
      [3,3]((6,19,27),(3,10,14),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,15),(3,10,14),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(3,11,15),(3,10,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(6,19,27),(3,10,14)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,9),(6,19,27),(3,8,12),(1,3,4)); lvl=2; h,r-ind=1,3
      [3,3]((3,9,13),(1,3,4),(6,19,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,9),(3,9,13),(6,19,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,12),(3,9,13),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,9),(3,8,12),(3,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,10),(2,6,9),(6,19,27)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((2,7,10),(3,10,15),(2,6,9)); lvl=2; h,r-ind=1,1
```

15.29 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,11,15)); lvl=0; h,r-ind=15,75
  [4,3]((2,5,5),(1,3,4),(1,2,2),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(1,2,2),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(2,4,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,3,4),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(1,4,5),(2,5,5),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,8),(1,4,5),(1,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,8),(2,7,7),(1,3,3),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(2,7,7),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,8),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(3,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,5),(1,3,3),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,5),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(2,7,8),(2,7,7),(1,4,5)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,4,4),(2,7,7),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,4),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(2,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(0,1,0),(1,4,4)); lvl=3; h,r-ind=1,1
```

```
  [3,3]((3,11,15),(1,4,5),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,11,15),(1,3,4)); lvl=1; h,r-ind=1,1
```

15.30 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,13,15)); lvl=0; h,r-ind=15,75
  [3,3]((0,1,0),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((3,10,11),(3,8,9),(2,5,5),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((3,9,10),(1,2,2),(1,1,1),(3,8,9)); lvl=2; h,r-ind=1,1
      [3,3]((4,10,11),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,10),(4,10,11),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(4,10,11),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,10),(3,8,9),(4,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,11),(3,9,10),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,11),(1,2,2),(2,5,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,8,9),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((3,14,15),(3,10,11),(0,1,0),(2,5,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,10,11),(1,3,3),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((3,12,13),(2,7,7),(3,10,11),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,7),(1,3,3),(5,18,19)); lvl=3; h,r-ind=1,1
      [4,3]((3,10,11),(3,11,12),(1,3,3),(5,18,19)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,14,15),(3,11,12),(5,18,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(4,14,15),(5,18,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,11),(1,3,3),(4,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,11),(4,14,15),(3,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,13),(3,11,12),(5,18,19)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((3,12,13),(2,7,7),(5,18,19)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,7,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,5),(3,14,15),(3,12,13),(2,7,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,4),(3,13,14),(3,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,7),(1,4,4),(3,12,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,5),(1,4,4),(3,14,15),(3,13,14)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,4),(3,13,14),(4,18,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,15),(3,13,14),(4,18,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(3,14,15),(4,18,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(1,4,4),(4,18,19)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(2,7,7)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((3,10,11),(2,7,8),(4,15,17),(3,8,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,8),(4,15,17),(7,24,27)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,11),(4,15,17),(7,24,27)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((3,8,9),(3,9,10),(2,7,8),(7,24,27)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,9,10),(7,24,27),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(7,24,27),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(2,7,8),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(3,9,10),(5,16,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,11),(3,9,10),(7,24,27)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(2,7,8),(3,8,9)); lvl=1; h,r-ind=1,1
  [3,3]((3,13,15),(2,7,8),(4,15,17)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,13,15),(2,7,8)); lvl=1; h,r-ind=1,1
  [4,3]((3,13,15),(3,14,15),(3,10,11),(4,15,17)); lvl=1; h,r-ind=1,1
    [3,3]((3,10,11),(2,8,9),(3,12,13)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,9,10),(3,14,15),(2,8,9),(3,12,13)); lvl=2; h,r-ind=1,1
      [4,3]((7,30,33),(3,13,14),(2,8,9),(3,12,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,8,9),(5,21,23),(3,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,14),(5,21,23),(3,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((7,30,33),(3,13,14),(5,21,23)); lvl=4; h,r-ind=1,1
        [3,3]((7,30,33),(2,8,9),(5,21,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,10),(7,30,33),(2,8,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,10),(7,30,33),(3,14,15),(3,13,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,30,33),(5,22,24),(3,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,15),(5,22,24),(3,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(3,14,15),(5,22,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(7,30,33),(5,22,24)); lvl=4; h,r-ind=1,1
    [3,3]((3,13,15),(2,9,10),(2,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,17),(3,10,11),(2,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,13,15),(4,15,17),(2,8,9)); lvl=2; h,r-ind=1,1
```

15.31 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,14,15)); lvl=0; h,r-ind=15,75
  [3,3]((0,1,0),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,14,15),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
```

```
  [3,3]((1,0,0),(3,14,15),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,5),(2,5,5)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((3,14,15),(1,5,5),(2,5,5)); lvl=1; h,r-ind=5,5; optimized-h
```

15.32 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,4,15)); lvl=0; h,r-ind=15,225
  [3,3]((1,0,0),(2,2,7),(3,3,11)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,7),(3,3,11)); lvl=1; h,r-ind=1,1
  [3,3]((4,4,15),(0,1,0),(3,3,11)); lvl=1; h,r-ind=1,1
  [3,3]((4,4,15),(1,0,0),(3,3,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,3),(1,0,0),(2,2,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,3),(2,2,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(1,0,0)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((0,1,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
```

15.33 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,5,15)); lvl=0; h,r-ind=15,45
  [3,3]((3,4,6),(0,1,0),(1,0,0)); lvl=1; h,r-ind=6,6; optimized-h
  [4,3]((1,1,3),(3,4,6),(3,4,8),(1,0,0)); lvl=1; h,r-ind=2,4
    [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,7),(1,1,2),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(3,4,7),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,8),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,0,0),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,6),(3,4,6),(3,4,8),(0,1,0)); lvl=1; h,r-ind=2,1
    [4,3]((1,2,3),(2,3,5),(0,1,0),(3,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(0,1,0),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(0,1,0),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,10),(1,2,2),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(4,7,10),(2,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(3,5,6),(1,2,2)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,5),(3,4,7),(3,4,6),(3,5,6)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,4),(3,4,7),(7,10,16),(3,4,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,11),(3,4,7),(7,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(5,7,11),(7,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(5,7,11),(3,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,6),(5,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(2,3,4),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(3,4,7),(7,10,16)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,8),(2,3,5),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(3,4,8),(2,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,6),(2,3,7),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,5,15),(2,3,7),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,1,3),(2,3,6),(3,4,8),(2,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,9),(3,4,8),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,9),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,7),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,9),(3,4,8)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,15),(1,1,3),(2,3,7)); lvl=1; h,r-ind=2,2; optimized-h
```

15.34 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,6,15)); lvl=0; h,r-ind=15,75
  [4,3]((5,7,15),(3,4,8),(1,1,2),(3,4,9)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,8),(1,1,2),(6,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,9),(1,1,2),(6,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,15),(3,4,9),(6,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,15),(3,4,8),(6,8,17)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(5,6,15),(1,1,2),(3,4,9)); lvl=1; h,r-ind=1,1
    [4,3]((4,5,12),(2,2,5),(8,9,21),(5,6,14)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((7,8,19),(2,2,5),(8,9,21)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,19),(5,6,14),(8,9,21)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(7,8,19),(5,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(7,8,19),(2,2,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(3,4,9),(8,9,21),(5,6,14)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,14),(3,4,9),(6,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,9),(6,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,21),(1,1,2),(6,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,21),(5,6,14),(6,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,9),(4,5,12),(5,6,14)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,15),(4,5,12),(2,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(1,0,0),(2,2,5),(8,9,21)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,2,5),(1,0,0),(3,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,0,0),(3,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,21),(2,2,5),(3,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(8,9,21),(3,3,7)); lvl=3; h,r-ind=1,1
  [4,3]((4,6,15),(2,3,7),(5,6,15),(3,4,9)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,12),(6,8,19),(3,4,9)); lvl=2; h,r-ind=1,1
    [4,3]((11,15,36),(2,3,7),(6,8,19),(3,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((6,8,19),(3,4,9),(8,11,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(3,4,9),(8,11,26)); lvl=3; h,r-ind=1,1
      [3,3]((11,15,36),(6,8,19),(8,11,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(11,15,36),(8,11,26)); lvl=3; h,r-ind=1,1
    [4,3]((4,6,15),(3,4,10),(11,15,36),(2,3,7)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,4,10),(5,7,17),(11,15,36)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,17),(11,15,36)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,15),(2,3,7),(5,7,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,15),(3,4,10),(5,7,17)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,10),(11,15,36),(4,5,12),(6,8,19)); lvl=2; h,r-ind=1,1
      [3,3]((11,15,36),(9,12,29),(6,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(9,12,29),(6,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(4,5,12),(9,12,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(11,15,36),(9,12,29)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,15),(3,4,10),(4,5,12)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,7),(5,7,15),(4,6,13),(3,4,9)); lvl=1; h,r-ind=1,1
    [3,3]((7,10,22),(5,7,15),(4,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(7,10,22),(4,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,9),(2,3,7),(7,10,22)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,9),(7,10,22),(5,7,15)); lvl=2; h,r-ind=1,1
  [5,3]((2,3,5),(3,4,8),(2,3,4),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(3,4,7),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,7),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(4,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,5),(5,7,11),(3,4,7),(6,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((8,11,18),(6,8,13),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(8,11,18),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(8,11,18),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,7,11),(8,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,4),(5,7,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(4,5,8),(5,7,11),(6,8,13)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,6),(4,5,8),(6,8,13),(14,19,30)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,12,19),(4,5,8),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((14,19,30),(9,12,19),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(14,19,30),(9,12,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(9,12,19),(4,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(6,8,13),(14,19,30)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,11),(2,3,4),(3,4,6),(14,19,30)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,6),(2,3,4),(8,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(2,3,4),(8,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((14,19,30),(3,4,6),(8,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(14,19,30),(8,11,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(4,5,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,1,2),(4,5,8),(3,4,7),(6,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,7),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,8),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,7),(7,9,15)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,3,4),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
  [6,3]((1,2,3),(5,7,15),(2,3,5),(3,4,8),(4,6,13),(3,5,10)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,6),(3,4,8),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,10),(1,2,3),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,15),(2,3,6),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,15),(4,6,13),(2,3,6)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((3,5,10),(4,6,13),(2,3,6)); lvl=2; h,r-ind=1,1
  [5,3]((4,7,14),(5,8,18),(2,3,7),(4,6,13),(3,5,10)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,10),(5,8,17),(4,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(5,8,17),(4,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,18),(2,3,7),(8,13,28)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,10),(9,15,31),(5,8,17),(11,18,38)); lvl=2; h,r-ind=1,1
      [3,3]((11,18,38),(9,15,31),(14,23,48)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,10),(9,15,31),(14,23,48)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,17),(3,5,10),(14,23,48)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,17),(11,18,38),(14,23,48)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,14),(3,5,10),(9,15,31)); lvl=2; h,r-ind=1,1
    [4,3]((4,7,14),(8,13,28),(9,15,31),(11,18,38)); lvl=2; h,r-ind=1,1
      [4,3]((6,10,21),(8,13,28),(11,18,38),(26,43,90)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((17,28,59),(11,18,38),(8,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,21),(17,28,59),(8,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((17,28,59),(26,43,90),(11,18,38)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,21),(17,28,59),(26,43,90)); lvl=4; h,r-ind=1,1
      [3,3]((9,15,31),(11,18,38),(26,43,90)); lvl=3; h,r-ind=1,1
      [4,3]((9,15,31),(4,7,14),(6,10,21),(26,43,90)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,7,14),(15,25,52),(6,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((26,43,90),(15,25,52),(6,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((9,15,31),(4,7,14),(15,25,52)); lvl=4; h,r-ind=1,1
        [3,3]((26,43,90),(9,15,31),(15,25,52)); lvl=4; h,r-ind=1,1
    [3,3]((5,8,18),(4,7,14),(8,13,28)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,3,7),(8,13,28),(5,8,17),(11,18,38)); lvl=2; h,r-ind=1,1
      [3,3]((11,18,38),(8,13,28),(13,21,45)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(8,13,28),(13,21,45)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,17),(2,3,7),(13,21,45)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,17),(11,18,38),(13,21,45)); lvl=3; h,r-ind=1,1
  [4,3]((4,6,15),(0,1,0),(4,7,14),(5,8,18)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,14),(3,5,11),(2,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,5,11),(2,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,15),(0,1,0),(3,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,18),(4,7,14),(3,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,15),(5,8,18),(3,5,11)); lvl=2; h,r-ind=1,1
  [3,3]((4,6,15),(5,8,18),(2,3,7)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(4,7,14),(1,2,3),(3,5,10)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,7),(4,7,14),(3,5,10),(6,11,20)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,9,17),(3,5,10),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(5,9,17),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,20),(5,9,17),(3,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(6,11,20),(5,9,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,10),(6,11,20)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(2,4,7),(6,11,20)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,6,10),(1,2,3),(6,11,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,10),(2,4,7),(6,11,20)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(3,6,10),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(3,6,10),(1,2,3)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,3),(2,3,5),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(2,3,4),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,4),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(1,2,2),(3,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,2),(1,2,3),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
```

15.35 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,9,15)); lvl=0; h,r-ind=15,75
  [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(2,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(5,9,15),(1,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,9,15),(5,9,15),(1,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,2,3),(2,5,7),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,7),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,3),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,9,14),(1,2,3),(2,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((4,9,15),(4,9,14),(1,2,3)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((4,9,15),(4,9,14),(2,5,7)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,9,15),(2,5,7),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
```

15.36 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,12,15)); lvl=0; h,r-ind=15,75
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((5,13,15),(2,5,6),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,2
    [3,3]((2,5,6),(1,1,1),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,1,1),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((5,13,15),(2,5,6),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(5,13,15),(3,7,8)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(5,12,15),(2,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(5,12,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(5,10,12),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,12),(1,1,1),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(1,0,0),(5,10,12),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(3,5,6),(1,0,0)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,5,6),(1,0,0)); lvl=3; h,r-ind=1,1
      [3,3]((5,10,12),(1,1,1),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(5,10,12),(3,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((2,6,7),(5,13,15),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,5
    [3,3]((3,8,9),(5,13,15),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(4,11,12),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,12),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(4,11,12),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,6,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(3,8,9),(4,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(3,8,9),(5,13,15)); lvl=2; h,r-ind=1,1
  [4,3]((3,9,11),(2,6,7),(5,13,15),(2,5,6)); lvl=1; h,r-ind=1,2
    [3,3]((2,6,7),(5,13,15),(4,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(5,13,15),(4,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,11),(2,5,6),(4,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,11),(2,6,7),(4,11,13)); lvl=2; h,r-ind=1,1
  [4,3]((4,12,15),(5,12,15),(3,9,11),(2,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(5,12,15),(3,8,10)); lvl=2; h,r-ind=1,1
    [3,3]((8,22,27),(2,5,6),(3,8,10)); lvl=2; h,r-ind=1,1
    [4,3]((4,12,15),(8,22,27),(3,9,11),(3,8,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,9,11),(8,22,27),(6,17,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(8,22,27),(6,17,21)); lvl=3; h,r-ind=1,1
      [3,3]((4,12,15),(3,8,10),(6,17,21)); lvl=3; h,r-ind=1,1
      [3,3]((4,12,15),(3,9,11),(6,17,21)); lvl=3; h,r-ind=1,1
    [3,3]((8,22,27),(3,9,11),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((3,9,11),(2,6,7),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,12,15),(3,9,11),(0,1,0)); lvl=1; h,r-ind=1,1
```

15.37 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,6,15)); lvl=0; h,r-ind=15,15
  [3,3]((1,1,2),(0,1,0),(5,7,15)); lvl=1; h,r-ind=5,5; optimized-h
  [4,3]((2,2,5),(5,6,15),(1,1,2),(5,7,15)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,2),(8,9,21),(3,4,9),(7,9,21)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,9),(9,11,25),(5,6,14),(7,9,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,11,25),(8,10,23),(5,6,14)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,21),(8,10,23),(5,6,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(7,9,21),(8,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(9,11,25),(8,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(9,11,25),(5,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(1,1,2),(9,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,6,14),(8,9,21)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,5),(8,9,21),(5,6,15),(7,9,21)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((4,5,12),(7,9,21),(5,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((13,15,36),(4,5,12),(5,6,14)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((2,2,5),(8,9,21),(13,15,36),(5,6,14)); lvl=3; h,r-ind=1,3
        [3,3]((7,8,19),(5,6,14),(8,9,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,5),(7,8,19),(8,9,21)); lvl=4; h,r-ind=1,1
        [3,3]((13,15,36),(7,8,19),(5,6,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,5),(13,15,36),(7,8,19)); lvl=4; h,r-ind=1,1
      [4,3]((2,2,5),(5,6,15),(13,15,36),(4,5,12)); lvl=3; h,r-ind=1,3
        [3,3]((6,7,17),(4,5,12),(5,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,5),(6,7,17),(5,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((13,15,36),(6,7,17),(4,5,12)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((2,2,5),(13,15,36),(6,7,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,5),(8,9,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(5,7,15),(3,4,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,5),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(0,1,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
```

15.38 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,7,15)); lvl=0; h,r-ind=15,45
  [3,3]((1,1,2),(0,1,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,9),(1,1,2),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,3,6),(3,5,9),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((5,7,15),(2,3,6),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(5,7,15),(1,1,2)); lvl=1; h,r-ind=1,1
```

15.39 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,9,15)); lvl=0; h,r-ind=15,15
  [5,3]((1,2,3),(5,7,10),(7,9,12),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,5),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,4),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,10),(1,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(7,9,12),(6,8,11),(3,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((9,12,16),(7,9,12),(6,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(9,12,16),(6,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,16),(3,4,5),(7,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(9,12,16),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,10),(2,3,4),(6,8,11)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(5,9,15),(2,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((7,9,12),(1,0,0),(2,3,3)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((3,4,6),(5,7,10),(7,9,12),(1,0,0)); lvl=1; h,r-ind=2,1
    [4,3]((4,5,7),(8,9,12),(6,8,11),(7,9,12)); lvl=2; h,r-ind=1,1
      [4,3]((6,8,11),(15,19,26),(5,6,8),(7,9,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((15,19,26),(11,14,19),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,12),(11,14,19),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,11),(7,9,12),(11,14,19)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,11),(15,19,26),(11,14,19)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,7),(6,8,11),(15,19,26)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(15,19,26),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(5,6,8),(8,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,10),(4,5,7),(6,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(5,7,10),(4,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,2,3),(4,5,7),(8,9,12)); lvl=2; h,r-ind=1,1
      [3,3]((9,10,14),(4,5,7),(2,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(3,3,4),(9,10,14),(2,2,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,5,7),(3,3,4),(9,10,14)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,7),(2,2,3),(9,10,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(5,5,7),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(5,5,7),(3,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,4),(9,10,14),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,12),(3,3,4),(4,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(2,2,3),(4,5,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,5),(3,4,6),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,2,3),(2,3,5),(3,4,6),(5,7,10)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,9),(2,3,5),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,10),(4,6,9),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(5,7,10),(4,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(4,6,9),(2,3,5)); lvl=2; h,r-ind=1,1
```

15.40 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,11,15)); lvl=0; h,r-ind=15,45
  [4,3]((2,3,3),(7,12,15),(3,4,5),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((3,5,6),(10,15,18),(5,8,10),(6,9,11)); lvl=2; h,r-ind=1,1
      [3,3]((10,15,18),(9,14,17),(6,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,10),(9,14,17),(6,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(10,15,18),(9,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,10),(3,5,6),(9,14,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(5,8,10),(6,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(3,4,5),(10,15,18),(6,9,11)); lvl=2; h,r-ind=1,1
      [3,3]((7,10,12),(6,9,11),(10,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(7,10,12),(10,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(7,10,12),(6,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(7,10,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(2,3,3),(3,5,6),(10,15,18)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((4,6,7),(3,5,6),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(4,6,7),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((10,15,18),(4,6,7),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(10,15,18),(4,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,6),(7,12,15),(5,8,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,4,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,3),(5,12,15),(7,12,15)); lvl=1; h,r-ind=3,3
    [4,3]((2,3,3),(3,5,6),(4,8,9),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,8),(3,5,6),(4,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,8),(1,2,2),(4,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(4,7,8),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(4,7,8),(3,5,6)); lvl=3; h,r-ind=1,1
    [5,3]((0,1,0),(3,8,9),(3,7,8),(4,8,9),(1,2,2)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,8),(4,10,11),(8,19,21),(3,8,9)); lvl=3; h,r-ind=1,1
        [3,3]((8,19,21),(7,17,19),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(7,17,19),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,8),(3,8,9),(7,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,8),(8,19,21),(7,17,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(4,10,11),(3,8,9)); lvl=3; h,r-ind=1,1
      [5,3]((1,3,3),(10,23,25),(6,14,15),(4,10,11),(8,19,21)); lvl=3; h,r-ind=1,1
        [3,3]((5,12,13),(10,23,25),(9,21,23)); lvl=4; h,r-ind=1,1
        [3,3]((8,19,21),(5,12,13),(9,21,23)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,11),(8,19,21),(5,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(4,10,11),(5,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,15),(5,12,13),(10,23,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(6,14,15),(5,12,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,2),(5,11,12),(10,23,25),(6,14,15)); lvl=3; h,r-ind=1,1
        [3,3]((5,11,12),(10,23,25),(11,25,27)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,15),(10,23,25),(11,25,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(5,11,12),(11,25,27)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,15),(1,2,2),(11,25,27)); lvl=4; h,r-ind=1,1
      [4,3]((0,1,0),(1,3,3),(1,2,2),(6,14,15)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((1,3,3),(2,5,5),(6,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,5,5),(6,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,3,3),(2,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(0,1,0),(2,5,5)); lvl=4; h,r-ind=1,1
      [5,3]((3,7,8),(5,11,12),(10,23,25),(8,19,21),(4,8,9)); lvl=3; h,r-ind=1,1
        [3,3]((4,9,10),(8,19,21),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((4,8,9),(4,9,10),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,10),(8,19,21),(9,21,23)); lvl=4; h,r-ind=1,1
        [3,3]((10,23,25),(4,9,10),(9,21,23)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,12),(10,23,25),(4,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,8,9),(5,11,12),(4,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(5,11,12),(4,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(3,8,9),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,5,6),(4,8,9)); lvl=2; h,r-ind=2,2; optimized-h
    [4,3]((2,4,5),(2,5,6),(3,7,8),(4,8,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,8),(2,5,6),(8,18,21)); lvl=3; h,r-ind=1,1
      [4,3]((2,4,5),(3,6,7),(2,5,6),(8,18,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,11,13),(3,6,7),(8,18,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(5,11,13),(8,18,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(5,11,13),(3,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(2,4,5),(5,11,13)); lvl=4; h,r-ind=1,1
      [4,3]((4,8,9),(3,6,7),(3,7,8),(8,18,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,13,15),(3,6,7),(8,18,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,8),(6,13,15),(8,18,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,8,9),(6,13,15),(3,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,8),(4,8,9),(6,13,15)); lvl=4; h,r-ind=1,1
    [3,3]((5,12,15),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(7,12,15),(3,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((5,11,15),(5,9,12),(5,12,15),(7,12,15)); lvl=1; h,r-ind=3,3
    [4,3]((5,9,12),(4,7,9),(8,16,21),(3,6,8)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((7,13,17),(4,7,9),(8,16,21)); lvl=3; h,r-ind=1,1
      [3,3]((7,13,17),(3,6,8),(8,16,21)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,12),(7,13,17),(3,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,12),(7,13,17),(4,7,9)); lvl=3; h,r-ind=1,1
    [5,3]((5,11,15),(6,13,17),(7,16,21),(8,16,21),(3,6,8)); lvl=2; h,r-ind=1,1
      [5,3]((6,13,17),(8,16,21),(25,53,70),(12,25,33),(19,41,54)); lvl=3; h,r-ind=1,1
        [3,3]((12,25,33),(8,16,21),(9,19,25)); lvl=4; h,r-ind=1,1
        [3,3]((6,13,17),(8,16,21),(9,19,25)); lvl=4; h,r-ind=1,1
        [3,3]((12,25,33),(25,53,70),(9,19,25)); lvl=4; h,r-ind=1,1
        [3,3]((22,47,62),(25,53,70),(9,19,25)); lvl=4; h,r-ind=1,1
        [3,3]((22,47,62),(19,41,54),(9,19,25)); lvl=4; h,r-ind=1,1
        [3,3]((6,13,17),(19,41,54),(9,19,25)); lvl=4; h,r-ind=1,1
      [5,3]((10,22,29),(4,9,12),(25,53,70),(16,34,45),(19,41,54)); lvl=3; h,r-ind=1,1
        [3,3]((13,28,37),(16,34,45),(4,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((10,22,29),(13,28,37),(4,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((10,22,29),(19,41,54),(13,28,37)); lvl=4; h,r-ind=1,1
        [3,3]((13,28,37),(16,34,45),(25,53,70)); lvl=4; h,r-ind=1,1
        [3,3]((22,47,62),(13,28,37),(25,53,70)); lvl=4; h,r-ind=1,1
        [3,3]((19,41,54),(22,47,62),(13,28,37)); lvl=4; h,r-ind=1,1
      [4,3]((6,13,17),(7,16,21),(10,22,29),(19,41,54)); lvl=3; h,r-ind=1,1
        [3,3]((16,35,46),(7,16,21),(10,22,29)); lvl=4; h,r-ind=1,1
        [3,3]((19,41,54),(16,35,46),(10,22,29)); lvl=4; h,r-ind=1,1
        [3,3]((6,13,17),(19,41,54),(16,35,46)); lvl=4; h,r-ind=1,1
        [3,3]((6,13,17),(16,35,46),(7,16,21)); lvl=4; h,r-ind=1,1
      [3,3]((7,16,21),(10,22,29),(4,9,12)); lvl=3; h,r-ind=1,1
      [4,3]((3,6,8),(25,53,70),(16,34,45),(12,25,33)); lvl=3; h,r-ind=1,1
        [3,3]((16,34,45),(25,53,70),(28,59,78)); lvl=4; h,r-ind=1,1
        [3,3]((12,25,33),(25,53,70),(28,59,78)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,8),(12,25,33),(28,59,78)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,8),(16,34,45),(28,59,78)); lvl=4; h,r-ind=1,1
      [3,3]((8,16,21),(3,6,8),(12,25,33)); lvl=3; h,r-ind=1,1
      [4,3]((5,11,15),(4,9,12),(3,6,8),(16,34,45)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((7,15,20),(4,9,12),(16,34,45)); lvl=4; h,r-ind=1,1
        [3,3]((7,15,20),(3,6,8),(16,34,45)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,15),(7,15,20),(3,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,15),(7,15,20),(4,9,12)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,9),(6,13,17),(7,16,21)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,15),(5,9,12),(3,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(2,4,5),(8,16,21)); lvl=2; h,r-ind=2,2; optimized-h
    [4,3]((3,7,9),(6,13,17),(2,4,5),(8,16,21)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,9),(14,30,39),(2,4,5),(5,10,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,17,22),(2,4,5),(5,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((14,30,39),(8,17,22),(5,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(14,30,39),(8,17,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(8,17,22),(2,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((6,13,17),(14,30,39),(8,16,21),(5,10,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((11,23,30),(5,10,13),(8,16,21)); lvl=4; h,r-ind=1,1
        [3,3]((6,13,17),(11,23,30),(8,16,21)); lvl=4; h,r-ind=1,1
        [3,3]((14,30,39),(11,23,30),(5,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((6,13,17),(14,30,39),(11,23,30)); lvl=4; h,r-ind=1,1
      [3,3]((6,13,17),(3,7,9),(14,30,39)); lvl=3; h,r-ind=1,1
    [3,3]((5,12,15),(3,7,9),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(2,4,5),(7,12,15)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,4),(5,9,12),(7,12,15),(3,4,5)); lvl=1; h,r-ind=1,1
    [4,3]((7,11,14),(5,8,10),(4,7,9),(13,21,27)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,9),(11,18,23),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,14),(11,18,23),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,14),(13,21,27),(11,18,23)); lvl=3; h,r-ind=1,1
      [3,3]((13,21,27),(4,7,9),(11,18,23)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,4),(5,9,12),(4,7,9),(13,21,27)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((4,7,9),(6,10,13),(5,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(6,10,13),(5,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((13,21,27),(4,7,9),(6,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(13,21,27),(6,10,13)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,5),(2,3,4),(7,11,14),(13,21,27)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(13,21,27),(9,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,14),(13,21,27),(9,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(7,11,14),(9,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(9,14,18)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,10),(7,12,15),(4,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(7,11,14),(5,8,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,4),(3,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((5,11,15),(2,3,4),(5,9,12)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(5,11,15),(2,3,4)); lvl=1; h,r-ind=1,1
```

15.41 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,12,15)); lvl=0; h,r-ind=15,15
  [4,3]((2,4,5),(4,7,8),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,8),(3,5,6),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,5,6),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(1,0,0),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(4,7,8),(3,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((2,4,5),(5,12,15),(2,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((5,9,10),(4,7,8),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,8),(1,1,1),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,10),(4,7,8),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(5,9,10),(6,10,11)); lvl=2; h,r-ind=1,1
  [5,3]((2,4,5),(2,5,6),(3,7,8),(5,9,10),(4,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((3,6,7),(3,7,8),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(3,7,8),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(4,8,9),(5,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(3,6,7),(5,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(4,7,8),(3,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((3,8,9),(2,5,6),(3,7,8)); lvl=1; h,r-ind=1,1
  [5,3]((0,1,0),(3,8,9),(3,7,8),(5,9,10),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,9),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,8),(3,8,9),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,8),(4,8,9),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,9),(5,9,10),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(5,9,10),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
```

15.42 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,13,15)); lvl=0; h,r-ind=15,45
  [4,3]((4,8,9),(5,10,11),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((6,11,12),(5,10,11),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(6,11,12),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,9),(1,1,1),(6,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,9),(6,11,12),(5,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,8,9),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [5,3]((4,11,12),(1,3,3),(4,9,10),(5,10,11),(2,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((10,21,23),(5,10,11),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,10,11),(2,3,3),(6,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(6,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((10,21,23),(5,10,11),(6,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(10,21,23),(6,12,13)); lvl=3; h,r-ind=1,1
    [4,3]((4,10,11),(4,9,10),(10,21,23),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,12),(4,9,10),(10,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,12),(1,2,2),(10,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,11),(5,11,12),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,11),(5,11,12),(4,9,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(4,11,12),(4,10,11),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((4,11,12),(4,10,11),(5,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,10,11),(5,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(4,11,12),(5,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(5,13,14)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,10),(10,21,23),(5,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,3),(0,1,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((3,7,8),(4,8,9),(4,9,10),(5,10,11)); lvl=1; h,r-ind=1,1
    [3,3]((5,10,11),(4,8,9),(8,17,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,8),(4,8,9),(8,17,19)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,10),(3,7,8),(8,17,19)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,10),(5,10,11),(8,17,19)); lvl=2; h,r-ind=1,1
  [4,3]((5,13,15),(4,11,12),(3,7,8),(4,9,10)); lvl=1; h,r-ind=1,1
    [3,3]((4,10,11),(7,17,19),(4,9,10)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,8),(13,32,36),(7,17,19),(4,9,10)); lvl=2; h,r-ind=1,1
      [3,3]((10,24,27),(13,32,36),(7,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,10),(10,24,27),(7,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(4,9,10),(10,24,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(10,24,27),(13,32,36)); lvl=3; h,r-ind=1,1
    [4,3]((3,8,9),(13,32,36),(4,10,11),(7,17,19)); lvl=2; h,r-ind=1,1
      [3,3]((13,32,36),(10,25,28),(7,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,11),(10,25,28),(7,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(4,10,11),(10,25,28)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(13,32,36),(10,25,28)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((4,11,12),(3,8,9),(4,10,11)); lvl=2; h,r-ind=1,1
    [4,3]((5,13,15),(3,7,8),(3,8,9),(13,32,36)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,7,8),(13,32,36),(6,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(13,32,36),(6,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,15),(3,7,8),(6,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(5,13,15),(6,15,17)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(3,7,8),(4,8,9)); lvl=1; h,r-ind=1,1
  [3,3]((5,13,15),(1,0,0),(3,7,8)); lvl=1; h,r-ind=1,1
```

15.43 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,14,15)); lvl=0; h,r-ind=15,45
  [3,3]((2,3,3),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((5,14,15),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(5,14,15),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(2,3,3),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,14,15),(1,3,3),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

15.44 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,7,15)); lvl=0; h,r-ind=15,75
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(6,8,15),(1,1,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((6,7,15),(6,8,15),(1,1,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((6,7,15),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
```

15.45 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,10,15)); lvl=0; h,r-ind=15,15
  [4,3]((2,3,3),(3,5,6),(2,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(3,5,6),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(3,5,6),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,4),(4,6,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(7,10,15),(2,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(7,10,15),(3,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,9),(7,9,12),(2,3,4),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,7),(2,3,4),(9,12,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(2,3,4),(9,12,17)); lvl=3; h,r-ind=1,1
      [4,3]((5,6,9),(3,4,6),(4,5,7),(9,12,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,6),(9,12,17),(7,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(9,12,17),(7,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,9),(4,5,7),(7,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,9),(3,4,6),(7,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,7),(7,9,12),(2,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(5,6,9),(1,1,1),(7,9,12)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,1,1),(8,9,12),(4,5,7),(7,9,12)); lvl=3; h,r-ind=1,3
        [3,3]((5,6,8),(8,9,12),(4,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,12),(5,6,8),(4,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(7,9,12),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(5,6,8),(8,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(8,9,12),(4,5,7)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,2,3),(5,6,9),(4,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(1,0,0),(2,2,3),(8,9,12)); lvl=3; h,r-ind=1,3
        [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,12),(2,2,3),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(8,9,12),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,1),(7,9,12),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(3,5,6)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((6,10,15),(6,11,15),(7,10,15),(3,5,6),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,11),(2,3,4),(3,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((9,16,21),(3,5,7),(5,8,11),(3,5,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((9,15,20),(3,5,7),(5,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((9,15,20),(3,5,6),(5,8,11)); lvl=3; h,r-ind=2,2; alert-h-inc; optimized-h
```

```
      [3,3]((4,7,9),(9,15,20),(3,5,6)); lvl=3; h,r-ind=2,2; alert-h-inc; optimized-h
      [3,3]((4,7,9),(9,15,20),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((9,16,21),(4,7,9),(3,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((9,16,21),(6,11,15),(3,5,7),(4,7,10)); lvl=2; h,r-ind=1,1
      [4,3]((5,9,12),(6,11,15),(4,7,10),(12,21,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,11,15),(9,16,22),(4,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((12,21,29),(9,16,22),(4,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,12),(6,11,15),(9,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((12,21,29),(5,9,12),(9,16,22)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,7),(4,7,10),(12,21,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(5,9,12),(12,21,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(9,16,21),(5,9,12)); lvl=3; h,r-ind=1,1
    [4,3]((6,10,15),(9,14,21),(3,5,7),(4,7,10)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(3,5,7),(12,20,29)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(12,20,29)); lvl=3; h,r-ind=1,1
      [4,3]((6,10,15),(4,7,10),(5,8,12),(12,20,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,7,10),(12,20,29),(9,15,22)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,12),(12,20,29),(9,15,22)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,15),(5,8,12),(9,15,22)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,15),(4,7,10),(9,15,22)); lvl=4; h,r-ind=1,1
      [3,3]((9,14,21),(5,8,12),(3,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((9,14,21),(4,6,9),(3,5,7),(5,8,11)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,11,16),(4,6,9),(5,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(7,11,16),(5,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((9,14,21),(7,11,16),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(9,14,21),(7,11,16)); lvl=3; h,r-ind=1,1
    [4,3]((4,6,9),(5,8,11),(7,10,15),(2,3,4)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,4),(5,8,11),(6,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(5,8,11),(6,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,15),(2,3,4),(6,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(7,10,15),(6,9,13)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(6,11,15),(3,5,6)); lvl=1; h,r-ind=9,3; optimized-h
```

15.46 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,11,15)); lvl=0; h,r-ind=15,75
  [3,3]((1,0,0),(3,4,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,6),(2,3,3),(3,4,5),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,7),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(4,6,7),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(3,4,5),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,6,7),(2,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,5,6),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,4),(3,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,6),(6,10,13),(2,3,4),(3,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((6,10,13),(5,8,10),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(5,8,10),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(6,10,13),(5,8,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(3,5,6),(5,8,10)); lvl=2; h,r-ind=1,1
  [3,3]((6,10,13),(7,12,16),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((6,11,15),(7,12,16),(2,3,4)); lvl=1; h,r-ind=1,1
  [5,3]((5,9,12),(2,4,5),(3,5,6),(6,10,13),(7,12,16)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,9),(3,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,12),(4,7,9),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,12),(4,7,9),(7,12,16)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(3,5,6),(6,10,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(7,12,16),(6,10,13)); lvl=2; h,r-ind=1,1
  [3,3]((6,11,15),(5,9,12),(7,12,16)); lvl=1; h,r-ind=1,1
  [3,3]((6,11,15),(5,9,12),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,5),(3,5,6)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((6,11,15),(1,0,0),(2,3,4)); lvl=1; h,r-ind=1,1
```

15.47 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,14,15)); lvl=0; h,r-ind=15,75
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((6,14,15),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((6,14,15),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((6,14,15),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((6,14,15),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

15.48 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,7,15)); lvl=0; h,r-ind=15,225
  [3,3]((1,1,2),(0,1,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,7,15),(1,1,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(7,7,15),(1,1,2)); lvl=1; h,r-ind=1,1
```

15.49 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,11,15)); lvl=0; h,r-ind=15,225
  [4,3]((3,4,5),(4,6,7),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(4,6,7),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(4,6,7),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,4,5),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(5,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,4,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,4,5),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((7,11,15),(1,0,0),(2,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,2),(3,5,6),(4,6,7),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,6),(4,6,7),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(4,6,7),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(3,5,6),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(5,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,11,15),(1,2,2),(3,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(7,11,15),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,5),(2,3,4),(3,5,6),(4,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((6,9,11),(3,5,6),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(6,9,11),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,7),(6,9,11),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(4,6,7),(6,9,11)); lvl=2; h,r-ind=1,1
  [3,3]((7,11,15),(2,3,4),(3,5,6)); lvl=1; h,r-ind=1,1
```

15.50 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,12,15)); lvl=0; h,r-ind=15,75
  [4,3]((4,6,7),(1,1,1),(1,0,0),(8,12,15)); lvl=1; h,r-ind=1,1
    [4,3]((3,4,5),(11,15,18),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((11,15,18),(4,5,6),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(4,5,6),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(1,0,0),(4,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(11,15,18),(4,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((4,6,7),(11,15,18),(7,10,12),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((7,10,12),(11,15,18),(8,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(11,15,18),(8,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(7,10,12),(8,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(4,6,7),(8,11,13)); lvl=3; h,r-ind=1,1
    [4,3]((6,9,11),(3,4,5),(11,15,18),(7,10,12)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(11,15,18),(10,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,12),(11,15,18),(10,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,11),(7,10,12),(10,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,11),(3,4,5),(10,14,17)); lvl=3; h,r-ind=1,1
    [3,3]((8,12,15),(6,9,11),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,7),(6,9,11),(7,10,12)); lvl=2; h,r-ind=1,1
  [5,3]((7,12,15),(4,7,8),(4,6,7),(5,8,9),(8,12,15)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,6),(4,6,7),(6,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,6),(5,8,10),(8,12,15),(6,9,11)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,10),(8,12,15),(11,17,21)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,11),(8,12,15),(11,17,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(5,8,10),(11,17,21)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,11),(3,5,6),(11,17,21)); lvl=3; h,r-ind=1,1
    [3,3]((7,12,15),(3,5,6),(5,8,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(7,12,15),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(5,8,9),(4,6,7)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((4,7,8),(3,5,6),(5,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((7,12,15),(4,7,8),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((4,6,7),(5,8,9),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,9),(6,9,10),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(6,9,10),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,7),(5,8,9),(6,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(4,6,7),(6,9,10)); lvl=2; h,r-ind=1,1
  [4,3]((4,7,8),(1,2,2),(5,8,9),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,9),(2,3,3),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(1,2,2),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,9),(4,7,8),(6,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,2),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,12,15),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
```

15.51 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,14,15)); lvl=0; h,r-ind=15,225
  [3,3]((2,3,3),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(2,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,14,15),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,14,15),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,14,15),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(7,14,15),(1,1,1)); lvl=1; h,r-ind=1,1
```

15.52 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,10,15)); lvl=0; h,r-ind=15,15
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((9,11,12),(0,1,0),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((2,2,3),(9,11,12),(5,6,7),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,7),(9,11,12),(6,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(9,11,12),(6,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(5,6,7),(6,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,2,3),(6,7,8)); lvl=2; h,r-ind=1,1
  [4,3]((9,10,15),(9,11,15),(2,2,3),(5,6,8)); lvl=1; h,r-ind=1,1
    [4,3]((6,7,10),(13,15,21),(5,6,8),(9,11,15)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((11,13,18),(5,6,8),(13,15,21)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,10),(11,13,18),(13,15,21)); lvl=3; h,r-ind=1,1
      [3,3]((11,13,18),(9,11,15),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,10),(11,13,18),(9,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(6,7,10),(13,15,21)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(6,7,10),(9,10,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(13,15,21),(5,6,8)); lvl=2; h,r-ind=1,1
  [4,3]((4,5,6),(9,11,12),(5,6,7),(0,1,0)); lvl=1; h,r-ind=1,1
    [4,3]((5,6,7),(3,4,4),(15,19,21),(9,11,12)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((8,10,11),(3,4,4),(15,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,7),(8,10,11),(15,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,12),(8,10,11),(3,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,7),(9,11,12),(8,10,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,3),(3,4,4),(7,9,10),(15,19,21)); lvl=2; h,r-ind=1,1
      [3,3]((10,13,14),(3,4,4),(15,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,14),(7,9,10),(15,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(10,13,14),(7,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(10,13,14),(3,4,4)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,6),(5,6,7),(7,9,10),(15,19,21)); lvl=2; h,r-ind=1,1
      [3,3]((12,15,17),(5,6,7),(15,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((12,15,17),(7,9,10),(15,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(12,15,17),(7,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(12,15,17),(5,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(0,1,0),(3,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,6),(2,3,3),(7,9,10)); lvl=2; h,r-ind=1,1
  [4,3]((9,11,15),(5,6,8),(4,5,6),(0,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,6),(2,3,3),(7,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,5),(15,19,24),(2,3,3),(7,9,11)); lvl=2; h,r-ind=1,1
      [3,3]((10,13,16),(15,19,24),(7,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(10,13,16),(7,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,3),(10,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(10,13,16),(15,19,24)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(3,4,5),(2,3,3)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((15,19,24),(5,6,8),(4,5,6),(7,9,11)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,8),(4,5,6),(12,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,11),(4,5,6),(12,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,11),(15,19,24),(12,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((15,19,24),(5,6,8),(12,15,19)); lvl=3; h,r-ind=1,1
    [4,3]((9,11,15),(3,4,5),(15,19,24),(5,6,8)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,4,5),(8,10,13),(15,19,24)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(8,10,13),(15,19,24)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,15),(5,6,8),(8,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,15),(3,4,5),(8,10,13)); lvl=3; h,r-ind=1,1
  [4,3]((2,2,3),(5,6,8),(4,5,6),(5,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,8),(6,7,9),(4,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,7),(6,7,9),(4,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(5,6,8),(6,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,7),(2,2,3),(6,7,9)); lvl=2; h,r-ind=1,1
```

15.53 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,14,15)); lvl=0; h,r-ind=15,75
  [3,3]((3,4,4),(0,1,0),(3,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((9,14,15),(3,4,4),(3,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,1),(3,4,4),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((9,14,15),(1,1,1),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(9,14,15),(1,1,1)); lvl=1; h,r-ind=1,1
```

15.54 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,11,15)); lvl=0; h,r-ind=15,45
  [3,3]((4,4,5),(1,0,0),(3,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((10,11,15),(10,12,15),(4,4,5),(3,3,4)); lvl=1; h,r-ind=1,1
    [5,3]((6,7,9),(9,10,13),(13,14,18),(25,27,35),(7,8,10)); lvl=2; h,r-ind=1,1
      [3,3]((22,24,31),(25,27,35),(9,10,13)); lvl=3; h,r-ind=1,1
      [4,3]((34,38,49),(19,21,27),(22,24,31),(9,10,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((19,21,27),(22,24,31),(28,31,40)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,13),(22,24,31),(28,31,40)); lvl=4; h,r-ind=1,1
        [3,3]((34,38,49),(19,21,27),(28,31,40)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,13),(34,38,49),(28,31,40)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,9),(34,38,49),(9,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((22,24,31),(25,27,35),(13,14,18)); lvl=3; h,r-ind=1,1
      [4,3]((10,11,14),(19,21,27),(22,24,31),(13,14,18)); lvl=3; h,r-ind=1,1
        [3,3]((32,35,45),(22,24,31),(19,21,27)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,14),(32,35,45),(19,21,27)); lvl=4; h,r-ind=1,1
        [3,3]((13,14,18),(32,35,45),(22,24,31)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,14),(13,14,18),(32,35,45)); lvl=4; h,r-ind=1,1
      [5,3]((6,7,9),(34,38,49),(7,8,10),(10,11,14),(19,21,27)); lvl=3; h,r-ind=1,1
        [4,3]((16,18,23),(41,46,59),(35,39,50),(10,11,14)); lvl=4; h,r-ind=1,1
          [3,3]((51,57,73),(41,46,59),(35,39,50)); lvl=5; h,r-ind=1,1
          [3,3]((10,11,14),(51,57,73),(35,39,50)); lvl=5; h,r-ind=1,1
          [3,3]((16,18,23),(10,11,14),(51,57,73)); lvl=5; h,r-ind=1,1
          [3,3]((16,18,23),(51,57,73),(41,46,59)); lvl=5; h,r-ind=1,1
        [3,3]((19,21,27),(35,39,50),(10,11,14)); lvl=4; h,r-ind=1,1
        [4,3]((25,28,36),(41,46,59),(19,21,27),(35,39,50)); lvl=4; h,r-ind=1,1
          [3,3]((41,46,59),(35,39,50),(60,67,86)); lvl=5; h,r-ind=1,1
          [3,3]((19,21,27),(35,39,50),(60,67,86)); lvl=5; h,r-ind=1,1
          [3,3]((25,28,36),(19,21,27),(60,67,86)); lvl=5; h,r-ind=1,1
          [3,3]((25,28,36),(41,46,59),(60,67,86)); lvl=5; h,r-ind=1,1
        [3,3]((34,38,49),(25,28,36),(19,21,27)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,9),(25,28,36),(41,46,59)); lvl=4; h,r-ind=1,1
        [3,3]((34,38,49),(6,7,9),(25,28,36)); lvl=4; h,r-ind=1,1
        [3,3]((16,18,23),(7,8,10),(10,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,9),(16,18,23),(7,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,9),(16,18,23),(41,46,59)); lvl=4; h,r-ind=1,1
    [3,3]((6,7,9),(10,12,15),(7,8,10)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,9),(14,16,21),(9,10,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,4,5),(13,14,18),(7,8,10)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((3,3,4),(4,4,5),(13,14,18),(25,27,35)); lvl=2; h,r-ind=1,1
      [3,3]((16,17,22),(4,4,5),(13,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((25,27,35),(16,17,22),(13,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(25,27,35),(16,17,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(16,17,22),(4,4,5)); lvl=3; h,r-ind=1,1
    [5,3]((10,11,15),(14,16,21),(9,10,13),(3,3,4),(25,27,35)); lvl=2; h,r-ind=1,1
      [3,3]((9,10,13),(25,27,35),(12,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(25,27,35),(12,13,17)); lvl=3; h,r-ind=1,1
```

```
    [4,3]((23,25,33),(32,35,46),(3,3,4),(12,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((32,35,46),(12,13,17),(35,38,50)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,4),(12,13,17),(35,38,50)); lvl=4; h,r-ind=1,1
      [3,3]((23,25,33),(32,35,46),(35,38,50)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,4),(23,25,33),(35,38,50)); lvl=4; h,r-ind=1,1
    [4,3]((8,9,12),(10,11,15),(23,25,33),(3,3,4)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((3,3,4),(11,12,16),(10,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,12),(11,12,16),(10,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((23,25,33),(3,3,4),(11,12,16)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,12),(23,25,33),(11,12,16)); lvl=4; h,r-ind=1,1
    [5,3]((8,9,12),(17,19,25),(29,32,42),(23,25,33),(32,35,46)); lvl=3; h,r-ind=1,1
      [3,3]((20,22,29),(29,32,42),(32,35,46)); lvl=4; h,r-ind=1,1
      [3,3]((20,22,29),(23,25,33),(32,35,46)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,12),(20,22,29),(23,25,33)); lvl=4; h,r-ind=1,1
      [3,3]((17,19,25),(20,22,29),(29,32,42)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,12),(17,19,25),(20,22,29)); lvl=4; h,r-ind=1,1
    [4,3]((29,32,42),(32,35,46),(9,10,13),(12,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((41,45,59),(12,13,17),(32,35,46)); lvl=4; h,r-ind=1,1
      [3,3]((29,32,42),(41,45,59),(32,35,46)); lvl=4; h,r-ind=1,1
      [3,3]((9,10,13),(41,45,59),(12,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((29,32,42),(9,10,13),(41,45,59)); lvl=4; h,r-ind=1,1
    [4,3]((17,19,25),(29,32,42),(14,16,21),(9,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((26,29,38),(9,10,13),(29,32,42)); lvl=4; h,r-ind=1,1
      [3,3]((17,19,25),(26,29,38),(29,32,42)); lvl=4; h,r-ind=1,1
      [3,3]((17,19,25),(14,16,21),(26,29,38)); lvl=4; h,r-ind=1,1
      [3,3]((14,16,21),(26,29,38),(9,10,13)); lvl=4; h,r-ind=1,1
    [3,3]((8,9,12),(17,19,25),(14,16,21)); lvl=3; h,r-ind=1,1
[3,3]((10,11,15),(1,0,0),(3,3,4)); lvl=1; h,r-ind=1,1
[3,3]((4,4,5),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
[4,3]((0,1,0),(10,12,15),(4,4,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [5,3]((4,5,6),(5,6,7),(9,10,12),(15,17,20),(7,8,10)); lvl=2; h,r-ind=1,1
    [3,3]((15,17,20),(14,16,19),(9,10,12)); lvl=3; h,r-ind=1,1
    [4,3]((13,15,18),(8,9,11),(14,16,19),(9,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,11),(9,10,12),(22,25,30)); lvl=4; h,r-ind=1,1
      [3,3]((14,16,19),(9,10,12),(22,25,30)); lvl=4; h,r-ind=1,1
      [3,3]((13,15,18),(14,16,19),(22,25,30)); lvl=4; h,r-ind=1,1
      [3,3]((13,15,18),(8,9,11),(22,25,30)); lvl=4; h,r-ind=1,1
    [4,3]((5,6,7),(22,26,31),(13,15,18),(14,16,19)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((22,26,31),(18,21,25),(13,15,18)); lvl=4; h,r-ind=1,1
      [3,3]((14,16,19),(18,21,25),(13,15,18)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,7),(14,16,19),(18,21,25)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,7),(22,26,31),(18,21,25)); lvl=4; h,r-ind=1,1
    [5,3]((4,5,6),(22,26,31),(13,15,18),(8,9,11),(7,8,10)); lvl=3; h,r-ind=1,1
      [4,3]((29,34,41),(13,15,18),(17,20,24),(25,29,35)); lvl=4; h,r-ind=1,1
        [3,3]((42,49,59),(13,15,18),(17,20,24)); lvl=5; h,r-ind=1,1
        [3,3]((29,34,41),(42,49,59),(17,20,24)); lvl=5; h,r-ind=1,1
        [3,3]((25,29,35),(29,34,41),(42,49,59)); lvl=5; h,r-ind=1,1
        [3,3]((25,29,35),(42,49,59),(13,15,18)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,6),(29,34,41),(17,20,24)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,11),(13,15,18),(25,29,35)); lvl=4; h,r-ind=1,1
      [4,3]((12,14,17),(29,34,41),(8,9,11),(25,29,35)); lvl=4; h,r-ind=1,1
        [3,3]((37,43,52),(25,29,35),(29,34,41)); lvl=5; h,r-ind=1,1
        [3,3]((12,14,17),(37,43,52),(29,34,41)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,11),(12,14,17),(37,43,52)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,11),(37,43,52),(25,29,35)); lvl=5; h,r-ind=1,1
      [3,3]((12,14,17),(7,8,10),(8,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,6),(12,14,17),(7,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,6),(12,14,17),(29,34,41)); lvl=4; h,r-ind=1,1
      [3,3]((13,15,18),(22,26,31),(17,20,24)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,6),(22,26,31),(17,20,24)); lvl=4; h,r-ind=1,1
    [3,3]((5,6,7),(15,17,20),(14,16,19)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,7),(4,5,6),(22,26,31)); lvl=3; h,r-ind=1,1
  [3,3]((4,5,6),(10,12,15),(7,8,10)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,6),(6,8,9),(5,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((4,4,5),(9,10,12),(7,8,10)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,1,1),(4,4,5),(9,10,12),(15,17,20)); lvl=2; h,r-ind=1,1
    [3,3]((10,11,13),(4,4,5),(9,10,12)); lvl=3; h,r-ind=1,1
    [3,3]((15,17,20),(10,11,13),(9,10,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(15,17,20),(10,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(10,11,13),(4,4,5)); lvl=3; h,r-ind=1,1
  [5,3]((0,1,0),(6,8,9),(5,6,7),(1,1,1),(15,17,20)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,7),(6,7,8),(15,17,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(6,7,8),(15,17,20)); lvl=3; h,r-ind=1,1
    [4,3]((9,11,12),(14,17,19),(1,1,1),(6,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((14,17,19),(6,7,8),(15,18,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(6,7,8),(15,18,20)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,12),(14,17,19),(15,18,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(9,11,12),(15,18,20)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(2,3,3),(9,11,12),(1,1,1)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((3,4,4),(2,3,3),(9,11,12)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((3,4,4),(1,1,1),(9,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(3,4,4),(2,3,3)); lvl=4; h,r-ind=1,1
      [4,3]((13,16,18),(14,17,19),(5,6,7),(6,7,8)); lvl=3; h,r-ind=1,1
        [3,3]((14,17,19),(6,7,8),(19,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,7),(6,7,8),(19,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((13,16,18),(14,17,19),(19,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,7),(13,16,18),(19,23,26)); lvl=4; h,r-ind=1,1
      [4,3]((6,8,9),(7,9,10),(13,16,18),(5,6,7)); lvl=3; h,r-ind=1,1
        [3,3]((7,9,10),(13,16,18),(12,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,7),(13,16,18),(12,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,9),(5,6,7),(12,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,9),(7,9,10),(12,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,3),(6,8,9),(7,9,10)); lvl=3; h,r-ind=1,1
      [5,3]((2,3,3),(9,11,12),(7,9,10),(13,16,18),(14,17,19)); lvl=3; h,r-ind=1,1
        [3,3]((8,10,11),(13,16,18),(14,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((8,10,11),(9,11,12),(14,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(8,10,11),(9,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((8,10,11),(13,16,18),(7,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(8,10,11),(7,9,10)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

15.55 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,12,15)); lvl=0; h,r-ind=15,15
  [3,3]((11,12,15),(1,0,0),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((10,12,15),(11,12,15),(4,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(11,12,15),(7,8,10)); lvl=2; h,r-ind=1,1
    [3,3]((12,14,17),(1,1,1),(7,8,10)); lvl=2; h,r-ind=1,1
    [4,3]((10,12,15),(4,5,6),(12,14,17),(7,8,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,6),(11,13,16),(12,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,10),(11,13,16),(12,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((10,12,15),(7,8,10),(11,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((10,12,15),(4,5,6),(11,13,16)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,6),(12,14,17),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((6,8,9),(4,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(6,8,9),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
```

15.56 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,14,15)); lvl=0; h,r-ind=15,45
  [3,3]((1,1,1),(2,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((10,14,15),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(10,14,15),(1,1,1)); lvl=1; h,r-ind=1,1
```

15.57 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,11,15)); lvl=0; h,r-ind=15,225
  [3,3]((1,0,0),(1,1,1),(4,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(4,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,4),(1,0,0),(4,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,4),(4,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((11,11,15),(0,1,0),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((11,11,15),(3,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

15.58 Resolved

```
[3,3]((1,0,0),(0,1,0),(12,14,15)); lvl=0; h,r-ind=15,75
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((12,14,15),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,5,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((12,14,15),(4,5,5),(1,1,1)); lvl=1; h,r-ind=1,1
```

15.59 Resolved

```
[3,3]((1,0,0),(0,1,0),(14,14,15)); lvl=0; h,r-ind=15,225
  [3,3]((14,14,15),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(14,14,15),(1,1,1)); lvl=1; h,r-ind=1,1
```

16 H-index = 16

16.0 Classification

```
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  [3,3]((1,0,0),(0,1,0),(13,14,16))
  [3,3]((1,0,0),(0,1,0),(14,13,16))
  [3,3]((1,0,0),(1,2,0),(6,5,8))
  [3,3]((1,0,0),(1,2,0),(6,7,8))
[3,3]((1,0,0),(0,1,0),(5,14,16))
  [3,3]((1,0,0),(0,1,0),(5,14,16))
  [3,3]((1,0,0),(0,1,0),(10,13,16))
  [3,3]((1,0,0),(0,1,0),(13,10,16))
  [3,3]((1,0,0),(0,1,0),(14,5,16))
  [3,3]((1,0,0),(1,2,0),(2,5,8))
  [3,3]((1,0,0),(1,2,0),(2,7,8))
[3,3]((1,0,0),(0,1,0),(5,15,16))
  [3,3]((1,0,0),(0,1,0),(5,15,16))
  [3,3]((1,0,0),(0,1,0),(13,13,16))
  [3,3]((1,0,0),(0,1,0),(15,5,16))
[3,3]((1,0,0),(0,1,0),(6,7,16))
  [3,3]((1,0,0),(0,1,0),(6,7,16))
  [3,3]((1,0,0),(0,1,0),(7,6,16))
  [3,3]((1,0,0),(1,2,0),(7,3,8))
[3,3]((1,0,0),(0,1,0),(6,9,16))
  [3,3]((1,0,0),(0,1,0),(6,9,16))
  [3,3]((1,0,0),(0,1,0),(9,6,16))
  [3,3]((1,0,0),(0,1,0),(9,10,16))
  [3,3]((1,0,0),(0,1,0),(10,9,16))
  [3,3]((1,0,0),(1,2,0),(4,3,8))
  [3,3]((1,0,0),(1,2,0),(4,5,8))
[3,3]((1,0,0),(0,1,0),(6,15,16))
  [3,3]((1,0,0),(0,1,0),(6,15,16))
  [3,3]((1,0,0),(0,1,0),(15,6,16))
  [3,3]((1,0,0),(1,2,0),(3,3,8))
[3,3]((1,0,0),(0,1,0),(7,7,16))
  [3,3]((1,0,0),(0,1,0),(7,7,16))
  [3,3]((1,0,0),(0,1,0),(7,15,16))
  [3,3]((1,0,0),(0,1,0),(15,7,16))
[3,3]((1,0,0),(0,1,0),(7,8,16))
  [3,3]((1,0,0),(0,1,0),(7,8,16))
  [3,3]((1,0,0),(0,1,0),(8,7,16))
  [3,3]((1,0,0),(7,8,0),(0,1,2))
[3,3]((1,0,0),(0,1,0),(7,10,16))
  [3,3]((1,0,0),(0,1,0),(7,10,16))
  [3,3]((1,0,0),(0,1,0),(10,7,16))
  [3,3]((1,0,0),(1,2,0),(1,5,8))
[3,3]((1,0,0),(0,1,0),(7,12,16))
  [3,3]((1,0,0),(0,1,0),(7,12,16))
  [3,3]((1,0,0),(0,1,0),(12,7,16))
  [3,3]((1,0,0),(3,4,0),(1,3,4))
[3,3]((1,0,0),(0,1,0),(7,14,16))
  [3,3]((1,0,0),(0,1,0),(7,14,16))
  [3,3]((1,0,0),(0,1,0),(14,7,16))
  [3,3]((1,0,0),(1,2,0),(3,7,8))
[3,3]((1,0,0),(0,1,0),(8,9,16))
  [3,3]((1,0,0),(0,1,0),(8,9,16))
  [3,3]((1,0,0),(0,1,0),(9,8,16))
  [3,3]((1,0,0),(1,8,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(8,15,16))
  [3,3]((1,0,0),(0,1,0),(8,15,16))
  [3,3]((1,0,0),(0,1,0),(15,8,16))
  [3,3]((1,0,0),(7,8,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(9,9,16))
  [3,3]((1,0,0),(0,1,0),(9,9,16))
  [3,3]((1,0,0),(0,1,0),(9,15,16))
  [3,3]((1,0,0),(0,1,0),(15,9,16))
[3,3]((1,0,0),(0,1,0),(10,15,16))
  [3,3]((1,0,0),(0,1,0),(10,15,16))
  [3,3]((1,0,0),(0,1,0),(15,10,16))
  [3,3]((1,0,0),(1,2,0),(5,5,8))
[3,3]((1,0,0),(0,1,0),(12,15,16))
```

```
  [3,3]((1,0,0),(0,1,0),(12,15,16))
  [3,3]((1,0,0),(0,1,0),(15,12,16))
  [3,3]((1,0,0),(3,4,0),(3,3,4))
[3,3]((1,0,0),(0,1,0),(14,15,16))
  [3,3]((1,0,0),(0,1,0),(14,15,16))
  [3,3]((1,0,0),(0,1,0),(15,14,16))
  [3,3]((1,0,0),(1,2,0),(7,7,8))
[3,3]((1,0,0),(0,1,0),(15,15,16))
  [3,3]((1,0,0),(0,1,0),(15,15,16))
[3,3]((1,0,0),(1,2,0),(1,0,8))
  [3,3]((1,0,0),(1,2,0),(1,0,8))
  [3,3]((1,0,0),(1,2,0),(1,2,8))
  [3,3]((1,0,0),(1,8,0),(1,0,2))
[3,3]((1,0,0),(1,2,0),(1,4,8))
  [3,3]((1,0,0),(1,2,0),(1,4,8))
  [3,3]((1,0,0),(1,2,0),(1,6,8))
  [3,3]((1,0,0),(1,4,0),(1,2,4))
[3,3]((1,0,0),(1,2,0),(3,0,8))
  [3,3]((1,0,0),(1,2,0),(3,0,8))
  [3,3]((1,0,0),(1,2,0),(3,6,8))
  [3,3]((1,0,0),(3,8,0),(1,0,2))
[3,3]((1,0,0),(1,2,0),(3,2,8))
  [3,3]((1,0,0),(1,2,0),(3,2,8))
  [3,3]((1,0,0),(1,2,0),(3,4,8))
  [3,3]((1,0,0),(1,2,0),(7,2,8))
  [3,3]((1,0,0),(1,2,0),(7,4,8))
  [3,3]((1,0,0),(3,4,0),(1,2,4))
  [3,3]((1,0,0),(3,4,0),(3,2,4))
[3,3]((1,0,0),(1,2,0),(5,0,8))
  [3,3]((1,0,0),(1,2,0),(5,0,8))
  [3,3]((1,0,0),(1,2,0),(5,2,8))
  [3,3]((1,0,0),(5,8,0),(1,0,2))
[3,3]((1,0,0),(1,2,0),(5,4,8))
  [3,3]((1,0,0),(1,2,0),(5,4,8))
  [3,3]((1,0,0),(1,2,0),(5,6,8))
  [3,3]((1,0,0),(1,4,0),(3,2,4))
[3,3]((1,0,0),(1,2,0),(7,0,8))
  [3,3]((1,0,0),(1,2,0),(7,0,8))
  [3,3]((1,0,0),(1,2,0),(7,6,8))
  [3,3]((1,0,0),(7,8,0),(1,0,2))
[3,3]((1,0,0),(1,4,0),(1,0,4))
  [3,3]((1,0,0),(1,4,0),(1,0,4))
[3,3]((1,0,0),(1,4,0),(3,0,4))
  [3,3]((1,0,0),(1,4,0),(3,0,4))
  [3,3]((1,0,0),(3,4,0),(1,0,4))
  [3,3]((1,0,0),(3,4,0),(3,0,4))
```

16.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,16)); lvl=0; h,r-ind=16,16
  [3,3]((1,0,0),(0,1,8),(0,1,0)); lvl=1; h,r-ind=8,8; optimized-h
  [3,3]((1,0,0),(0,1,16),(0,1,8)); lvl=1; h,r-ind=8,8; optimized-h
```

16.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,3,16)); lvl=0; h,r-ind=16,16
  [3,3]((1,0,0),(0,1,0),(0,1,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,5),(0,1,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,3,16),(0,1,5)); lvl=1; h,r-ind=1,1
```

16.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,5,16)); lvl=0; h,r-ind=16,16
  [3,3]((1,0,0),(0,1,0),(0,1,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,1,3),(0,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,3),(0,5,16)); lvl=1; h,r-ind=1,1
```

16.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,7,16)); lvl=0; h,r-ind=16,16
  [3,3]((1,0,0),(0,1,2),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,5,11),(0,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,7,16),(0,5,11)); lvl=1; h,r-ind=3,3; optimized-h
```

16.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,9,16)); lvl=0; h,r-ind=16,16
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,5,8),(0,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,4,7),(0,5,8)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,9,16),(0,4,7)); lvl=1; h,r-ind=1,1
```

16.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,15,16)); lvl=0; h,r-ind=16,16
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,1),(0,15,16)); lvl=1; h,r-ind=1,1
```

16.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,16)); lvl=0; h,r-ind=16,256
  [3,3]((1,1,15),(1,0,0),(1,1,8)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,1,8)); lvl=1; h,r-ind=8,64; optimized-h
  [3,3]((0,1,0),(1,1,15),(1,1,8)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,1,16),(0,1,0),(1,1,15)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,16),(1,1,15),(1,0,0)); lvl=1; h,r-ind=1,1
```

16.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,16)); lvl=0; h,r-ind=16,128
  [4,3]((1,2,14),(1,0,0),(1,1,8),(1,2,8)); lvl=1; h,r-ind=2,2
    [3,3]((1,0,0),(1,1,6),(1,1,4)); lvl=2; h,r-ind=2,2; optimized-h
    [4,3]((1,2,8),(1,2,11),(1,1,6),(1,1,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,11),(2,4,19),(1,1,6),(1,1,5)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,21),(1,1,5),(1,1,6)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,11),(1,2,10),(3,4,21),(1,1,6)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,2,10),(3,4,21),(2,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(3,4,21),(2,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,11),(1,1,6),(2,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,11),(1,2,10),(2,3,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,10),(3,4,21),(1,1,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,10),(2,4,19),(1,1,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,8),(1,1,4),(2,4,19),(1,1,5)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,5),(1,1,4),(3,4,18)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,8),(1,2,9),(1,1,4),(3,4,18)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,13),(1,2,9),(3,4,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(2,3,13),(3,4,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,8),(2,3,13),(1,2,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(1,2,8),(2,3,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,9),(1,1,5),(3,4,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,9),(2,4,19),(1,1,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,7),(1,0,0),(1,1,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,14),(1,2,11),(1,1,7),(1,1,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,7),(4,5,32),(1,1,6)); lvl=3; h,r-ind=1,1
      [4,3]((2,4,25),(1,2,11),(4,5,32),(1,1,6)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,2,12),(1,2,11),(5,7,43),(1,1,6)); lvl=4; h,r-ind=1,3
          [3,3]((2,3,18),(1,1,6),(1,2,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,12),(2,3,18),(1,2,11)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,43),(2,3,18),(1,1,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,12),(5,7,43),(2,3,18)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,19),(4,5,32),(5,7,43),(1,1,6)); lvl=4; h,r-ind=1,3
          [3,3]((4,5,32),(3,4,25),(1,1,6)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((5,7,43),(3,4,25),(1,1,6)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,19),(5,7,43),(3,4,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,19),(4,5,32),(3,4,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,19),(1,2,12),(5,7,43)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,4,25),(2,3,19),(1,2,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,14),(2,4,25),(1,1,7),(4,5,32)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((5,7,46),(1,1,7),(2,3,19),(4,5,32)); lvl=4; h,r-ind=1,3
          [3,3]((1,1,7),(4,5,32),(3,4,26)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,19),(4,5,32),(3,4,26)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,46),(2,3,19),(3,4,26)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,46),(1,1,7),(3,4,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,13),(5,7,46),(2,3,19)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,2,13),(2,4,25),(2,3,19)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,13),(1,2,14),(5,7,46),(1,1,7)); lvl=4; h,r-ind=1,3
          [3,3]((1,2,14),(2,3,20),(1,1,7)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,46),(2,3,20),(1,1,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,13),(1,2,14),(2,3,20)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,46),(1,2,13),(2,3,20)); lvl=5; h,r-ind=1,1
    [3,3]((1,1,8),(1,1,7),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,14),(1,1,8),(1,1,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,14),(1,2,8)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((1,2,16),(0,1,0),(1,2,14)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,16),(1,2,14),(1,1,8)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,8)); lvl=1; h,r-ind=8,32; optimized-h
```

16.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,16)); lvl=0; h,r-ind=16,256
  [5,3]((1,3,13),(1,3,8),(1,1,3),(1,2,10),(1,1,5)); lvl=1; h,r-ind=1,2
    [4,3]((1,2,9),(2,4,15),(1,1,5),(1,1,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,17),(1,1,4),(1,1,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,9),(1,2,8),(3,4,17),(1,1,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,13),(1,2,8),(3,4,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(2,3,13),(3,4,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,9),(2,3,13),(1,2,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(1,2,9),(2,3,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(3,4,17),(1,1,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(2,4,15),(1,1,4)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,15),(1,2,6),(1,1,3),(1,1,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,7),(3,4,14),(1,1,3),(1,2,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,14),(2,3,10),(1,1,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,3,10),(1,1,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(1,2,6),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(3,4,14),(2,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,14),(1,1,4),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(3,4,14),(1,1,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(2,4,15),(1,1,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(1,2,6),(1,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,21),(2,4,15),(1,3,8),(1,2,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,8),(2,6,19),(1,2,6),(1,2,7)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,22),(1,2,7),(1,2,6)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,8),(1,3,9),(3,7,22),(1,2,6)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,3,9),(3,7,22),(2,5,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(3,7,22),(2,5,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(1,3,9),(2,5,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(1,3,8),(2,5,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,9),(3,7,22),(1,2,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(2,6,19),(1,2,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,10),(2,6,19),(1,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,10),(2,5,18),(1,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,18),(2,4,15),(1,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,21),(1,3,10),(2,5,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,13),(1,2,9),(2,6,21),(2,4,15)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,13),(2,6,23),(1,2,9),(1,2,8)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,29),(1,2,8),(1,2,9)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,13),(1,3,12),(3,7,29),(1,2,9)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,3,12),(3,7,29),(2,5,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,9),(3,7,29),(2,5,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,13),(1,3,12),(2,5,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,9),(1,3,13),(2,5,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,12),(3,7,29),(1,2,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,12),(2,6,23),(1,2,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,11),(2,6,23),(1,2,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,11),(2,5,18),(1,2,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,18),(2,4,15),(1,2,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,11),(2,6,21),(2,5,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,9),(1,2,10),(1,1,5)); lvl=2; h,r-ind=1,1
```

```
  [3,3]((1,3,13),(1,2,9),(1,2,10)); lvl=2; h,r-ind=1,1
[3,3]((1,3,16),(1,2,10),(1,1,5)); lvl=1; h,r-ind=1,1
[3,3]((1,1,3),(1,0,0),(1,1,5)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((1,3,16),(1,0,0),(1,1,5)); lvl=1; h,r-ind=1,1
[4,3]((0,1,0),(1,3,8),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,5),(1,1,3),(1,3,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,12),(1,2,5),(1,3,8)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,5),(2,5,10),(2,5,12),(1,3,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,8),(2,6,13),(2,5,12),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,30),(2,5,11),(2,5,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,8),(5,13,30),(1,3,7),(2,5,12)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,19),(5,13,30),(1,3,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(3,8,19),(1,3,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,12),(3,8,19),(5,13,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(2,5,12),(3,8,19)); lvl=5; h,r-ind=1,1
      [3,3]((5,13,30),(1,3,7),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(2,6,13),(2,5,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,5),(2,6,13),(2,5,10),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(2,5,10),(5,13,27)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,5),(1,3,6),(2,5,10),(5,13,27)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,6),(5,13,27),(3,8,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,10),(5,13,27),(3,8,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(1,3,6),(3,8,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,10),(1,3,5),(3,8,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,11),(5,13,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(1,3,6),(2,5,11)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,5),(1,3,8)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,2,5),(2,3,7),(2,2,5),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(2,2,5),(3,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(2,2,5),(3,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,7),(3,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(1,2,5),(3,4,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,5),(1,1,3)); lvl=2; h,r-ind=1,1
  [5,3]((2,5,10),(1,2,4),(2,5,12),(1,2,5),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(1,2,5),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,4,9),(2,3,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,9),(6,13,29),(5,11,25),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,29),(7,15,34),(5,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(7,15,34),(5,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,9),(6,13,29),(7,15,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,9),(7,15,34)); lvl=4; h,r-ind=1,1
    [4,3]((5,11,24),(1,2,4),(2,4,9),(6,13,29)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,33),(2,4,9),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,24),(7,15,33),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((6,13,29),(7,15,33),(2,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,24),(6,13,29),(7,15,33)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,10),(5,11,24),(3,7,15),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,15),(4,9,19),(5,11,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(4,9,19),(5,11,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(3,7,15),(4,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,10),(4,9,19)); lvl=4; h,r-ind=1,1
    [6,3]((5,11,24),(3,7,15),(2,5,11),(3,7,16),(6,13,29),(5,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(3,7,15),(4,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,24),(3,7,15),(4,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,24),(6,13,29),(4,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,16),(2,5,11),(4,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,25),(3,7,16),(4,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((6,13,29),(5,11,25),(4,9,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,10),(3,7,15),(2,5,11)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,16),(5,11,25),(1,2,5),(2,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,21),(1,2,5),(5,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,16),(4,9,21),(5,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,16),(2,5,12),(4,9,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(4,9,21),(1,2,5)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,11),(3,7,16),(2,5,12)); lvl=3; h,r-ind=1,1
  [5,3]((1,3,5),(1,3,4),(1,2,3),(2,5,10),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,12),(1,2,3),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,12),(4,10,17),(2,5,9),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(4,10,17),(5,12,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,12),(4,10,17),(5,12,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,12),(5,12,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(5,12,21)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,10),(2,5,9),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,10),(2,5,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,5),(4,10,17),(3,8,13),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,13),(4,10,17),(5,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,9),(4,10,17),(5,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,9),(5,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(3,8,13),(5,13,22)); lvl=4; h,r-ind=1,1
    [5,3]((1,3,4),(3,7,12),(4,10,17),(3,8,13),(1,2,3)); lvl=3; h,r-ind=1,1
```

```
        [3,3]((3,8,13),(1,3,4),(2,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(2,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,17),(3,8,13),(2,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(4,10,17),(2,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(3,7,12),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,4),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(0,1,0),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,3),(3,7,9),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,2),(3,7,9),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(3,7,9),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,1,1),(2,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,3,4),(3,7,9),(1,2,2)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,5,6),(1,3,4),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,5,6),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(2,5,6),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(3,8,9),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,3,3),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,3),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,8,9),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
    [5,3]((1,0,0),(1,2,3),(1,2,4),(2,3,7),(2,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(1,2,4),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,5),(2,3,7),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,5),(1,1,2)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,16),(1,3,13),(1,2,10)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,3,13),(1,3,8)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,3,16),(0,1,0),(1,3,13)); lvl=1; h,r-ind=3,3; optimized-h
```

16.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,4,16)); lvl=0; h,r-ind=16,64
  [4,3]((1,0,0),(1,2,8),(1,4,8),(1,4,12)); lvl=1; h,r-ind=8,4
    [4,3]((1,2,6),(1,3,10),(1,4,10),(1,4,12)); lvl=2; h,r-ind=2,2
      [3,3]((1,4,11),(1,4,12),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,10),(1,4,12),(1,3,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,8),(1,4,10),(1,4,11),(1,3,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,10),(1,4,11),(2,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(1,4,11),(2,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(1,4,10),(2,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(1,3,8),(2,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(1,3,8),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,10),(1,2,6),(1,3,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(1,2,6),(1,4,8),(1,4,10)); lvl=2; h,r-ind=4,2
      [4,3]((1,3,7),(1,4,9),(1,4,10),(1,3,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,9),(1,4,10),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(1,4,10),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(1,4,9),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(1,3,7),(2,7,17)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,6),(1,2,5),(1,3,7),(1,3,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,5),(1,3,7),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(1,3,7),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(1,2,5),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(1,2,6),(2,5,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,7),(1,3,6),(1,4,9),(1,4,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,9),(1,4,8),(2,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,4,8),(2,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(1,4,9),(2,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,3,7),(2,7,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,4),(1,2,5),(1,3,7),(1,3,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,5),(1,3,7),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,3,7),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(1,2,5),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,2,4),(2,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,4),(1,2,6)); lvl=2; h,r-ind=4,2; optimized-h
    [3,3]((1,1,4),(1,0,0),(1,2,6)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,2,6),(1,2,8),(1,3,10)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,1,4),(1,2,6),(1,2,8)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,4,8),(1,4,12)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,4,16),(0,1,0),(1,4,12)); lvl=1; h,r-ind=4,4; optimized-h
```

```
  [3,3]((1,4,16),(1,2,8),(1,4,12)); lvl=1; h,r-ind=8,4; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,4,8)); lvl=1; h,r-ind=8,16; optimized-h
```

16.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,5,16)); lvl=0; h,r-ind=16,256
  [5,3]((1,5,8),(1,5,11),(1,1,2),(1,3,9),(1,1,3)); lvl=1; h,r-ind=2,2
    [3,3]((1,3,7),(1,4,10),(1,3,9)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,3,7),(1,2,6),(1,3,9)); lvl=2; h,r-ind=2,2; optimized-h
    [5,3]((2,3,7),(2,6,13),(1,3,7),(1,1,3),(1,2,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,7),(1,2,5),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,2,5),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(1,1,3),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,13),(1,3,7),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,13),(4,9,20),(1,2,5)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,3,7),(4,9,20),(1,2,5)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,2),(2,3,7),(1,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,6),(1,1,2),(2,3,7),(2,6,13)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,4),(4,9,20),(1,1,2),(2,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,4),(4,9,20),(2,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(4,7,15),(2,4,9)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,2),(4,7,15),(2,3,7),(2,4,9)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,7,15),(3,5,11),(2,4,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,7),(3,5,11),(2,4,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(4,7,15),(3,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,7),(1,1,2),(3,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(1,2,4),(4,7,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,6),(1,2,4),(2,6,13),(4,9,20)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,4),(2,5,11),(4,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,21),(1,2,4),(2,5,11)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,6),(4,10,21),(2,6,13),(2,5,11)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,10,21),(3,8,17),(2,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,13),(3,8,17),(2,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,6),(2,6,13),(3,8,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,6),(4,10,21),(3,8,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(4,10,21),(1,2,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,5),(1,1,2)); lvl=2; h,r-ind=2,2; optimized-h
    [5,3]((1,5,11),(2,10,19),(2,6,13),(1,3,7),(1,4,10)); lvl=2; h,r-ind=1,1
      [3,3]((2,10,19),(1,5,10),(1,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,26),(1,5,10),(1,4,8)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((2,7,15),(3,11,24),(3,12,26),(1,4,8)); lvl=3; h,r-ind=1,1
        [4,3]((7,26,56),(2,8,17),(3,11,24),(3,12,26)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,8,17),(3,12,26),(5,19,41)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,24),(3,12,26),(5,19,41)); lvl=5; h,r-ind=1,1
          [3,3]((7,26,56),(2,8,17),(5,19,41)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,24),(7,26,56),(5,19,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,15),(7,26,56),(3,11,24)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,15),(7,26,56),(1,4,8),(2,8,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,4,8),(4,15,32),(2,8,17)); lvl=5; h,r-ind=1,1
          [3,3]((7,26,56),(4,15,32),(2,8,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,15),(7,26,56),(4,15,32)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,15),(1,4,8),(4,15,32)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,15),(2,6,13),(1,4,8)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,15),(3,11,24),(2,6,13),(1,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((3,10,22),(1,3,7),(2,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,15),(3,10,22),(2,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,15),(3,11,24),(3,10,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,24),(3,10,22),(1,3,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,9),(3,11,24),(3,12,26),(1,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((3,12,26),(3,11,24),(4,15,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(3,11,24),(4,15,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(3,12,26),(4,15,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(1,4,9),(4,15,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(1,4,10),(1,3,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,11),(1,4,9),(3,12,26),(1,5,10)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,9),(3,12,26),(2,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(3,12,26),(2,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,11),(1,5,10),(2,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,11),(1,4,9),(2,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(1,4,9),(1,4,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,8),(2,10,19),(1,3,6),(2,6,13)); lvl=2; h,r-ind=2,1
      [4,3]((2,8,15),(1,4,8),(1,3,6),(2,6,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,14),(1,3,6),(2,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(2,7,14),(2,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,15),(1,4,8),(2,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,15),(2,7,14),(1,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,8,15),(1,4,8)); lvl=3; h,r-ind=1,1
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      [3,3]((1,5,9),(1,4,8),(2,10,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,15),(1,4,7),(1,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,8),(1,5,9),(2,8,15),(1,4,7)); lvl=3; h,r-ind=1,1
        [3,3]((2,9,16),(1,5,9),(2,8,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,16),(1,4,7),(2,8,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(2,9,16),(1,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(2,9,16),(1,5,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(1,3,6),(1,3,5)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,5,16),(1,3,9),(1,1,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,5,16),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,16),(1,5,11),(1,3,9)); lvl=1; h,r-ind=10,10; optimized-h
  [4,3]((1,0,0),(0,1,0),(1,5,8),(1,1,2)); lvl=1; h,r-ind=2,2
    [4,3]((1,3,4),(1,4,5),(1,5,8),(1,3,5)); lvl=2; h,r-ind=1,2
      [3,3]((1,5,8),(1,4,6),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,6),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,5),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,5,8),(1,4,6)); lvl=3; h,r-ind=1,1
    [5,3]((2,2,3),(2,5,6),(1,3,4),(1,1,2),(1,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,5),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,6),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,9),(1,2,3),(2,5,6)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,2,3),(4,7,9),(1,2,3)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,3),(1,1,2),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(1,3,3),(2,2,3),(2,5,6)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((1,3,3),(2,3,3),(2,5,6),(4,7,9)); lvl=3; h,r-ind=3,1
        [3,3]((3,5,6),(4,7,9),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,5,6),(2,4,5)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,3),(2,5,6),(1,2,2),(2,4,5)); lvl=4; h,r-ind=1,1
          [3,3]((1,2,2),(2,4,5),(3,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,6),(2,4,5),(3,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(2,5,6),(3,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(1,2,2),(3,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,3),(1,2,2),(3,5,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,3),(2,3,3),(4,7,9)); lvl=3; h,r-ind=3,1
        [3,3]((3,5,6),(2,3,4),(4,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,5,6),(2,3,4)); lvl=4; h,r-ind=1,1
        [4,3]((1,0,0),(1,1,1),(2,2,3),(2,3,4)); lvl=4; h,r-ind=1,1
          [3,3]((1,1,1),(2,3,4),(3,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(2,3,4),(3,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(1,1,1),(3,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(2,3,3),(3,5,6)); lvl=4; h,r-ind=1,1
    [5,3]((1,3,3),(2,5,6),(1,3,4),(1,4,4),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,12),(1,4,5),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((3,10,12),(2,6,7),(4,13,15),(1,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((2,6,7),(4,13,15),(5,16,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,12),(4,13,15),(5,16,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,10,12),(5,16,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,6,7),(5,16,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(2,6,7),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,6),(2,6,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(3,10,11),(2,6,7),(4,13,15)); lvl=3; h,r-ind=1,1
        [3,3]((3,10,11),(4,13,15),(5,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(4,13,15),(5,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(3,10,11),(5,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(1,3,3),(5,16,18)); lvl=4; h,r-ind=1,1
      [5,3]((3,10,11),(3,10,12),(4,13,15),(1,4,4),(1,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,8),(1,4,5),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,11),(2,7,8),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,11),(2,7,8),(4,13,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(3,10,12),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(4,13,15),(3,10,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(3,10,11),(1,4,4)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,4,4),(1,4,5),(1,5,8)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,4),(3,13,15),(1,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,7),(1,5,6),(3,13,15),(1,4,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,6),(3,13,15),(2,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(3,13,15),(2,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(1,4,5),(2,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(1,5,6),(2,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(1,5,7),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,8),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,7),(1,5,6)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,5,6),(1,4,4),(3,13,15)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,9,10),(1,5,6),(3,13,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(2,9,10),(3,13,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,15),(2,9,10),(1,5,6)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((1,5,5),(3,14,15),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,5,5),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(1,5,5),(3,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,4,4),(1,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(3,14,15),(2,9,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,3),(0,1,0),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,3,3),(0,1,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,5,8),(1,5,11)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,5,16),(0,1,0),(1,5,11)); lvl=1; h,r-ind=5,5; optimized-h
```

16.12 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,6,16)); lvl=0; h,r-ind=16,128
  [5,3]((1,5,10),(1,5,12),(1,4,8),(1,4,10),(1,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,9),(1,3,7),(1,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,9),(1,5,12),(1,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,9),(1,5,12),(1,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,10),(1,4,9),(1,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,9),(1,3,7),(1,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,10),(1,4,9),(1,4,8)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(1,3,8),(1,4,10),(1,3,7)); lvl=1; h,r-ind=1,2
    [3,3]((1,2,5),(1,3,8),(1,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(1,3,7),(1,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,5),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,5),(1,3,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,16),(1,3,8),(1,4,10)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,0,0),(1,4,6),(1,4,8),(1,3,7)); lvl=1; h,r-ind=2,4
    [4,3]((1,3,6),(1,2,4),(2,5,9),(2,6,11)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(3,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,11),(2,5,9),(3,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,6,11),(3,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,2,4),(3,8,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(1,4,7),(2,5,9),(2,6,11)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,23),(1,4,7),(2,6,11)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,9),(1,3,5),(4,13,23),(2,6,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,9,16),(4,13,23),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(3,9,16),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,11),(2,5,9),(3,9,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,11),(3,9,16),(4,13,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(4,13,23),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,3,5),(1,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,7),(1,4,8),(1,3,6),(2,6,11)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,8),(2,7,13),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,11),(2,7,13),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(2,6,11),(2,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(1,4,8),(2,7,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(1,4,8),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(1,3,6),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(2,4,7),(1,2,4),(2,5,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,7),(2,5,9),(3,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(3,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(3,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,4,7),(3,6,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(1,4,6),(2,4,7),(2,5,9)); lvl=2; h,r-ind=1,1
      [4,3]((2,4,7),(4,9,15),(1,3,5),(2,5,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,12),(4,9,15),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(3,7,12),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,7),(2,5,9),(3,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,7),(3,7,12),(4,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,7),(4,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,9,15),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,4,6),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,2),(1,2,3),(2,4,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,3),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,1,2),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,3,5),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,3,5),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,3,7),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,16),(1,5,12),(1,4,10)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,6,8),(1,4,6),(1,6,10),(1,5,10),(1,4,8)); lvl=1; h,r-ind=2,2
    [3,3]((1,5,10),(1,4,8),(1,5,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,10,17),(1,4,7),(1,4,8),(1,5,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,16),(1,4,8),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,17),(2,9,16),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,16),(1,5,9),(1,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,17),(2,9,16),(1,5,9)); lvl=3; h,r-ind=1,1
```

```
  [4,3]((1,4,6),(1,5,7),(2,10,17),(1,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,7),(1,5,8),(3,13,21)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(1,5,7),(1,5,8),(3,13,21)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,7),(2,9,14),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,21),(2,9,14),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,5,7),(2,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,21),(1,4,6),(2,9,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(1,4,6),(3,13,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(2,10,17),(1,5,8)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,8),(1,6,9),(1,5,7),(2,10,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,9),(1,5,8),(2,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,17,25),(1,6,9),(1,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,8),(3,17,25),(1,5,7),(1,5,8)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,7),(2,11,16),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,25),(2,11,16),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(3,17,25),(2,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(1,5,7),(2,11,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,8),(3,17,25),(1,6,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,10),(1,5,10),(1,5,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,9),(2,10,17),(1,6,10),(1,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,18),(2,10,17),(1,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,10),(2,11,18),(1,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,9),(1,6,10),(2,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,9),(2,11,18),(2,10,17)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,6,8),(1,6,10)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((1,6,16),(0,1,0),(1,6,10)); lvl=1; h,r-ind=6,6; optimized-h
[4,3]((1,0,0),(0,1,0),(1,6,8),(1,4,6)); lvl=1; h,r-ind=2,2
  [4,3]((1,4,4),(0,1,0),(1,5,7),(1,6,8)); lvl=2; h,r-ind=1,2
    [5,3]((2,11,14),(2,11,13),(1,6,6),(1,6,8),(0,1,0)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(2,11,13),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,14),(2,11,13),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,14),(1,6,8),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(0,1,0),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(0,1,0),(1,6,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,4),(1,6,6),(2,10,11),(0,1,0)); lvl=3; h,r-ind=1,2
      [3,3]((1,5,5),(0,1,0),(1,6,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,11),(1,5,5),(1,6,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(2,10,11),(1,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(1,5,5),(0,1,0)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,7),(1,5,6),(2,11,14),(2,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(2,11,13),(3,16,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,11,13),(3,16,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,14),(3,16,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,7),(3,16,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,6),(2,11,13),(1,6,6),(2,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,12),(2,11,13),(1,6,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,11),(2,11,12),(1,6,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,11,12),(2,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,10,11),(2,11,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,4),(1,5,6),(2,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(1,4,4),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(2,11,14),(1,6,8)); lvl=3; h,r-ind=1,1
  [5,3]((1,2,3),(1,2,2),(1,4,4),(1,4,6),(1,5,7)); lvl=2; h,r-ind=1,2
    [4,3]((1,2,2),(1,3,3),(2,7,9),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,9),(2,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(2,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,4),(2,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(2,6,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,6),(2,8,11),(2,7,9),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(2,7,9),(3,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(3,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,8,11),(3,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,6),(3,11,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(1,4,6),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(1,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,4),(1,4,5),(1,3,3),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,9),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,9),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(1,4,5),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,4,4),(2,7,8)); lvl=4; h,r-ind=1,1
    [4,3]((2,8,11),(1,5,7),(1,4,5),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,16),(1,4,5),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,11),(3,12,16),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,9),(2,8,11),(3,12,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,9),(3,12,16),(1,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(2,8,11),(1,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(1,4,4),(1,4,5)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,2,2)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,2,2),(1,4,4),(0,1,0)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,2),(0,1,0)); lvl=2; h,r-ind=2,2; optimized-h
```

```
  [4,3]((1,6,16),(1,6,10),(1,5,10),(1,5,12)); lvl=1; h,r-ind=2,1
    [4,3]((1,6,13),(1,5,11),(1,6,10),(1,5,10)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,11),(4,21,43),(1,5,10)); lvl=3; h,r-ind=1,1
      [4,3]((2,12,23),(1,6,10),(4,21,43),(1,5,10)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,6,11),(5,27,53),(1,5,10),(1,6,10)); lvl=4; h,r-ind=1,3
          [3,3]((2,11,21),(5,27,53),(1,5,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,10),(2,11,21),(1,5,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(1,6,10),(2,11,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(2,11,21),(5,27,53)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(2,11,22),(5,27,53)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,12,23),(1,6,11),(2,11,22)); lvl=4; h,r-ind=1,1
        [4,3]((4,21,43),(2,11,22),(5,27,53),(1,5,10)); lvl=4; h,r-ind=1,3
          [3,3]((2,11,22),(5,27,53),(3,16,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(5,27,53),(3,16,32)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,43),(1,5,10),(3,16,32)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,43),(2,11,22),(3,16,32)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,13),(2,12,23),(1,5,11),(4,21,43)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,5,11),(5,27,56),(2,11,22),(4,21,43)); lvl=4; h,r-ind=1,3
          [3,3]((5,27,56),(3,16,33),(2,11,22)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,43),(3,16,33),(2,11,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(5,27,56),(3,16,33)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,43),(1,5,11),(3,16,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,12),(5,27,56),(2,11,22)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,5,11),(1,6,13),(1,6,12),(5,27,56)); lvl=4; h,r-ind=1,3
          [3,3]((1,6,12),(1,6,13),(2,11,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(1,6,13),(2,11,23)); lvl=5; h,r-ind=1,1
          [3,3]((5,27,56),(1,6,12),(2,11,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(5,27,56),(2,11,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,12),(2,11,22),(2,12,23)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,16),(1,6,13),(1,5,11),(1,5,12)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,13),(2,12,29),(1,5,11),(4,21,49)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,5,11),(4,21,49),(5,27,62),(2,11,26)); lvl=4; h,r-ind=1,3
          [3,3]((3,16,37),(4,21,49),(2,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((5,27,62),(3,16,37),(2,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(5,27,62),(3,16,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(3,16,37),(4,21,49)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,14),(5,27,62),(2,11,26)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,6,14),(2,12,29),(2,11,26)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,11),(1,6,13),(1,6,14),(5,27,62)); lvl=4; h,r-ind=1,3
          [3,3]((2,11,25),(1,6,13),(1,6,14)); lvl=5; h,r-ind=1,1
          [3,3]((5,27,62),(2,11,25),(1,6,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(5,27,62),(2,11,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(2,11,25),(1,6,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,12),(1,5,11),(4,21,49)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,16),(1,5,12),(2,12,29),(4,21,49)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,5,12),(5,27,65),(2,11,26),(4,21,49)); lvl=4; h,r-ind=1,3
          [3,3]((3,16,38),(2,11,26),(5,27,65)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(3,16,38),(5,27,65)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,49),(3,16,38),(2,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(4,21,49),(3,16,38)); lvl=5; h,r-ind=1,1
        [4,3]((1,6,15),(1,6,16),(1,5,12),(5,27,65)); lvl=4; h,r-ind=1,3
          [3,3]((1,5,12),(1,6,16),(2,11,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,15),(1,6,16),(2,11,27)); lvl=5; h,r-ind=1,1
          [3,3]((5,27,65),(1,5,12),(2,11,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,15),(5,27,65),(2,11,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,15),(5,27,65),(2,11,26)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,12,29),(1,6,15),(2,11,26)); lvl=4; h,r-ind=1,1
```

16.13 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,7,16)); lvl=0; h,r-ind=16,256
  [5,3]((1,7,9),(1,7,8),(2,9,18),(1,2,4),(1,2,3)); lvl=1; h,r-ind=5,1
    [4,3]((1,3,5),(2,9,13),(4,18,29),(1,4,7)); lvl=2; h,r-ind=3,3; alert-r-inc
      [4,3]((1,4,7),(5,21,34),(2,9,14),(4,18,29)); lvl=3; h,r-ind=1,3
        [3,3]((5,21,34),(3,13,21),(2,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,29),(3,13,21),(2,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(5,21,34),(3,13,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,29),(1,4,7),(3,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(5,21,34),(2,9,14)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((1,4,6),(2,9,13),(2,9,14)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,7),(1,3,5),(1,4,6),(5,21,34)); lvl=3; h,r-ind=1,3
        [3,3]((1,3,5),(1,4,6),(2,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,21,34),(1,4,6),(2,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(5,21,34),(2,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(1,3,5),(2,8,13)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,14),(1,3,5),(1,2,4),(1,4,7)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,6),(1,2,4),(1,3,5),(3,10,18)); lvl=3; h,r-ind=1,2; alert-r-inc
```

```
      [3,3]((2,6,11),(1,2,4),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,18),(2,6,11),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(3,10,18),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,6,11),(1,2,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(1,3,5),(3,10,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(1,3,6),(3,10,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,14),(1,4,7),(1,3,6)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,5),(1,2,3),(2,9,11),(2,9,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(1,4,5),(2,7,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,5),(1,4,6),(1,2,3),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,3,4),(2,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,15),(1,4,6),(1,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,5),(3,10,15),(1,2,3),(1,3,4)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,4),(3,10,15),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(3,10,15),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(1,2,3),(2,6,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(3,10,15),(1,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,12),(1,4,6),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(2,9,11),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(2,9,13),(1,4,6)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,5),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
  [5,3]((1,5,8),(1,5,9),(1,4,8),(4,18,29),(1,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,15),(3,13,23),(4,18,31),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,23),(4,18,31),(5,22,38)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,15),(4,18,31),(5,22,38)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,9,15),(5,22,38)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,13,23),(5,22,38)); lvl=4; h,r-ind=1,1
    [3,3]((4,18,29),(2,9,15),(1,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(4,18,29),(2,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,23),(1,4,8),(1,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,8),(2,9,15),(4,18,31),(3,14,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,15),(4,18,31),(5,23,39)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,24),(4,18,31),(5,23,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(3,14,24),(5,23,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,9,15),(5,23,39)); lvl=4; h,r-ind=1,1
    [5,3]((1,5,9),(3,13,23),(4,18,31),(1,4,8),(3,14,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,16),(4,18,31),(3,14,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(1,5,9),(3,14,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(2,9,16),(1,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,23),(2,9,16),(4,18,31)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,23),(1,4,8),(2,9,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(1,5,9),(3,14,24)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,8),(2,7,14),(1,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,9),(2,9,18),(1,4,8)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,8),(2,9,13),(4,18,29),(1,6,8)); lvl=2; h,r-ind=3,3; alert-r-inc
    [3,3]((1,5,7),(2,9,14),(2,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(5,24,37),(2,9,14)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [4,3]((1,5,8),(4,18,29),(5,24,37),(2,9,14)); lvl=3; h,r-ind=1,3
      [3,3]((3,14,22),(2,9,14),(4,18,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(3,14,22),(4,18,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,22),(5,24,37),(2,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(3,14,22),(5,24,37)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,8),(1,6,8),(1,5,7),(5,24,37)); lvl=3; h,r-ind=1,3
      [3,3]((2,10,15),(1,6,8),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((5,24,37),(2,10,15),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(5,24,37),(2,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,10,15),(1,6,8)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,8),(2,9,11),(2,9,13),(1,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,11),(2,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(1,5,7),(2,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,13),(2,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(2,11,13),(1,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,8),(2,11,13),(1,5,7),(1,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,13),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,22),(1,5,7),(1,6,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,8),(1,6,8),(3,17,22),(1,6,7)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,12,15),(3,17,22),(1,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(2,12,15),(1,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,15),(1,6,7),(3,17,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(2,12,15),(1,6,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(3,17,22),(1,5,7)); lvl=4; h,r-ind=1,1
  [3,3]((1,7,9),(1,7,8),(1,6,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,11,18),(1,5,8),(1,5,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,7,9),(2,11,18),(1,5,8),(1,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,9),(1,5,8),(3,17,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(1,5,8),(3,17,25)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,9),(1,6,8),(1,6,9),(3,17,25)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,12,17),(3,17,25),(1,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(2,12,17),(1,6,8)); lvl=4; h,r-ind=1,1
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      [3,3]((1,6,9),(1,7,9),(2,12,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(2,12,17),(3,17,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(2,11,18),(1,5,8)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((0,1,0),(1,7,8),(1,0,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,1),(1,4,4),(2,9,11),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,4),(1,4,5),(2,9,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,4),(2,5,5),(2,7,9),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(2,7,9),(2,6,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,3),(5,17,20),(3,10,12),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((5,17,20),(4,13,15),(3,10,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,7),(4,13,15),(3,10,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(4,13,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(5,17,20),(4,13,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,5),(2,6,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,5),(5,17,20),(3,10,12),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,17,20),(4,14,17),(3,10,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,9),(4,14,17),(3,10,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,9),(4,14,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(5,17,20),(4,14,17)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,3),(1,4,4),(1,4,5),(5,17,20)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((1,4,4),(2,7,8),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((5,17,20),(2,7,8),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(5,17,20),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,4,4),(2,7,8)); lvl=5; h,r-ind=1,1
    [4,3]((1,1,1),(1,2,3),(2,5,5),(2,7,9)); lvl=3; h,r-ind=3,1; alert-h-inc
      [3,3]((2,6,7),(2,7,9),(1,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,6,7),(1,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,1),(1,2,2),(1,2,3),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,4),(2,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(2,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(2,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(1,1,1),(2,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,5),(1,2,2),(2,6,7)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,4,4)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,4,4),(1,7,8),(2,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(3,14,15),(1,4,4),(2,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(1,4,4),(3,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,9,10),(3,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,9,11),(2,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,11),(2,9,10),(1,4,4)); lvl=4; h,r-ind=1,1
    [5,3]((1,5,5),(1,5,6),(2,11,13),(1,6,6),(3,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,17),(1,6,6),(1,5,5)); lvl=4; h,r-ind=1,1
      [4,3]((2,10,11),(3,16,17),(4,21,23),(1,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,23),(5,26,28),(3,16,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,5),(5,26,28),(3,16,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,11),(4,21,23),(5,26,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,5),(2,10,11),(5,26,28)); lvl=5; h,r-ind=1,1
      [3,3]((3,14,15),(2,10,11),(1,5,5)); lvl=4; h,r-ind=1,1
      [4,3]((3,16,18),(3,16,17),(4,21,23),(1,6,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,23),(3,16,17),(9,48,52)); lvl=5; h,r-ind=1,1
        [4,3]((2,11,12),(1,6,6),(3,16,17),(9,48,52)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,27,29),(1,6,6),(3,16,17)); lvl=6; h,r-ind=1,1
          [3,3]((9,48,52),(5,27,29),(3,16,17)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,12),(9,48,52),(5,27,29)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,12),(5,27,29),(1,6,6)); lvl=6; h,r-ind=1,1
        [4,3]((3,16,18),(2,11,12),(4,21,23),(9,48,52)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,12),(6,32,35),(9,48,52)); lvl=6; h,r-ind=1,1
          [3,3]((4,21,23),(6,32,35),(9,48,52)); lvl=6; h,r-ind=1,1
          [3,3]((3,16,18),(4,21,23),(6,32,35)); lvl=6; h,r-ind=1,1
          [3,3]((3,16,18),(2,11,12),(6,32,35)); lvl=6; h,r-ind=1,1
      [3,3]((2,11,13),(3,16,18),(1,6,6)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,5,6),(2,11,13),(3,16,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,6),(2,10,11),(3,16,18),(4,21,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(4,21,23),(5,26,29)); lvl=5; h,r-ind=1,1
        [3,3]((3,16,18),(4,21,23),(5,26,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(3,16,18),(5,26,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(2,10,11),(5,26,29)); lvl=5; h,r-ind=1,1
      [3,3]((3,14,15),(1,5,6),(2,10,11)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,7,8),(2,11,13),(1,6,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,6),(1,6,7),(2,11,13),(2,13,13)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,12,13),(1,6,7),(2,11,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(2,12,13),(2,11,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,13),(2,12,13),(1,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(2,13,13),(2,12,13)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(2,13,13)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,7),(2,13,13)); lvl=4; h,r-ind=1,1
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      [3,3]((0,1,0),(1,7,8),(1,6,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,5),(3,14,15),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,4,4)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,7,9),(1,7,8)); lvl=1; h,r-ind=1,1
[3,3]((1,7,16),(0,1,0),(1,7,9)); lvl=1; h,r-ind=7,7; optimized-h
[5,3]((2,9,18),(1,4,9),(2,11,24),(2,5,11),(1,2,4)); lvl=1; h,r-ind=1,1
  [4,3]((1,5,11),(2,8,17),(1,4,8),(2,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,17),(2,7,14),(3,12,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(2,7,14),(3,12,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,11),(1,4,8),(3,12,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,11),(2,8,17),(3,12,25)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,4),(2,6,13),(2,8,17),(2,7,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(1,3,6),(2,6,13),(2,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,15),(3,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(2,7,15),(3,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,6),(3,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(1,2,4),(3,9,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(2,8,17),(2,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,14),(1,3,6),(2,8,17)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,11),(1,2,4),(2,6,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,9),(2,5,11),(2,6,13)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,9),(2,6,13),(1,5,11),(2,8,17)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,11),(4,16,35),(2,8,17),(2,7,15)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,12,26),(2,7,15),(4,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(3,12,26),(4,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,17),(3,12,26),(2,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(2,8,17),(3,12,26)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,9),(4,16,35),(2,6,13),(2,7,15)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,15),(4,16,35),(3,11,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(4,16,35),(3,11,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(2,7,15),(3,11,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(2,6,13),(3,11,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,9),(1,5,11),(4,16,35)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,11),(2,10,21),(1,4,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,10,21),(2,9,18),(1,4,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,11),(2,10,21),(2,11,24)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(2,5,11),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((1,0,0),(1,4,9),(2,5,11)); lvl=1; h,r-ind=1,1
[3,3]((1,7,16),(1,0,0),(1,4,9)); lvl=1; h,r-ind=1,1
[3,3]((1,7,16),(1,4,9),(2,11,24)); lvl=1; h,r-ind=3,3; optimized-h
[4,3]((1,7,16),(1,7,9),(2,9,18),(2,11,24)); lvl=1; h,r-ind=1,3
  [4,3]((2,11,23),(1,5,10),(2,9,18),(2,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,10),(3,15,31),(2,9,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,21),(3,15,31),(2,9,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,23),(1,5,10),(3,15,31)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,21),(2,11,23),(3,15,31)); lvl=3; h,r-ind=1,1
  [4,3]((2,11,23),(1,6,13),(2,11,24),(2,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((3,16,34),(2,11,24),(1,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,23),(3,16,34),(1,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,16,34),(2,10,21),(2,11,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,23),(3,16,34),(2,10,21)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,16),(1,6,13),(2,11,24)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,9),(1,5,10),(2,9,18)); lvl=2; h,r-ind=1,1
  [3,3]((2,11,23),(1,5,10),(4,22,43)); lvl=2; h,r-ind=3,3; alert-h-inc; optimized-h
  [4,3]((2,11,23),(1,6,13),(2,12,23),(4,22,43)); lvl=2; h,r-ind=3,1; alert-h-inc
    [3,3]((1,6,12),(2,12,23),(3,17,33)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,22),(1,6,12),(3,17,33)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,22),(4,22,43),(3,17,33)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,23),(2,11,22),(1,6,13),(1,6,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,12),(1,6,13),(3,17,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,23),(1,6,13),(3,17,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,22),(2,11,23),(3,17,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,22),(1,6,12),(3,17,35)); lvl=4; h,r-ind=1,1
  [5,3]((1,7,9),(2,11,18),(2,14,25),(2,12,23),(4,22,43)); lvl=2; h,r-ind=1,1
    [4,3]((2,11,21),(1,6,11),(2,11,20),(2,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,31),(1,6,11),(2,12,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,20),(3,17,31),(2,12,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,21),(3,17,31),(1,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,20),(2,11,21),(3,17,31)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,9),(2,11,18),(2,11,20),(2,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,10),(2,11,20),(2,11,19)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,9),(1,6,10),(2,11,18),(2,11,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,18),(2,11,19),(3,17,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(2,11,19),(3,17,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,9),(2,11,18),(3,17,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(1,6,9),(3,17,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(2,12,21),(2,11,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,9),(1,6,9),(1,7,11),(2,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,11),(2,12,21),(1,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(1,7,10),(1,6,10)); lvl=4; h,r-ind=1,1
```

```
        [4,3]((1,7,9),(1,7,10),(1,6,9),(1,6,10)); lvl=4; h,r-ind=1,1
          [3,3]((1,6,9),(1,6,10),(2,13,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,10),(1,6,10),(2,13,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,9),(1,6,9),(2,13,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,10),(1,7,9),(2,13,19)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,12),(1,7,11),(1,6,11),(2,12,21)); lvl=3; h,r-ind=1,1
        [3,3]((2,13,22),(2,12,21),(1,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,12),(2,13,22),(1,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,11),(2,13,22),(2,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,12),(1,7,11),(2,13,22)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,12),(2,14,25),(2,13,24),(1,6,11)); lvl=3; h,r-ind=1,1
        [3,3]((2,14,25),(2,13,24),(3,20,36)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(2,13,24),(3,20,36)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,12),(2,14,25),(3,20,36)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(1,7,12),(3,20,36)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,21),(4,22,43),(1,6,11),(3,17,33)); lvl=3; h,r-ind=1,1
        [3,3]((3,17,33),(4,22,43),(5,28,54)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,21),(4,22,43),(5,28,54)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(2,11,21),(5,28,54)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(3,17,33),(5,28,54)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,23),(1,6,11),(3,17,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,24),(2,12,23),(1,6,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,16),(1,6,13),(2,14,25),(2,12,23)); lvl=2; h,r-ind=1,1
      [4,3]((1,7,16),(1,7,14),(1,6,13),(1,6,12)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,13),(3,19,40),(1,6,12)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,15),(1,7,14),(3,19,40),(1,6,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,7,14),(2,13,27),(1,6,12)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,40),(2,13,27),(1,6,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,15),(3,19,40),(2,13,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,15),(1,7,14),(2,13,27)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,16),(1,7,15),(1,6,13),(3,19,40)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,13,28),(3,19,40),(1,7,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,16),(2,13,28),(1,7,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,13),(2,13,28),(3,19,40)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,16),(1,6,13),(2,13,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,14),(1,7,13),(1,6,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,13),(2,13,24),(1,6,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,24),(2,12,23),(1,6,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,13),(2,14,25),(2,13,24)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,18),(1,5,9),(1,5,10),(4,22,43)); lvl=2; h,r-ind=1,1
      [3,3]((6,31,58),(1,5,10),(1,5,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,18),(2,11,20),(6,31,58),(1,5,9)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,5,9),(4,21,38),(4,21,39),(6,31,58)); lvl=4; h,r-ind=1,2
          [3,3]((4,21,38),(5,26,48),(4,21,39)); lvl=5; h,r-ind=1,1
          [3,3]((6,31,58),(5,26,48),(4,21,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(4,21,38),(5,26,48)); lvl=5; h,r-ind=1,1
          [3,3]((6,31,58),(1,5,9),(5,26,48)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,20),(4,21,38),(4,21,39)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((2,11,19),(2,11,20),(4,21,38)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,5,9),(2,11,19),(2,11,18),(4,21,38)); lvl=4; h,r-ind=1,2
          [3,3]((3,16,28),(2,11,18),(2,11,19)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,38),(3,16,28),(2,11,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(4,21,38),(3,16,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(3,16,28),(2,11,18)); lvl=5; h,r-ind=1,1
      [4,3]((2,11,21),(2,11,20),(6,31,58),(1,5,10)); lvl=3; h,r-ind=1,1
        [4,3]((3,16,30),(2,11,20),(4,21,39),(8,42,79)); lvl=4; h,r-ind=1,1
          [3,3]((7,37,69),(4,21,39),(2,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,30),(7,37,69),(2,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,30),(8,42,79),(7,37,69)); lvl=5; h,r-ind=1,1
          [3,3]((8,42,79),(7,37,69),(4,21,39)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,10),(6,31,58),(4,21,39),(8,42,79)); lvl=4; h,r-ind=1,1
          [3,3]((4,21,39),(5,26,49),(6,31,58)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(5,26,49),(6,31,58)); lvl=5; h,r-ind=1,1
          [3,3]((8,42,79),(4,21,39),(5,26,49)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(8,42,79),(5,26,49)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(3,16,30),(8,42,79)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(2,11,21),(3,16,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,21),(3,16,30),(2,11,20)); lvl=4; h,r-ind=1,1
      [3,3]((4,22,43),(2,11,21),(1,5,10)); lvl=3; h,r-ind=1,1
```

16.14 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,8,16)); lvl=0; h,r-ind=16,32
  [3,3]((1,8,16),(1,8,8),(1,4,8)); lvl=1; h,r-ind=32,8; alert-h-inc
    [4,3]((1,8,16),(1,8,12),(1,6,12),(1,6,10)); lvl=2; h,r-ind=4,2
      [4,3]((2,14,25),(1,6,11),(1,6,10),(1,7,11)); lvl=3; h,r-ind=1,1
        [3,3]((3,19,33),(1,6,11),(1,6,10)); lvl=4; h,r-ind=1,1
```

```
      [4,3]((1,7,11),(3,19,33),(1,7,12),(1,6,10)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,7,12),(3,19,33),(2,13,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(3,19,33),(2,13,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,11),(1,7,12),(2,13,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(1,7,11),(2,13,22)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,33),(1,7,12),(1,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,25),(1,7,12),(1,6,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,12),(1,8,14),(2,14,25),(1,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,12),(1,8,14),(2,14,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,13),(1,7,12),(1,8,14)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,13),(1,8,12),(1,7,11),(1,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,12),(1,7,11),(2,15,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,12),(1,7,11),(2,15,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,13),(1,8,12),(2,15,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,12),(1,8,13),(2,15,24)); lvl=5; h,r-ind=1,1
    [4,3]((1,8,16),(1,7,14),(1,8,14),(2,14,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,14),(1,7,13),(2,14,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,15),(1,8,14),(1,7,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,16),(1,8,15),(1,7,14),(1,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,14),(1,7,13),(2,15,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,15),(1,7,13),(2,15,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,16),(1,8,15),(2,15,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,16),(1,7,14),(2,15,29)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,14),(2,14,25),(1,6,11),(1,6,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,11),(1,7,13),(2,14,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(1,7,13),(3,19,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(1,6,11),(3,19,36)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,12),(1,7,14),(1,7,13),(3,19,36)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,7,14),(2,13,25),(1,7,13)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,36),(2,13,25),(1,7,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,12),(3,19,36),(2,13,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,12),(1,7,14),(2,13,25)); lvl=5; h,r-ind=1,1
  [3,3]((1,4,8),(1,6,12),(1,6,10)); lvl=2; h,r-ind=4,2; optimized-h
  [4,3]((1,8,8),(1,6,8),(1,8,12),(1,6,10)); lvl=2; h,r-ind=4,2
    [4,3]((1,7,11),(2,14,19),(1,6,10),(1,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,10),(1,6,9),(3,19,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,10),(1,6,9),(3,19,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,10),(2,14,19),(1,6,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,11),(1,7,10),(1,6,10),(3,19,29)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,20),(1,7,10),(3,19,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(2,13,20),(3,19,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,11),(2,13,20),(1,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(1,7,11),(2,13,20)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,8),(2,14,19),(1,6,8),(1,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(1,6,9),(3,19,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(1,6,9),(3,19,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(2,14,19),(1,6,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,8),(1,7,9),(1,6,8),(3,19,26)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,7,9),(3,19,26),(2,13,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(3,19,26),(2,13,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(1,7,9),(2,13,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(1,7,8),(2,13,17)); lvl=5; h,r-ind=1,1
    [4,3]((1,8,12),(1,8,10),(1,7,11),(2,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,10),(2,14,19),(1,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,10),(1,8,11),(1,7,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,11),(1,8,12),(1,7,11),(1,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,12),(1,7,11),(2,15,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(1,7,11),(2,15,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,11),(1,8,12),(2,15,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(1,8,11),(2,15,22)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,8),(1,8,8),(1,8,10),(2,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(1,8,9),(1,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(2,14,19),(1,8,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,8),(1,7,9),(1,8,8),(1,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,8),(1,8,9),(2,15,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(1,8,9),(2,15,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(1,8,8),(2,15,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(1,7,8),(2,15,17)); lvl=5; h,r-ind=1,1
  [3,3]((1,4,8),(1,6,8),(1,6,10)); lvl=2; h,r-ind=4,2; optimized-h
[3,3]((1,0,0),(1,8,8),(1,4,8)); lvl=1; h,r-ind=32,8; alert-h-inc
  [4,3]((1,2,4),(1,4,4),(1,4,6),(1,0,0)); lvl=2; h,r-ind=4,2
    [4,3]((2,5,7),(1,3,5),(1,4,6),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(3,10,15),(1,4,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(1,4,5),(3,10,15),(1,4,6)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,5),(2,7,10),(1,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,15),(2,7,10),(1,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,5),(2,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,15),(1,3,4),(2,7,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,5),(3,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,7),(1,3,4),(1,3,5)); lvl=4; h,r-ind=1,1
```

```
      [4,3]((2,5,7),(1,2,2),(1,4,4),(1,4,5)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,4),(1,4,5),(1,4,4),(1,3,3)); lvl=4; h,r-ind=1,1
          [3,3]((1,4,5),(1,4,4),(2,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(1,4,4),(2,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(1,4,5),(2,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(1,3,4),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(1,2,2),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,7),(1,3,4),(1,2,2)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,2),(2,5,7),(1,0,0),(1,2,2)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,3),(1,2,2),(1,1,1)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,2),(1,0,0),(1,2,3),(1,1,1)); lvl=4; h,r-ind=1,1
          [3,3]((2,2,3),(1,1,1),(1,0,0)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(2,2,3),(1,1,1)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(1,2,3),(2,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,7),(1,2,3),(1,2,2)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,2),(1,2,4),(2,5,7),(1,3,5)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,12),(1,3,5),(1,2,4)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,2),(3,7,12),(1,2,3),(1,2,4)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,2,3),(2,4,7),(3,7,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,4),(2,4,7),(3,7,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(1,2,4),(2,4,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(1,2,3),(2,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,12),(1,2,3),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,7),(1,2,3),(1,3,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(1,2,4),(1,4,6)); lvl=2; h,r-ind=4,2; optimized-h
    [4,3]((1,8,8),(1,6,8),(1,4,4),(1,4,6)); lvl=2; h,r-ind=4,2
      [4,3]((2,11,13),(1,5,7),(1,4,5),(1,4,6)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,6),(3,14,19),(1,4,5),(1,4,6)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,4,5),(2,9,12),(1,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((3,14,19),(2,9,12),(1,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(3,14,19),(2,9,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(1,4,5),(2,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(3,14,19),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(1,5,7),(3,14,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,13),(1,5,6),(1,5,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,8),(2,11,13),(1,6,8),(1,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,7),(2,11,13),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,22),(1,5,7),(1,6,7)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,8),(1,6,8),(3,17,22),(1,6,7)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,12,15),(3,17,22),(1,6,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(2,12,15),(1,6,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,15),(1,6,7),(3,17,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(2,12,15),(1,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(3,17,22),(1,5,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,6),(2,11,13),(1,4,5),(1,4,4)); lvl=3; h,r-ind=1,1
        [4,3]((1,4,4),(1,5,5),(1,5,6),(1,4,5)); lvl=4; h,r-ind=1,1
          [3,3]((1,5,5),(1,5,6),(2,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(1,5,6),(2,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(1,5,5),(2,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(1,4,4),(2,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(1,5,5),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(2,11,13),(1,5,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,8),(1,8,8),(1,6,6),(2,11,13)); lvl=3; h,r-ind=1,1
        [4,3]((1,7,8),(1,6,7),(1,8,8),(1,7,7)); lvl=4; h,r-ind=1,1
          [3,3]((1,6,7),(1,7,7),(2,14,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,8),(1,7,7),(2,14,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(1,8,8),(2,14,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(1,6,7),(2,14,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(1,6,6),(1,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(2,11,13),(1,6,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(1,6,8),(1,4,6)); lvl=2; h,r-ind=4,2; optimized-h
  [3,3]((0,1,0),(1,8,16),(1,8,8)); lvl=1; h,r-ind=8,8; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,8,8)); lvl=1; h,r-ind=8,8; optimized-h
```

16.15 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,16)); lvl=0; h,r-ind=16,128
  [3,3]((1,1,5),(3,4,19),(3,4,20)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,15),(2,3,13),(3,4,19),(3,4,20)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,14),(8,11,53),(3,4,19),(2,3,13)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,19),(5,7,33),(8,11,53)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,14),(5,7,33),(8,11,53)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(2,3,14),(5,7,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(3,4,19),(5,7,33)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,20),(8,11,53),(3,4,19)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,14),(2,3,15),(3,4,20),(8,11,53)); lvl=2; h,r-ind=1,2; alert-r-inc
```

```
    [3,3]((2,3,15),(5,7,34),(3,4,20)); lvl=3; h,r-ind=1,1
    [3,3]((8,11,53),(5,7,34),(3,4,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,14),(8,11,53),(5,7,34)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,14),(2,3,15),(5,7,34)); lvl=3; h,r-ind=1,1
[3,3]((2,3,16),(2,3,15),(3,4,20)); lvl=1; h,r-ind=1,1
[4,3]((1,2,8),(1,2,7),(2,3,15),(2,3,13)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,7),(4,7,29),(2,3,13),(2,3,14)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,3,13),(3,5,21),(2,3,14)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,29),(3,5,21),(2,3,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,7),(4,7,29),(3,5,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,7),(2,3,13),(3,5,21)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,8),(4,7,29),(2,3,15),(2,3,14)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,3,15),(3,5,22),(2,3,14)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,29),(3,5,22),(2,3,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,8),(2,3,15),(3,5,22)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,29),(1,2,8),(3,5,22)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,8),(1,2,7),(4,7,29)); lvl=2; h,r-ind=1,1
[3,3]((2,3,16),(1,2,8),(2,3,15)); lvl=1; h,r-ind=1,1
[3,3]((0,1,0),(1,2,8),(1,2,7)); lvl=1; h,r-ind=1,1
[3,3]((2,3,16),(1,1,5),(3,4,20)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(2,3,16),(1,1,5)); lvl=1; h,r-ind=1,1
[5,3]((2,3,13),(2,3,8),(1,1,3),(1,1,5),(3,4,19)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,13),(4,6,21),(3,4,15),(3,4,18)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,11),(4,6,23),(3,4,15),(6,8,33)); lvl=3; h,r-ind=1,1
      [4,3]((12,17,66),(3,4,16),(5,7,28),(7,10,39)); lvl=4; h,r-ind=1,1
        [3,3]((10,14,55),(3,4,16),(5,7,28)); lvl=5; h,r-ind=1,1
        [3,3]((10,14,55),(7,10,39),(5,7,28)); lvl=5; h,r-ind=1,1
        [3,3]((12,17,66),(10,14,55),(7,10,39)); lvl=5; h,r-ind=1,1
        [3,3]((12,17,66),(10,14,55),(3,4,16)); lvl=5; h,r-ind=1,1
      [4,3]((4,6,23),(2,3,11),(12,17,66),(7,10,39)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(9,13,50),(12,17,66)); lvl=5; h,r-ind=1,1
        [3,3]((7,10,39),(9,13,50),(12,17,66)); lvl=5; h,r-ind=1,1
        [3,3]((7,10,39),(4,6,23),(9,13,50)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,23),(2,3,11),(9,13,50)); lvl=5; h,r-ind=1,1
      [3,3]((4,6,23),(5,7,28),(7,10,39)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,11),(3,4,15),(12,17,66),(3,4,16)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,4,16),(5,7,27),(3,4,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,11),(5,7,27),(3,4,15)); lvl=5; h,r-ind=1,1
        [3,3]((12,17,66),(2,3,11),(5,7,27)); lvl=5; h,r-ind=1,1
        [3,3]((12,17,66),(3,4,16),(5,7,27)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,16),(5,7,28),(6,8,33)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,18),(2,3,13),(4,6,23),(6,8,33)); lvl=3; h,r-ind=3,1; alert-h-inc
      [3,3]((4,6,23),(5,7,28),(2,3,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,17),(5,7,28),(2,3,12)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,18),(3,4,17),(2,3,13),(2,3,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,12),(2,3,13),(5,7,30)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,18),(2,3,13),(5,7,30)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,17),(3,4,18),(5,7,30)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,17),(2,3,12),(5,7,30)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,17),(6,8,33),(5,7,28)); lvl=4; h,r-ind=1,1
    [3,3]((4,6,21),(2,3,11),(3,4,15)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,5),(1,1,4),(3,4,15),(3,4,18)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,4),(6,7,30),(6,8,33),(3,4,15)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,4,16),(4,5,21),(6,8,33)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,16),(4,5,21),(9,11,45)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,1,4),(3,4,15),(3,4,16),(9,11,45)); lvl=4; h,r-ind=1,3
        [3,3]((4,5,20),(3,4,16),(3,4,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(4,5,20),(3,4,15)); lvl=5; h,r-ind=1,1
        [3,3]((9,11,45),(4,5,20),(3,4,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(9,11,45),(4,5,20)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,4),(6,7,30),(4,5,21),(9,11,45)); lvl=4; h,r-ind=1,3
        [3,3]((5,6,25),(6,7,30),(4,5,21)); lvl=5; h,r-ind=1,1
        [3,3]((9,11,45),(5,6,25),(4,5,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(9,11,45),(5,6,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(5,6,25),(6,7,30)); lvl=5; h,r-ind=1,1
    [3,3]((1,1,5),(1,1,4),(6,7,30)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,18),(1,1,5),(6,7,30),(6,8,33)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((4,5,21),(9,11,48),(1,1,5),(6,7,30)); lvl=4; h,r-ind=1,3
        [3,3]((5,6,26),(1,1,5),(9,11,48)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,21),(5,6,26),(9,11,48)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,30),(5,6,26),(1,1,5)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,21),(6,7,30),(5,6,26)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,17),(4,5,21),(9,11,48)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((3,4,17),(4,5,21),(6,8,33)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,18),(3,4,17),(9,11,48),(1,1,5)); lvl=4; h,r-ind=1,3
        [3,3]((3,4,17),(4,5,22),(9,11,48)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,5),(4,5,22),(9,11,48)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,18),(1,1,5),(4,5,22)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,18),(3,4,17),(4,5,22)); lvl=5; h,r-ind=1,1
  [3,3]((3,4,19),(1,1,5),(3,4,18)); lvl=2; h,r-ind=1,1
```

```
  [3,3]((2,3,13),(3,4,19),(3,4,18)); lvl=2; h,r-ind=1,1
  [5,3]((1,1,3),(1,1,4),(2,3,8),(4,6,21),(3,4,15)); lvl=2; h,r-ind=1,1
    [5,3]((5,6,20),(1,1,4),(6,8,29),(4,6,19),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,14),(2,3,10),(6,8,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(3,4,14),(6,8,29)); lvl=4; h,r-ind=1,1
      [4,3]((7,9,31),(9,12,41),(1,1,4),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((9,12,41),(3,4,14),(10,13,45)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(3,4,14),(10,13,45)); lvl=5; h,r-ind=1,1
        [3,3]((7,9,31),(9,12,41),(10,13,45)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(7,9,31),(10,13,45)); lvl=5; h,r-ind=1,1
      [4,3]((5,6,20),(3,4,13),(7,9,31),(1,1,4)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,4,13),(4,5,17),(7,9,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(4,5,17),(7,9,31)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,20),(1,1,4),(4,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,20),(3,4,13),(4,5,17)); lvl=5; h,r-ind=1,1
      [5,3]((3,4,13),(8,11,37),(5,7,23),(7,9,31),(9,12,41)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,27),(5,7,23),(8,11,37)); lvl=5; h,r-ind=1,1
        [3,3]((6,8,27),(9,12,41),(8,11,37)); lvl=5; h,r-ind=1,1
        [3,3]((7,9,31),(6,8,27),(9,12,41)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,13),(7,9,31),(6,8,27)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,13),(6,8,27),(5,7,23)); lvl=5; h,r-ind=1,1
      [4,3]((8,11,37),(9,12,41),(3,4,14),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((11,15,51),(3,4,14),(9,12,41)); lvl=5; h,r-ind=1,1
        [3,3]((8,11,37),(11,15,51),(9,12,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(8,11,37),(11,15,51)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(11,15,51),(3,4,14)); lvl=5; h,r-ind=1,1
      [4,3]((8,11,37),(5,7,23),(2,3,10),(4,6,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(7,10,33),(4,6,19)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,23),(7,10,33),(4,6,19)); lvl=5; h,r-ind=1,1
        [3,3]((8,11,37),(5,7,23),(7,10,33)); lvl=5; h,r-ind=1,1
        [3,3]((8,11,37),(2,3,10),(7,10,33)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,13),(5,7,23),(4,6,19)); lvl=4; h,r-ind=1,1
    [4,3]((6,8,29),(3,4,15),(4,6,21),(2,3,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,15),(5,7,25),(4,6,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(5,7,25),(4,6,21)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,29),(3,4,15),(5,7,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(6,8,29),(5,7,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,4),(6,8,29),(3,4,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(5,6,20),(1,1,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,3),(5,6,20),(2,3,8),(4,6,19)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,1,3),(7,9,28),(2,3,9),(2,3,8)); lvl=4; h,r-ind=1,3
        [3,3]((7,9,28),(3,4,12),(2,3,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,8),(3,4,12),(2,3,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(2,3,8),(3,4,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(7,9,28),(3,4,12)); lvl=5; h,r-ind=1,1
      [3,3]((7,9,28),(3,4,13),(2,3,9)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((3,4,13),(4,6,19),(2,3,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,3),(7,9,28),(3,4,13),(5,6,20)); lvl=4; h,r-ind=1,3
        [3,3]((7,9,28),(4,5,16),(3,4,13)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,20),(4,5,16),(3,4,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(5,6,20),(4,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(7,9,28),(4,5,16)); lvl=5; h,r-ind=1,1
[4,3]((0,1,0),(1,2,7),(2,3,13),(2,3,8)); lvl=1; h,r-ind=1,1
  [4,3]((2,4,11),(4,6,21),(2,3,13),(1,2,6)); lvl=2; h,r-ind=1,1
    [5,3]((1,2,6),(2,3,13),(4,6,23),(3,5,17),(9,16,51)); lvl=3; h,r-ind=1,1
      [4,3]((9,15,52),(10,17,58),(4,7,23),(3,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((13,22,75),(4,7,23),(10,17,58)); lvl=5; h,r-ind=1,1
        [3,3]((9,15,52),(13,22,75),(10,17,58)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,17),(9,15,52),(13,22,75)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,17),(13,22,75),(4,7,23)); lvl=5; h,r-ind=1,1
      [3,3]((9,16,51),(4,7,23),(3,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(9,16,51),(4,7,23)); lvl=4; h,r-ind=1,1
      [4,3]((4,6,23),(5,8,29),(9,15,52),(3,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((8,13,46),(5,8,29),(9,15,52)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,17),(8,13,46),(9,15,52)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,23),(3,5,17),(8,13,46)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,23),(8,13,46),(5,8,29)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,12),(4,6,23),(5,8,29)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,6),(7,12,41),(10,17,58),(4,7,23)); lvl=4; h,r-ind=1,1
        [3,3]((7,12,41),(10,17,58),(11,19,64)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,23),(10,17,58),(11,19,64)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(7,12,41),(11,19,64)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,23),(1,2,6),(11,19,64)); lvl=5; h,r-ind=1,1
      [5,3]((2,3,12),(5,8,29),(9,15,52),(7,12,41),(10,17,58)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,35),(9,15,52),(10,17,58)); lvl=5; h,r-ind=1,1
        [3,3]((7,12,41),(6,10,35),(10,17,58)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,12),(7,12,41),(6,10,35)); lvl=5; h,r-ind=1,1
        [3,3]((5,8,29),(6,10,35),(9,15,52)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,12),(5,8,29),(6,10,35)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,13),(1,2,6),(2,3,12),(7,12,41)); lvl=4; h,r-ind=1,3; alert-r-inc
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        [3,3]((3,5,18),(1,2,6),(7,12,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,12),(3,5,18),(7,12,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,13),(2,3,12),(3,5,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,13),(3,5,18),(1,2,6)); lvl=5; h,r-ind=1,1
      [5,3]((3,5,16),(5,9,28),(2,3,11),(3,5,17),(9,16,51)); lvl=3; h,r-ind=1,1
        [4,3]((3,5,17),(8,14,45),(12,20,67),(7,12,39)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((7,12,39),(10,17,56),(8,14,45)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,17),(10,17,56),(8,14,45)); lvl=5; h,r-ind=1,1
          [3,3]((12,20,67),(7,12,39),(10,17,56)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,17),(12,20,67),(10,17,56)); lvl=5; h,r-ind=1,1
        [5,3]((3,5,16),(4,7,22),(2,3,11),(12,20,67),(7,12,39)); lvl=4; h,r-ind=1,1
          [3,3]((12,20,67),(9,15,50),(7,12,39)); lvl=5; h,r-ind=1,1
          [4,3]((13,22,72),(15,25,83),(9,15,50),(7,12,39)); lvl=5; h,r-ind=1,1
            [3,3]((22,37,122),(9,15,50),(15,25,83)); lvl=6; h,r-ind=1,1
            [3,3]((13,22,72),(22,37,122),(15,25,83)); lvl=6; h,r-ind=1,1
            [3,3]((7,12,39),(22,37,122),(9,15,50)); lvl=6; h,r-ind=1,1
            [3,3]((13,22,72),(7,12,39),(22,37,122)); lvl=6; h,r-ind=1,1
          [3,3]((4,7,22),(13,22,72),(7,12,39)); lvl=5; h,r-ind=1,1
          [4,3]((4,7,22),(6,10,33),(13,22,72),(15,25,83)); lvl=5; h,r-ind=1,1
            [3,3]((15,25,83),(6,10,33),(19,32,105)); lvl=6; h,r-ind=1,1
            [3,3]((4,7,22),(6,10,33),(19,32,105)); lvl=6; h,r-ind=1,1
            [3,3]((13,22,72),(4,7,22),(19,32,105)); lvl=6; h,r-ind=1,1
            [3,3]((13,22,72),(15,25,83),(19,32,105)); lvl=6; h,r-ind=1,1
          [3,3]((3,5,16),(4,7,22),(6,10,33)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,11),(12,20,67),(9,15,50)); lvl=5; h,r-ind=1,1
          [3,3]((15,25,83),(2,3,11),(9,15,50)); lvl=5; h,r-ind=1,1
          [3,3]((6,10,33),(15,25,83),(2,3,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,16),(6,10,33),(2,3,11)); lvl=5; h,r-ind=1,1
        [4,3]((5,9,28),(4,7,22),(8,14,45),(7,12,39)); lvl=4; h,r-ind=1,1
          [3,3]((7,12,39),(4,7,22),(12,21,67)); lvl=5; h,r-ind=1,1
          [3,3]((5,9,28),(4,7,22),(12,21,67)); lvl=5; h,r-ind=1,1
          [3,3]((8,14,45),(5,9,28),(12,21,67)); lvl=5; h,r-ind=1,1
          [3,3]((8,14,45),(7,12,39),(12,21,67)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,11),(3,5,17),(12,20,67)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,17),(9,16,51),(8,14,45)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,28),(9,16,51),(8,14,45)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,16),(4,6,21),(2,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,11),(3,5,16),(5,9,28)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((2,4,11),(5,9,28),(1,2,6),(9,16,51)); lvl=3; h,r-ind=1,1
        [3,3]((6,11,34),(5,9,28),(9,16,51)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(6,11,34),(9,16,51)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,11),(1,2,6),(6,11,34)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,11),(6,11,34),(5,9,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,11),(4,6,23),(3,5,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,7),(2,3,13),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,7),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,11),(1,2,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(2,3,8),(2,4,11),(4,6,21)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,10),(4,6,19)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,4),(1,2,5),(2,3,8),(4,6,19)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,5),(4,6,19),(2,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(4,7,18),(2,3,9)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,4),(2,3,8),(4,7,18),(2,3,9)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,9),(3,5,13),(2,3,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,4),(3,5,13),(2,3,8)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,18),(1,2,4),(3,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,18),(2,3,9),(3,5,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(1,2,4),(4,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,16),(1,2,5),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,16),(4,6,21),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,16),(2,4,11),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,4),(2,4,11)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,0,0),(0,1,0),(2,3,8),(1,1,3)); lvl=1; h,r-ind=1,1
    [6,3]((2,3,5),(3,4,9),(3,4,8),(2,3,7),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,6),(3,4,8),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,6),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,3),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(1,2,4),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(2,3,6),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(2,3,7),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,5),(2,3,4),(0,1,0),(1,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,5),(4,7,10),(1,2,2),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,7,10),(3,5,7),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,5,7),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(2,3,4),(3,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(4,7,10),(3,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(4,7,10),(0,1,0),(1,2,2)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,4,5),(1,2,2),(4,7,10)); lvl=4; h,r-ind=1,1
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        [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(0,1,0),(2,4,5)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(2,2,3),(2,3,4),(0,1,0)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,2),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=3; h,r-ind=1,1
    [5,3]((1,1,2),(2,2,3),(2,3,5),(2,3,4),(3,4,8)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,5),(5,7,11),(3,4,7),(6,8,13)); lvl=3; h,r-ind=1,1
        [3,3]((8,11,18),(6,8,13),(3,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(8,11,18),(3,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(8,11,18),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(5,7,11),(8,11,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,2),(4,5,8),(3,4,7),(6,8,13)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,7),(6,8,13),(7,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(6,8,13),(7,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(4,5,8),(7,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(3,4,7),(7,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,2),(4,5,8)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,4),(4,5,8),(5,7,11),(6,8,13)); lvl=3; h,r-ind=1,1
        [4,3]((3,4,6),(4,5,8),(6,8,13),(14,19,30)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((9,12,19),(4,5,8),(6,8,13)); lvl=5; h,r-ind=1,1
          [3,3]((14,19,30),(9,12,19),(6,8,13)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,6),(14,19,30),(9,12,19)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,6),(9,12,19),(4,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,11),(6,8,13),(14,19,30)); lvl=4; h,r-ind=1,1
        [4,3]((5,7,11),(2,3,4),(3,4,6),(14,19,30)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,6),(2,3,4),(8,11,17)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,11),(2,3,4),(8,11,17)); lvl=5; h,r-ind=1,1
          [3,3]((14,19,30),(3,4,6),(8,11,17)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,11),(14,19,30),(8,11,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(4,5,8)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((3,4,8),(2,3,5),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,8),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,5),(5,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(1,1,2),(3,4,9),(3,4,8)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,9),(3,4,8),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,8),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,9),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,1,3),(4,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(1,0,0),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(2,3,7),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(3,4,9),(2,3,8),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,8),(3,4,10),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(3,4,10),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,9),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,8),(3,4,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(1,1,5)); lvl=1; h,r-ind=2,2; optimized-h
```

16.16 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,5,16)); lvl=0; h,r-ind=16,128
  [5,3]((0,1,0),(1,0,0),(2,5,8),(2,4,7),(1,1,2)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(2,3,4),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,2),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,2),(2,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,1),(5,6,8),(1,2,2),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,1,1),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(5,6,8),(2,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,1),(2,2,3),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,4),(1,1,1),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(1,1,1)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,4,7),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,8),(2,4,7),(1,2,3)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,2,2),(1,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,4),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,4),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
  [5,3]((2,3,9),(1,1,3),(1,2,5),(2,4,7),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,4),(2,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,7),(4,5,12),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,12),(1,1,2),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,1,2),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(4,5,12),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(1,2,4),(3,4,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,8),(2,3,7),(1,2,5),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,5),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(1,2,5),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,8),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(1,2,4),(3,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(2,3,8),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,8),(2,3,7),(4,5,12),(1,1,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,7),(4,5,12),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,12),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(2,3,7),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,8),(3,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(2,3,8),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,12),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,16),(2,3,9),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,3),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,16),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((2,5,11),(3,7,17),(1,2,5),(2,5,8),(2,4,7)); lvl=1; h,r-ind=1,1
    [4,3]((3,7,16),(3,7,14),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,15),(3,7,14),(1,2,4),(5,11,24)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,4),(4,9,19),(3,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,15),(4,9,19),(3,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,24),(3,7,15),(4,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,24),(1,2,4),(4,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(5,11,24)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,5),(3,7,16),(3,7,15),(5,11,24)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,15),(3,7,16),(4,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(3,7,16),(4,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,24),(3,7,15),(4,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(5,11,24),(4,9,20)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,16),(3,7,17),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,11),(3,7,16),(3,7,17)); lvl=2; h,r-ind=1,1
    [4,3]((4,10,19),(3,7,14),(2,5,8),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((6,14,27),(1,2,4),(3,7,14)); lvl=3; h,r-ind=1,1
      [4,3]((4,10,19),(6,14,27),(2,5,9),(3,7,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,9),(5,12,23),(6,14,27)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,14),(5,12,23),(6,14,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,19),(2,5,9),(5,12,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,14),(4,10,19),(5,12,23)); lvl=4; h,r-ind=1,1
      [3,3]((6,14,27),(2,5,9),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(2,5,9),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(2,4,7),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,11),(4,10,19),(3,7,16),(3,7,14)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,10),(2,5,11),(3,7,16),(3,7,15)); lvl=3; h,r-ind=1,1
        [3,3]((5,12,26),(3,7,16),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(5,12,26),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,15),(2,5,10),(5,12,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,15),(5,12,26),(3,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(3,7,14),(3,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(4,10,19),(3,7,14)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,3,6),(2,5,11),(2,5,8)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,11),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,5),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(4,10,19),(2,5,11)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,3,5),(1,3,4),(2,5,8),(4,10,19)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,9),(1,3,4),(2,5,8),(4,11,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,13),(2,5,8),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,18),(3,8,13),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(4,11,18),(3,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(3,8,13),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,9),(4,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,9),(4,10,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,4),(4,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,9),(3,7,17),(1,2,5),(3,7,21)); lvl=1; h,r-ind=1,1
    [4,3]((3,7,19),(6,13,35),(5,11,30),(3,7,17)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,24),(5,11,30),(6,13,35)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((4,9,24),(9,20,52),(6,13,35)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((4,9,24),(3,7,17),(3,7,18),(9,20,52)); lvl=3; h,r-ind=1,1
      [4,3]((4,9,23),(3,7,18),(11,25,65),(3,7,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,16,41),(3,7,18),(11,25,65)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,23),(7,16,41),(11,25,65)); lvl=5; h,r-ind=1,1
        [3,3]((7,16,41),(3,7,17),(3,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,23),(7,16,41),(3,7,17)); lvl=5; h,r-ind=1,1
      [3,3]((4,9,24),(4,9,23),(11,25,65)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,24),(4,9,23),(9,20,52)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,24),(3,7,18),(11,25,65)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,19),(4,9,24),(3,7,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,19),(4,9,24),(5,11,30)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,6),(3,7,21),(3,7,19),(5,11,30)); lvl=2; h,r-ind=1,1
    [4,3]((4,9,25),(8,18,51),(3,7,20),(3,7,19)); lvl=3; h,r-ind=1,1
      [3,3]((8,18,51),(7,16,45),(3,7,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,19),(7,16,45),(3,7,20)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,25),(8,18,51),(7,16,45)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,19),(4,9,25),(7,16,45)); lvl=4; h,r-ind=1,1
    [3,3]((5,11,30),(4,9,25),(3,7,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(4,9,25),(8,18,51)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(5,11,30),(4,9,25)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,6),(3,7,21),(8,18,51),(3,7,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,20),(3,7,21),(4,9,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(3,7,21),(4,9,26)); lvl=4; h,r-ind=1,1
      [3,3]((8,18,51),(1,2,6),(4,9,26)); lvl=4; h,r-ind=1,1
      [3,3]((8,18,51),(3,7,20),(4,9,26)); lvl=4; h,r-ind=1,1
  [4,3]((1,2,5),(6,13,35),(8,17,46),(3,7,17)); lvl=2; h,r-ind=1,1
    [3,3]((7,15,40),(8,17,46),(6,13,35)); lvl=3; h,r-ind=1,1
    [4,3]((7,15,40),(9,20,52),(6,13,34),(6,13,35)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,29),(6,13,34),(9,20,52)); lvl=4; h,r-ind=1,1
      [3,3]((18,39,103),(5,11,29),(6,13,34)); lvl=4; h,r-ind=1,1
      [3,3]((7,15,40),(18,39,103),(6,13,34)); lvl=4; h,r-ind=1,1
      [4,3]((7,15,40),(18,39,103),(5,11,29),(6,13,35)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((12,26,69),(18,39,103),(5,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((6,13,35),(12,26,69),(5,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((7,15,40),(6,13,35),(12,26,69)); lvl=5; h,r-ind=1,1
        [3,3]((7,15,40),(12,26,69),(18,39,103)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,5),(3,7,17),(9,20,52),(6,13,34)); lvl=3; h,r-ind=1,1
      [4,3]((6,13,34),(11,24,62),(4,9,23),(9,20,52)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((10,22,57),(11,24,62),(4,9,23)); lvl=5; h,r-ind=1,1
        [3,3]((9,20,52),(10,22,57),(4,9,23)); lvl=5; h,r-ind=1,1
        [3,3]((6,13,34),(9,20,52),(10,22,57)); lvl=5; h,r-ind=1,1
        [3,3]((6,13,34),(10,22,57),(11,24,62)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,5),(6,13,34),(11,24,62)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(11,24,62),(4,9,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(3,7,17),(4,9,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(7,15,40),(6,13,34)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(7,15,40),(8,17,46)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,9),(1,2,6),(1,2,5),(8,17,46)); lvl=2; h,r-ind=1,5; alert-r-inc
    [3,3]((1,2,6),(8,17,46),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(8,17,46),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(1,2,6),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,9),(2,4,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,6),(6,13,35),(8,17,46),(5,11,30)); lvl=2; h,r-ind=1,1
    [3,3]((7,15,41),(8,17,46),(6,13,35)); lvl=3; h,r-ind=1,1
    [3,3]((5,11,30),(7,15,41),(6,13,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(5,11,30),(7,15,41)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(7,15,41),(8,17,46)); lvl=3; h,r-ind=1,1
[3,3]((2,5,16),(2,3,9),(3,7,21)); lvl=1; h,r-ind=5,5; optimized-h
[6,3]((1,3,8),(1,3,6),(2,5,11),(3,7,17),(3,7,21),(2,5,15)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,12),(3,7,17),(2,5,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,6),(2,5,12),(2,5,11)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,12),(3,7,17),(2,5,13),(3,7,19)); lvl=2; h,r-ind=1,1
    [4,3]((7,17,43),(2,5,13),(3,7,18),(3,7,19)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,7,18),(5,12,31),(3,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(5,12,31),(3,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((7,17,43),(3,7,18),(5,12,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(7,17,43),(5,12,31)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,12),(7,17,43),(3,7,17),(3,7,18)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,12,30),(3,7,18),(3,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(5,12,30),(3,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,30),(7,17,43),(3,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(5,12,30),(7,17,43)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,12),(7,17,43),(2,5,13)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,6),(1,3,7),(2,5,12),(2,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,12),(2,5,13),(3,8,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(2,5,13),(3,8,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,12),(3,8,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(1,3,6),(3,8,19)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,14),(2,5,13),(3,7,21),(3,7,19)); lvl=2; h,r-ind=1,1
```

```
      [4,3]((7,17,47),(2,5,13),(3,7,20),(3,7,19)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,33),(3,7,20),(3,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,33),(2,5,13),(3,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,47),(5,12,33),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,47),(5,12,33),(3,7,20)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,14),(7,17,47),(3,7,21),(3,7,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,20),(5,12,34),(3,7,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,14),(5,12,34),(3,7,21)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,47),(3,7,20),(5,12,34)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,14),(7,17,47),(5,12,34)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,14),(7,17,47),(2,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,14),(2,5,15),(3,7,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,8),(2,5,14),(2,5,15)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,8),(1,3,7),(2,5,14),(2,5,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,14),(2,5,13),(3,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,13),(3,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(1,3,7),(3,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(2,5,14),(3,8,21)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,16),(3,7,21),(2,5,15)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,16),(1,3,8),(2,5,15)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,8),(1,3,6)); lvl=1; h,r-ind=2,2; optimized-h
```

16.17 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,7,16)); lvl=0; h,r-ind=16,128
  [4,3]((1,0,0),(0,1,0),(2,2,3),(2,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,4),(1,2,2),(0,1,0)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,1),(1,2,2),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((4,9,11),(2,7,8),(1,4,4),(1,2,2)); lvl=2; h,r-ind=1,1
      [4,3]((4,11,13),(2,7,8),(1,3,3),(1,4,4)); lvl=3; h,r-ind=1,1
        [4,3]((2,6,7),(2,7,8),(1,4,4),(4,13,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,7,8),(3,10,11),(1,4,4)); lvl=5; h,r-ind=1,1
          [3,3]((4,13,14),(3,10,11),(1,4,4)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,7),(4,13,14),(3,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,7),(2,7,8),(3,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,4,4),(4,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(4,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(4,11,13),(2,6,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,2),(2,5,6),(4,11,13),(1,3,3)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,6),(4,11,13),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(4,11,13),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,5,6),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(3,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(4,9,11),(2,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(2,2,3),(4,9,11),(1,2,2)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,2),(4,7,9),(2,4,5),(5,8,9)); lvl=3; h,r-ind=1,1
        [4,3]((6,11,13),(3,5,6),(2,4,5),(4,7,9)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,9,11),(4,7,9),(3,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((6,11,13),(5,9,11),(3,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((5,9,11),(2,4,5),(4,7,9)); lvl=5; h,r-ind=1,1
          [3,3]((6,11,13),(5,9,11),(2,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(6,11,13),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,5,6),(5,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(6,11,13),(2,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(4,9,11),(2,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(2,2,3),(4,7,9),(5,8,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,3,4),(4,7,9),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(7,10,12),(3,5,6)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((5,8,9),(1,1,1),(7,10,12),(3,5,6)); lvl=4; h,r-ind=1,3
          [3,3]((1,1,1),(4,6,7),(7,10,12)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,6),(4,6,7),(7,10,12)); lvl=5; h,r-ind=1,1
          [3,3]((5,8,9),(3,5,6),(4,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((5,8,9),(1,1,1),(4,6,7)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,1),(2,2,3),(2,3,4),(7,10,12)); lvl=4; h,r-ind=1,3
          [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,12),(2,3,4),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(7,10,12),(3,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(5,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
  [6,3]((1,1,2),(2,5,10),(1,3,5),(2,7,9),(2,2,3),(2,7,8)); lvl=1; h,r-ind=1,1
    [4,3]((3,8,13),(1,3,5),(2,5,10),(2,5,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(3,8,14),(2,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(3,8,14),(2,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(3,8,13),(3,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,13),(1,3,5),(3,8,14)); lvl=3; h,r-ind=1,1
```

```
[3,3]((1,2,4),(2,5,10),(2,5,9)); lvl=2; h,r-ind=1,1
[6,3]((1,2,4),(3,7,11),(3,8,12),(4,10,15),(3,8,13),(2,5,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,8),(3,7,11),(1,2,4)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,9),(2,5,8),(1,2,4)); lvl=3; h,r-ind=1,1
  [3,3]((3,8,13),(2,5,9),(2,5,8)); lvl=3; h,r-ind=1,1
  [3,3]((3,8,12),(3,8,13),(2,5,8)); lvl=3; h,r-ind=1,1
  [3,3]((4,10,15),(2,5,8),(3,7,11)); lvl=3; h,r-ind=1,1
  [3,3]((3,8,12),(4,10,15),(2,5,8)); lvl=3; h,r-ind=1,1
[4,3]((1,2,4),(1,1,2),(1,2,3),(3,7,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,2),(2,4,7),(1,2,3)); lvl=3; h,r-ind=1,1
  [3,3]((3,7,11),(2,4,7),(1,2,3)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,4),(3,7,11),(2,4,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,4),(1,1,2),(2,4,7)); lvl=3; h,r-ind=1,1
[3,3]((1,1,2),(2,2,3),(1,2,3)); lvl=2; h,r-ind=1,1
[4,3]((1,2,3),(2,5,7),(3,7,11),(4,10,15)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,7),(4,10,15),(5,12,18)); lvl=3; h,r-ind=1,1
  [3,3]((3,7,11),(4,10,15),(5,12,18)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,3),(2,5,7),(5,12,18)); lvl=3; h,r-ind=1,1
  [3,3]((3,7,11),(1,2,3),(5,12,18)); lvl=3; h,r-ind=1,1
[4,3]((2,2,3),(1,2,3),(4,9,11),(2,5,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(2,5,7),(5,11,15),(9,19,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,7),(6,13,18),(5,11,15)); lvl=4; h,r-ind=1,1
    [3,3]((9,19,26),(6,13,18),(5,11,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(6,13,18)); lvl=4; h,r-ind=1,1
    [3,3]((9,19,26),(1,2,3),(6,13,18)); lvl=4; h,r-ind=1,1
  [5,3]((2,4,5),(3,6,8),(3,7,9),(5,11,15),(9,19,26)); lvl=3; h,r-ind=1,1
    [3,3]((8,17,23),(5,11,15),(9,19,26)); lvl=4; h,r-ind=1,1
    [3,3]((3,6,8),(8,17,23),(9,19,26)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,5),(3,6,8),(12,25,33)); lvl=4; h,r-ind=1,1
    [4,3]((7,15,20),(8,17,23),(4,9,12),(5,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((12,26,35),(5,11,15),(8,17,23)); lvl=5; h,r-ind=1,1
      [3,3]((7,15,20),(12,26,35),(8,17,23)); lvl=5; h,r-ind=1,1
      [3,3]((4,9,12),(12,26,35),(5,11,15)); lvl=5; h,r-ind=1,1
      [3,3]((7,15,20),(4,9,12),(12,26,35)); lvl=5; h,r-ind=1,1
    [4,3]((3,6,8),(12,25,33),(7,15,20),(8,17,23)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((10,21,28),(7,15,20),(12,25,33)); lvl=5; h,r-ind=1,1
      [3,3]((3,6,8),(10,21,28),(12,25,33)); lvl=5; h,r-ind=1,1
      [3,3]((8,17,23),(10,21,28),(7,15,20)); lvl=5; h,r-ind=1,1
      [3,3]((3,6,8),(8,17,23),(10,21,28)); lvl=5; h,r-ind=1,1
    [5,3]((2,4,5),(12,25,33),(7,15,20),(3,7,9),(4,9,12)); lvl=4; h,r-ind=1,1
      [4,3]((7,15,20),(15,32,42),(13,28,37),(9,19,25)); lvl=5; h,r-ind=1,1
        [3,3]((22,47,62),(15,32,42),(13,28,37)); lvl=6; h,r-ind=1,1
        [3,3]((7,15,20),(22,47,62),(13,28,37)); lvl=6; h,r-ind=1,1
        [3,3]((9,19,25),(7,15,20),(22,47,62)); lvl=6; h,r-ind=1,1
        [3,3]((9,19,25),(22,47,62),(15,32,42)); lvl=6; h,r-ind=1,1
      [3,3]((12,25,33),(7,15,20),(9,19,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,5),(12,25,33),(9,19,25)); lvl=5; h,r-ind=1,1
      [3,3]((4,9,12),(7,15,20),(13,28,37)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,5),(15,32,42),(9,19,25)); lvl=5; h,r-ind=1,1
      [4,3]((4,9,12),(6,13,17),(15,32,42),(13,28,37)); lvl=5; h,r-ind=1,1
        [3,3]((15,32,42),(6,13,17),(19,41,54)); lvl=6; h,r-ind=1,1
        [3,3]((4,9,12),(6,13,17),(19,41,54)); lvl=6; h,r-ind=1,1
        [3,3]((13,28,37),(4,9,12),(19,41,54)); lvl=6; h,r-ind=1,1
        [3,3]((13,28,37),(15,32,42),(19,41,54)); lvl=6; h,r-ind=1,1
      [3,3]((3,7,9),(4,9,12),(6,13,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,5),(3,7,9),(6,13,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,17),(15,32,42)); lvl=5; h,r-ind=1,1
  [3,3]((4,9,11),(2,4,5),(3,7,9)); lvl=3; h,r-ind=1,1
  [5,3]((2,2,3),(4,7,9),(3,6,8),(1,2,3),(9,19,26)); lvl=3; h,r-ind=1,1
    [3,3]((4,8,11),(3,6,8),(9,19,26)); lvl=4; h,r-ind=1,1
    [3,3]((4,8,11),(1,2,3),(9,19,26)); lvl=4; h,r-ind=1,1
    [4,3]((7,13,18),(4,8,11),(10,19,26),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((10,19,26),(4,8,11),(11,21,29)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(4,8,11),(11,21,29)); lvl=5; h,r-ind=1,1
      [3,3]((7,13,18),(1,2,3),(11,21,29)); lvl=5; h,r-ind=1,1
      [3,3]((7,13,18),(10,19,26),(11,21,29)); lvl=5; h,r-ind=1,1
    [4,3]((2,2,3),(2,3,4),(7,13,18),(1,2,3)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((2,3,4),(7,13,18),(3,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(7,13,18),(3,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((2,2,3),(1,2,3),(3,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(3,5,7)); lvl=5; h,r-ind=1,1
    [4,3]((4,8,11),(10,19,26),(9,17,23),(3,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((10,19,26),(9,17,23),(13,25,34)); lvl=5; h,r-ind=1,1
      [3,3]((3,6,8),(9,17,23),(13,25,34)); lvl=5; h,r-ind=1,1
      [3,3]((4,8,11),(3,6,8),(13,25,34)); lvl=5; h,r-ind=1,1
      [3,3]((4,8,11),(10,19,26),(13,25,34)); lvl=5; h,r-ind=1,1
    [4,3]((5,9,12),(4,7,9),(9,17,23),(3,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,8),(4,7,9),(8,15,20)); lvl=5; h,r-ind=1,1
      [3,3]((5,9,12),(4,7,9),(8,15,20)); lvl=5; h,r-ind=1,1
      [3,3]((9,17,23),(5,9,12),(8,15,20)); lvl=5; h,r-ind=1,1
```

```
        [3,3]((9,17,23),(3,6,8),(8,15,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,4),(5,9,12),(4,7,9)); lvl=4; h,r-ind=1,1
      [5,3]((2,3,4),(5,9,12),(7,13,18),(10,19,26),(9,17,23)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,15),(10,19,26),(9,17,23)); lvl=5; h,r-ind=1,1
        [3,3]((5,9,12),(6,11,15),(9,17,23)); lvl=5; h,r-ind=1,1
        [3,3]((5,9,12),(2,3,4),(6,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((7,13,18),(6,11,15),(10,19,26)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,4),(7,13,18),(6,11,15)); lvl=5; h,r-ind=1,1
    [3,3]((2,4,5),(4,7,9),(3,6,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,9),(2,5,7),(5,11,15)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((3,8,12),(3,8,13),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,13),(1,3,5),(4,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,5),(4,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,12),(1,3,4),(4,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,12),(3,8,13),(4,11,17)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,7),(3,8,12),(4,10,15),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((5,13,19),(3,8,12),(4,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,7),(5,13,19),(4,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,7),(5,13,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(5,13,19),(3,8,12)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,9),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,8),(2,7,9),(1,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((4,9,11),(2,5,7),(2,7,8),(1,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,7),(5,13,17),(9,24,31),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((6,16,21),(5,13,17),(9,24,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(6,16,21),(9,24,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,7),(6,16,21),(5,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(6,16,21)); lvl=4; h,r-ind=1,1
    [5,3]((2,7,8),(4,11,13),(3,8,10),(9,24,31),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(4,11,13),(5,14,17)); lvl=4; h,r-ind=1,1
      [4,3]((9,25,31),(3,8,10),(4,11,13),(5,14,17)); lvl=4; h,r-ind=1,1
        [3,3]((8,22,27),(4,11,13),(3,8,10)); lvl=5; h,r-ind=1,1
        [3,3]((9,25,31),(8,22,27),(3,8,10)); lvl=5; h,r-ind=1,1
        [3,3]((8,22,27),(5,14,17),(4,11,13)); lvl=5; h,r-ind=1,1
        [3,3]((9,25,31),(8,22,27),(5,14,17)); lvl=5; h,r-ind=1,1
      [4,3]((4,11,14),(10,28,35),(9,25,31),(3,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((13,36,45),(9,25,31),(10,28,35)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,14),(13,36,45),(10,28,35)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,10),(4,11,14),(13,36,45)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,10),(13,36,45),(9,25,31)); lvl=5; h,r-ind=1,1
      [3,3]((4,11,14),(3,8,10),(9,24,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(4,11,14),(9,24,31)); lvl=4; h,r-ind=1,1
      [5,3]((10,28,35),(7,20,25),(9,25,31),(2,6,7),(5,14,17)); lvl=4; h,r-ind=1,1
        [3,3]((6,17,21),(9,25,31),(5,14,17)); lvl=5; h,r-ind=1,1
        [3,3]((6,17,21),(2,6,7),(5,14,17)); lvl=5; h,r-ind=1,1
        [3,3]((7,20,25),(6,17,21),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((10,28,35),(6,17,21),(9,25,31)); lvl=5; h,r-ind=1,1
        [3,3]((10,28,35),(7,20,25),(6,17,21)); lvl=5; h,r-ind=1,1
      [4,3]((2,7,8),(1,3,4),(7,20,25),(2,6,7)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((1,3,4),(7,20,25),(3,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,7),(7,20,25),(3,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,8),(1,3,4),(3,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,7),(2,7,8),(3,9,11)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,4),(4,11,14),(10,28,35),(7,20,25)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,14),(10,28,35),(11,31,39)); lvl=5; h,r-ind=1,1
        [3,3]((7,20,25),(10,28,35),(11,31,39)); lvl=5; h,r-ind=1,1
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        [3,3]((7,20,25),(1,3,4),(11,31,39)); lvl=5; h,r-ind=1,1
    [3,3]((2,5,6),(4,11,13),(3,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,9),(2,5,7),(5,13,17)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((2,5,6),(3,8,10),(3,7,9),(5,13,17),(9,24,31)); lvl=3; h,r-ind=1,1
      [3,3]((8,21,27),(5,13,17),(9,24,31)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,10),(8,21,27),(9,24,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(3,8,10),(12,31,39)); lvl=4; h,r-ind=1,1
      [4,3]((8,21,27),(7,18,23),(4,10,13),(5,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((12,31,40),(4,10,13),(7,18,23)); lvl=5; h,r-ind=1,1
        [3,3]((8,21,27),(12,31,40),(7,18,23)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,17),(12,31,40),(4,10,13)); lvl=5; h,r-ind=1,1
        [3,3]((8,21,27),(5,13,17),(12,31,40)); lvl=5; h,r-ind=1,1
      [4,3]((3,8,10),(8,21,27),(7,18,23),(12,31,39)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((8,21,27),(10,26,33),(7,18,23)); lvl=5; h,r-ind=1,1
        [3,3]((12,31,39),(10,26,33),(7,18,23)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,10),(12,31,39),(10,26,33)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,10),(8,21,27),(10,26,33)); lvl=5; h,r-ind=1,1
      [5,3]((2,5,6),(7,18,23),(12,31,39),(3,7,9),(4,10,13)); lvl=4; h,r-ind=1,1
        [4,3]((9,23,29),(15,38,48),(13,33,42),(7,18,23)); lvl=5; h,r-ind=1,1
          [3,3]((15,38,48),(13,33,42),(22,56,71)); lvl=6; h,r-ind=1,1
          [3,3]((7,18,23),(13,33,42),(22,56,71)); lvl=6; h,r-ind=1,1
          [3,3]((9,23,29),(15,38,48),(22,56,71)); lvl=6; h,r-ind=1,1
          [3,3]((7,18,23),(9,23,29),(22,56,71)); lvl=6; h,r-ind=1,1
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          [3,3]((4,10,13),(13,33,42),(7,18,23)); lvl=5; h,r-ind=1,1
          [3,3]((12,31,39),(9,23,29),(7,18,23)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,6),(12,31,39),(9,23,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,6),(9,23,29),(15,38,48)); lvl=5; h,r-ind=1,1
          [4,3]((4,10,13),(6,15,19),(15,38,48),(13,33,42)); lvl=5; h,r-ind=1,1
            [3,3]((19,48,61),(15,38,48),(6,15,19)); lvl=6; h,r-ind=1,1
            [3,3]((4,10,13),(19,48,61),(6,15,19)); lvl=6; h,r-ind=1,1
            [3,3]((13,33,42),(4,10,13),(19,48,61)); lvl=6; h,r-ind=1,1
            [3,3]((13,33,42),(19,48,61),(15,38,48)); lvl=6; h,r-ind=1,1
          [3,3]((3,7,9),(4,10,13),(6,15,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,6),(3,7,9),(6,15,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,6),(6,15,19),(15,38,48)); lvl=5; h,r-ind=1,1
      [3,3]((4,9,11),(2,5,6),(3,7,9)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
[6,3]((3,5,11),(8,25,56),(7,22,49),(2,6,13),(1,1,2),(2,5,10)); lvl=1; h,r-ind=1,1
  [4,3]((5,14,31),(2,5,11),(9,25,55),(6,16,35)); lvl=2; h,r-ind=1,1
    [3,3]((6,16,35),(2,5,11),(11,30,66)); lvl=3; h,r-ind=1,1
    [3,3]((5,14,31),(2,5,11),(11,30,66)); lvl=3; h,r-ind=1,1
    [3,3]((9,25,55),(5,14,31),(11,30,66)); lvl=3; h,r-ind=1,1
    [3,3]((9,25,55),(6,16,35),(11,30,66)); lvl=3; h,r-ind=1,1
  [6,3]((3,8,17),(6,17,37),(7,20,44),(1,2,4),(9,25,55),(6,16,35)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,24),(6,16,35),(9,25,55)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,24),(7,20,44),(9,25,55)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,24),(6,17,37),(7,20,44)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,17),(4,11,24),(6,17,37)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,24),(1,2,4),(6,16,35)); lvl=3; h,r-ind=1,1
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  [4,3]((3,8,17),(6,17,37),(2,6,13),(2,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((5,14,30),(2,6,13),(6,17,37)); lvl=3; h,r-ind=1,1
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    [3,3]((2,5,10),(5,14,30),(2,6,13)); lvl=3; h,r-ind=1,1
  [4,3]((6,17,37),(7,20,44),(3,9,20),(2,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((9,26,57),(7,20,44),(3,9,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,13),(9,26,57),(3,9,20)); lvl=3; h,r-ind=1,1
    [3,3]((6,17,37),(2,6,13),(9,26,57)); lvl=3; h,r-ind=1,1
    [3,3]((6,17,37),(9,26,57),(7,20,44)); lvl=3; h,r-ind=1,1
  [3,3]((3,9,20),(2,6,13),(7,22,49)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,2),(1,2,4),(2,5,11),(6,16,35)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,15),(1,2,4),(6,16,35)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(3,7,15),(6,16,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,5,11),(3,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,7,15),(1,2,4)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,11),(1,1,2),(2,5,11)); lvl=2; h,r-ind=1,1
  [4,3]((7,20,44),(3,9,20),(5,14,31),(9,25,55)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,20),(5,14,31),(12,34,75)); lvl=3; h,r-ind=1,1
    [3,3]((9,25,55),(5,14,31),(12,34,75)); lvl=3; h,r-ind=1,1
    [3,3]((7,20,44),(3,9,20),(12,34,75)); lvl=3; h,r-ind=1,1
    [3,3]((9,25,55),(7,20,44),(12,34,75)); lvl=3; h,r-ind=1,1
  [3,3]((3,9,20),(7,22,49),(8,25,56)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,11),(11,30,67),(5,14,31),(2,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((8,22,49),(12,32,71),(5,14,31)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,5,11),(21,55,122),(12,32,71),(5,14,31)); lvl=3; h,r-ind=1,1
      [3,3]((21,55,122),(14,37,82),(12,32,71)); lvl=4; h,r-ind=1,1
      [3,3]((5,14,31),(14,37,82),(12,32,71)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(5,14,31),(14,37,82)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(21,55,122),(14,37,82)); lvl=4; h,r-ind=1,1
    [5,3]((5,13,29),(7,18,40),(21,55,122),(8,22,49),(12,32,71)); lvl=3; h,r-ind=1,1
      [3,3]((19,50,111),(21,55,122),(12,32,71)); lvl=4; h,r-ind=1,1
      [4,3]((10,27,60),(17,45,100),(19,50,111),(12,32,71)); lvl=4; h,r-ind=1,1
        [3,3]((29,77,171),(19,50,111),(17,45,100)); lvl=5; h,r-ind=1,1
        [3,3]((10,27,60),(29,77,171),(17,45,100)); lvl=5; h,r-ind=1,1
        [3,3]((12,32,71),(29,77,171),(19,50,111)); lvl=5; h,r-ind=1,1
        [3,3]((10,27,60),(12,32,71),(29,77,171)); lvl=5; h,r-ind=1,1
      [4,3]((7,18,40),(17,45,100),(19,50,111),(29,76,169)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((17,45,100),(24,63,140),(19,50,111)); lvl=5; h,r-ind=1,1
        [3,3]((7,18,40),(24,63,140),(19,50,111)); lvl=5; h,r-ind=1,1
        [3,3]((29,76,169),(7,18,40),(24,63,140)); lvl=5; h,r-ind=1,1
        [3,3]((29,76,169),(17,45,100),(24,63,140)); lvl=5; h,r-ind=1,1
      [5,3]((5,13,29),(8,22,49),(10,27,60),(17,45,100),(29,76,169)); lvl=4; h,r-ind=1,1
        [3,3]((10,27,60),(8,22,49),(15,40,89)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,29),(8,22,49),(15,40,89)); lvl=5; h,r-ind=1,1
        [4,3]((37,98,218),(10,27,60),(32,85,189),(15,40,89)); lvl=5; h,r-ind=1,1
          [3,3]((47,125,278),(32,85,189),(10,27,60)); lvl=6; h,r-ind=1,1
          [3,3]((15,40,89),(47,125,278),(10,27,60)); lvl=6; h,r-ind=1,1
          [3,3]((37,98,218),(15,40,89),(47,125,278)); lvl=6; h,r-ind=1,1
          [3,3]((37,98,218),(47,125,278),(32,85,189)); lvl=6; h,r-ind=1,1
        [3,3]((5,13,29),(37,98,218),(15,40,89)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,29),(37,98,218),(22,58,129)); lvl=5; h,r-ind=1,1
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      [3,3]((10,27,60),(32,85,189),(17,45,100)); lvl=5; h,r-ind=1,1
      [4,3]((37,98,218),(22,58,129),(32,85,189),(17,45,100)); lvl=5; h,r-ind=1,1
        [3,3]((54,143,318),(22,58,129),(17,45,100)); lvl=6; h,r-ind=1,1
        [3,3]((32,85,189),(54,143,318),(17,45,100)); lvl=6; h,r-ind=1,1
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        [3,3]((37,98,218),(54,143,318),(22,58,129)); lvl=6; h,r-ind=1,1
      [3,3]((22,58,129),(29,76,169),(17,45,100)); lvl=5; h,r-ind=1,1
      [3,3]((5,13,29),(22,58,129),(29,76,169)); lvl=5; h,r-ind=1,1
    [3,3]((7,18,40),(19,50,111),(21,55,122)); lvl=4; h,r-ind=1,1
    [3,3]((7,18,40),(5,13,29),(29,76,169)); lvl=4; h,r-ind=1,1
  [3,3]((5,13,29),(11,30,67),(8,22,49)); lvl=3; h,r-ind=1,1
  [3,3]((5,13,29),(7,18,40),(9,22,49)); lvl=3; h,r-ind=1,1
  [5,3]((2,5,11),(3,5,11),(7,18,40),(9,22,49),(21,55,122)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,11),(4,9,20),(15,37,82),(3,5,11)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((6,14,31),(4,9,20),(15,37,82)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,11),(6,14,31),(15,37,82)); lvl=5; h,r-ind=1,1
      [3,3]((6,14,31),(3,5,11),(4,9,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,11),(6,14,31),(3,5,11)); lvl=5; h,r-ind=1,1
    [5,3]((4,9,20),(11,27,60),(20,50,111),(15,37,82),(22,55,122)); lvl=4; h,r-ind=1,1
      [3,3]((13,32,71),(20,50,111),(22,55,122)); lvl=5; h,r-ind=1,1
      [3,3]((15,37,82),(13,32,71),(22,55,122)); lvl=5; h,r-ind=1,1
      [3,3]((4,9,20),(15,37,82),(13,32,71)); lvl=5; h,r-ind=1,1
      [3,3]((11,27,60),(13,32,71),(20,50,111)); lvl=5; h,r-ind=1,1
      [3,3]((4,9,20),(11,27,60),(13,32,71)); lvl=5; h,r-ind=1,1
    [3,3]((4,9,20),(11,27,60),(9,22,49)); lvl=4; h,r-ind=1,1
    [4,3]((11,27,60),(20,50,111),(9,22,49),(7,18,40)); lvl=4; h,r-ind=1,1
      [3,3]((20,50,111),(18,45,100),(7,18,40)); lvl=5; h,r-ind=1,1
      [3,3]((9,22,49),(18,45,100),(7,18,40)); lvl=5; h,r-ind=1,1
      [3,3]((11,27,60),(20,50,111),(18,45,100)); lvl=5; h,r-ind=1,1
      [3,3]((9,22,49),(11,27,60),(18,45,100)); lvl=5; h,r-ind=1,1
    [4,3]((9,23,51),(20,50,111),(22,55,122),(7,18,40)); lvl=4; h,r-ind=1,1
      [3,3]((29,73,162),(20,50,111),(22,55,122)); lvl=5; h,r-ind=1,1
      [3,3]((9,23,51),(29,73,162),(22,55,122)); lvl=5; h,r-ind=1,1
      [3,3]((7,18,40),(9,23,51),(29,73,162)); lvl=5; h,r-ind=1,1
      [3,3]((7,18,40),(29,73,162),(20,50,111)); lvl=5; h,r-ind=1,1
    [3,3]((21,55,122),(9,23,51),(7,18,40)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,11),(9,23,51),(15,37,82),(22,55,122)); lvl=4; h,r-ind=1,1
      [3,3]((22,55,122),(9,23,51),(24,60,133)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,11),(9,23,51),(24,60,133)); lvl=5; h,r-ind=1,1
      [3,3]((15,37,82),(2,5,11),(24,60,133)); lvl=5; h,r-ind=1,1
      [3,3]((15,37,82),(22,55,122),(24,60,133)); lvl=5; h,r-ind=1,1
    [3,3]((2,5,11),(21,55,122),(9,23,51)); lvl=4; h,r-ind=1,1
[4,3]((3,9,20),(8,25,56),(11,30,67),(5,14,31)); lvl=2; h,r-ind=1,1
  [3,3]((8,22,49),(6,17,38),(11,30,67)); lvl=3; h,r-ind=1,1
  [5,3]((8,22,49),(14,40,89),(6,17,38),(9,26,58),(26,75,167)); lvl=3; h,r-ind=1,1
    [4,3]((9,26,58),(35,100,223),(23,66,147),(20,57,127)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((35,100,223),(29,83,185),(20,57,127)); lvl=5; h,r-ind=1,1
      [3,3]((23,66,147),(29,83,185),(20,57,127)); lvl=5; h,r-ind=1,1
      [3,3]((9,26,58),(23,66,147),(29,83,185)); lvl=5; h,r-ind=1,1
      [3,3]((9,26,58),(35,100,223),(29,83,185)); lvl=5; h,r-ind=1,1
    [4,3]((11,31,69),(14,40,89),(23,66,147),(20,57,127)); lvl=4; h,r-ind=1,1
      [3,3]((23,66,147),(14,40,89),(34,97,216)); lvl=5; h,r-ind=1,1
      [3,3]((11,31,69),(14,40,89),(34,97,216)); lvl=5; h,r-ind=1,1
      [3,3]((20,57,127),(11,31,69),(34,97,216)); lvl=5; h,r-ind=1,1
      [3,3]((20,57,127),(23,66,147),(34,97,216)); lvl=5; h,r-ind=1,1
    [5,3]((8,22,49),(11,31,69),(6,17,38),(35,100,223),(20,57,127)); lvl=4; h,r-ind=1,1
      [4,3]((26,74,165),(20,57,127),(37,105,234),(43,122,272)); lvl=5; h,r-ind=1,1
        [3,3]((63,179,399),(37,105,234),(20,57,127)); lvl=6; h,r-ind=1,1
        [3,3]((26,74,165),(63,179,399),(20,57,127)); lvl=6; h,r-ind=1,1
        [3,3]((43,122,272),(26,74,165),(63,179,399)); lvl=6; h,r-ind=1,1
        [3,3]((43,122,272),(63,179,399),(37,105,234)); lvl=6; h,r-ind=1,1
      [4,3]((17,48,107),(11,31,69),(37,105,234),(43,122,272)); lvl=5; h,r-ind=1,1
        [3,3]((54,153,341),(37,105,234),(11,31,69)); lvl=6; h,r-ind=1,1
        [3,3]((17,48,107),(54,153,341),(11,31,69)); lvl=6; h,r-ind=1,1
        [3,3]((43,122,272),(17,48,107),(54,153,341)); lvl=6; h,r-ind=1,1
        [3,3]((43,122,272),(54,153,341),(37,105,234)); lvl=6; h,r-ind=1,1
      [3,3]((8,22,49),(17,48,107),(11,31,69)); lvl=5; h,r-ind=1,1
      [3,3]((6,17,38),(26,74,165),(43,122,272)); lvl=5; h,r-ind=1,1
      [3,3]((17,48,107),(6,17,38),(43,122,272)); lvl=5; h,r-ind=1,1
      [3,3]((8,22,49),(17,48,107),(6,17,38)); lvl=5; h,r-ind=1,1
      [3,3]((26,74,165),(35,100,223),(20,57,127)); lvl=5; h,r-ind=1,1
      [3,3]((6,17,38),(26,74,165),(35,100,223)); lvl=5; h,r-ind=1,1
      [3,3]((11,31,69),(20,57,127),(37,105,234)); lvl=5; h,r-ind=1,1
    [3,3]((9,26,58),(26,75,167),(23,66,147)); lvl=4; h,r-ind=1,1
    [3,3]((14,40,89),(26,75,167),(23,66,147)); lvl=4; h,r-ind=1,1
    [3,3]((6,17,38),(9,26,58),(35,100,223)); lvl=4; h,r-ind=1,1
  [3,3]((5,14,31),(8,22,49),(14,40,89)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((3,9,20),(5,14,31),(14,40,89),(26,75,167)); lvl=3; h,r-ind=1,1
    [3,3]((5,14,31),(17,49,109),(14,40,89)); lvl=4; h,r-ind=1,1
    [3,3]((26,75,167),(17,49,109),(14,40,89)); lvl=4; h,r-ind=1,1
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      [3,3]((3,9,20),(26,75,167),(17,49,109)); lvl=4; h,r-ind=1,1
      [3,3]((3,9,20),(5,14,31),(17,49,109)); lvl=4; h,r-ind=1,1
    [3,3]((6,17,38),(13,38,85),(9,26,58)); lvl=3; h,r-ind=1,1
    [5,3]((3,9,20),(8,25,56),(13,38,85),(9,26,58),(26,75,167)); lvl=3; h,r-ind=1,1
      [4,3]((3,9,20),(22,65,145),(8,25,56),(7,21,47)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((22,65,145),(10,30,67),(7,21,47)); lvl=5; h,r-ind=1,1
        [3,3]((8,25,56),(10,30,67),(7,21,47)); lvl=5; h,r-ind=1,1
        [3,3]((3,9,20),(8,25,56),(10,30,67)); lvl=5; h,r-ind=1,1
        [3,3]((3,9,20),(22,65,145),(10,30,67)); lvl=5; h,r-ind=1,1
      [5,3]((28,82,183),(16,47,105),(31,91,203),(22,65,145),(7,21,47)); lvl=4; h,r-ind=1,1
        [3,3]((19,56,125),(22,65,145),(7,21,47)); lvl=5; h,r-ind=1,1
        [3,3]((16,47,105),(19,56,125),(7,21,47)); lvl=5; h,r-ind=1,1
        [3,3]((16,47,105),(28,82,183),(19,56,125)); lvl=5; h,r-ind=1,1
        [3,3]((31,91,203),(19,56,125),(22,65,145)); lvl=5; h,r-ind=1,1
        [3,3]((28,82,183),(31,91,203),(19,56,125)); lvl=5; h,r-ind=1,1
      [3,3]((13,38,85),(16,47,105),(7,21,47)); lvl=4; h,r-ind=1,1
      [4,3]((13,38,85),(28,82,183),(16,47,105),(9,26,58)); lvl=4; h,r-ind=1,1
        [3,3]((25,73,163),(16,47,105),(28,82,183)); lvl=5; h,r-ind=1,1
        [3,3]((9,26,58),(25,73,163),(28,82,183)); lvl=5; h,r-ind=1,1
        [3,3]((13,38,85),(25,73,163),(16,47,105)); lvl=5; h,r-ind=1,1
        [3,3]((9,26,58),(13,38,85),(25,73,163)); lvl=5; h,r-ind=1,1
      [4,3]((28,82,183),(31,91,203),(12,35,78),(9,26,58)); lvl=4; h,r-ind=1,1
        [3,3]((40,117,261),(12,35,78),(31,91,203)); lvl=5; h,r-ind=1,1
        [3,3]((28,82,183),(40,117,261),(31,91,203)); lvl=5; h,r-ind=1,1
        [3,3]((9,26,58),(28,82,183),(40,117,261)); lvl=5; h,r-ind=1,1
        [3,3]((9,26,58),(40,117,261),(12,35,78)); lvl=5; h,r-ind=1,1
      [3,3]((26,75,167),(12,35,78),(9,26,58)); lvl=4; h,r-ind=1,1
      [4,3]((3,9,20),(31,91,203),(22,65,145),(12,35,78)); lvl=4; h,r-ind=1,1
        [3,3]((22,65,145),(31,91,203),(34,100,223)); lvl=5; h,r-ind=1,1
        [3,3]((12,35,78),(31,91,203),(34,100,223)); lvl=5; h,r-ind=1,1
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        [3,3]((12,35,78),(3,9,20),(34,100,223)); lvl=5; h,r-ind=1,1
      [3,3]((3,9,20),(26,75,167),(12,35,78)); lvl=4; h,r-ind=1,1
[3,3]((1,0,0),(3,5,11),(1,1,2)); lvl=1; h,r-ind=1,1
[4,3]((1,0,0),(2,7,16),(3,5,11),(8,25,56)); lvl=1; h,r-ind=1,1
  [4,3]((3,8,18),(11,30,67),(5,16,36),(8,25,56)); lvl=2; h,r-ind=1,1
    [4,3]((3,8,18),(4,12,27),(6,17,38),(13,38,85)); lvl=3; h,r-ind=1,1
      [3,3]((4,12,27),(13,38,85),(10,29,65)); lvl=4; h,r-ind=1,1
      [3,3]((6,17,38),(13,38,85),(10,29,65)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,18),(6,17,38),(10,29,65)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,18),(4,12,27),(10,29,65)); lvl=4; h,r-ind=1,1
    [4,3]((5,16,36),(4,12,27),(8,25,56),(13,38,85)); lvl=3; h,r-ind=1,1
      [3,3]((4,12,27),(13,38,85),(7,21,47)); lvl=4; h,r-ind=1,1
      [3,3]((4,12,27),(16,49,110),(7,21,47)); lvl=4; h,r-ind=1,1
      [4,3]((5,16,36),(8,25,56),(16,49,110),(7,21,47)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,21,47),(12,37,83),(8,25,56)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,36),(12,37,83),(8,25,56)); lvl=5; h,r-ind=1,1
        [3,3]((16,49,110),(5,16,36),(12,37,83)); lvl=5; h,r-ind=1,1
        [3,3]((16,49,110),(7,21,47),(12,37,83)); lvl=5; h,r-ind=1,1
      [3,3]((5,16,36),(4,12,27),(16,49,110)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,18),(11,30,67),(6,17,38)); lvl=3; h,r-ind=1,1
  [3,3]((3,8,18),(2,7,16),(5,16,36)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((3,8,18),(2,4,9),(2,7,16)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,9),(2,7,16)); lvl=2; h,r-ind=1,1
  [4,3]((3,8,18),(2,4,9),(3,5,11),(11,30,67)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,9),(3,5,11),(9,22,49),(12,29,65)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((7,17,38),(4,9,20),(9,22,49)); lvl=4; h,r-ind=1,1
      [3,3]((7,17,38),(15,34,76),(4,9,20)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((2,4,9),(3,5,11),(15,34,76),(4,9,20)); lvl=4; h,r-ind=1,3
        [3,3]((6,13,29),(4,9,20),(3,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,9),(6,13,29),(3,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((15,34,76),(6,13,29),(4,9,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,9),(15,34,76),(6,13,29)); lvl=5; h,r-ind=1,1
      [4,3]((2,4,9),(12,29,65),(7,17,38),(15,34,76)); lvl=4; h,r-ind=1,3
        [3,3]((7,17,38),(9,21,47),(12,29,65)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,9),(9,21,47),(12,29,65)); lvl=5; h,r-ind=1,1
        [3,3]((15,34,76),(7,17,38),(9,21,47)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,9),(15,34,76),(9,21,47)); lvl=5; h,r-ind=1,1
    [4,3]((3,8,18),(5,13,29),(9,22,49),(12,29,65)); lvl=3; h,r-ind=1,1
      [4,3]((15,38,85),(7,17,38),(5,13,29),(9,22,49)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,17,38),(12,30,67),(9,22,49)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,29),(12,30,67),(9,22,49)); lvl=5; h,r-ind=1,1
        [3,3]((15,38,85),(5,13,29),(12,30,67)); lvl=5; h,r-ind=1,1
        [3,3]((15,38,85),(7,17,38),(12,30,67)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,18),(15,38,85),(7,17,38)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,18),(7,17,38),(12,29,65)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,18),(15,38,85),(5,13,29)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,18),(5,13,29),(11,30,67)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,18),(2,4,9),(12,29,65)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,9),(3,5,11)); lvl=2; h,r-ind=1,1
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[3,3]((2,6,13),(2,5,10),(1,3,5)); lvl=1; h,r-ind=3,3; optimized-h
[4,3]((1,4,5),(2,7,9),(0,1,0),(2,7,8)); lvl=1; h,r-ind=1,1
  [4,3]((2,7,9),(4,15,18),(1,4,4),(2,7,8)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((4,15,18),(3,11,13),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,8),(3,11,13),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,9),(2,7,8),(3,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,9),(4,15,18),(3,11,13)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,5),(2,7,9),(4,15,18)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,4,5),(4,15,18),(1,4,4)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,8,9),(1,4,5),(4,15,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(2,8,9),(4,15,18)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,8,9),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(0,1,0),(2,8,9)); lvl=3; h,r-ind=1,1
[3,3]((1,4,8),(1,4,5),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
[7,3]((1,4,8),(7,22,49),(4,13,29),(2,6,13),(1,3,5),(1,4,5),(2,7,9)); lvl=1; h,r-ind=1,1
  [6,3]((1,3,6),(4,13,28),(2,8,13),(2,7,12),(1,4,8),(5,17,37)); lvl=2; h,r-ind=1,1
    [3,3]((4,14,25),(1,3,6),(2,7,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,7),(2,8,13),(4,14,25),(2,7,12)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,14,25),(3,11,19),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,13),(3,11,19),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,8,13),(3,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(4,14,25),(3,11,19)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,7),(4,14,25),(3,10,20),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,25),(2,7,13),(1,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,20),(2,7,13),(1,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,10,20),(2,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(4,14,25),(2,7,13)); lvl=4; h,r-ind=1,1
    [4,3]((3,10,20),(2,7,15),(7,23,49),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,15),(7,23,49),(3,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(7,23,49),(3,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(3,10,20),(3,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,20),(2,7,15),(3,10,21)); lvl=4; h,r-ind=1,1
    [3,3]((4,13,28),(7,23,49),(1,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,15),(5,17,37),(4,13,28),(7,23,49)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,17,37),(4,13,28),(6,20,43)); lvl=4; h,r-ind=1,1
      [3,3]((7,23,49),(4,13,28),(6,20,43)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,15),(5,17,37),(6,20,43)); lvl=4; h,r-ind=1,1
      [3,3]((7,23,49),(2,7,15),(6,20,43)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,7),(1,4,8),(3,10,20),(2,7,15)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,4,8),(2,7,14),(2,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,20),(2,7,14),(2,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,10,20),(2,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(1,4,8),(2,7,14)); lvl=4; h,r-ind=1,1
  [4,3]((6,19,42),(4,13,28),(4,13,29),(5,17,37)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,22),(4,13,28),(5,17,37)); lvl=3; h,r-ind=1,1
    [3,3]((5,16,35),(3,10,22),(4,13,28)); lvl=3; h,r-ind=1,1
    [4,3]((6,19,42),(5,16,35),(4,13,29),(3,10,22)); lvl=3; h,r-ind=1,1
      [3,3]((9,29,64),(3,10,22),(5,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((6,19,42),(9,29,64),(5,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,29),(9,29,64),(3,10,22)); lvl=4; h,r-ind=1,1
      [3,3]((6,19,42),(4,13,29),(9,29,64)); lvl=4; h,r-ind=1,1
  [3,3]((7,22,49),(6,19,42),(4,13,29)); lvl=2; h,r-ind=1,1
  [4,3]((2,6,13),(1,3,6),(6,19,42),(4,13,28)); lvl=2; h,r-ind=1,1
    [4,3]((8,25,54),(5,16,35),(4,13,28),(1,3,6)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((6,19,41),(4,13,28),(5,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((8,25,54),(6,19,41),(5,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(8,25,54),(6,19,41)); lvl=4; h,r-ind=1,1
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    [3,3]((2,6,13),(8,25,54),(1,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,13),(8,25,54),(5,16,35),(6,19,42)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((7,22,48),(5,16,35),(8,25,54)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(7,22,48),(8,25,54)); lvl=4; h,r-ind=1,1
      [3,3]((6,19,42),(7,22,48),(5,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(6,19,42),(7,22,48)); lvl=4; h,r-ind=1,1
  [3,3]((7,22,49),(2,6,13),(6,19,42)); lvl=2; h,r-ind=1,1
  [4,3]((2,8,13),(2,7,10),(2,7,12),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,6),(1,4,5),(2,7,10),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,10),(3,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(2,7,10),(3,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,4,5),(3,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(1,4,6),(3,11,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,12),(2,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,13),(1,4,6),(2,7,12)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,6),(2,7,10),(2,7,12),(1,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(4,13,22),(2,7,11),(2,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,11),(4,13,22),(3,10,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(4,13,22),(3,10,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,10),(2,7,11),(3,10,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,10),(3,10,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,5),(4,13,22)); lvl=3; h,r-ind=1,1
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      [4,3]((1,3,6),(4,13,22),(2,7,12),(2,7,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,11),(2,7,12),(3,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(2,7,12),(3,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,22),(2,7,11),(3,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(4,13,22),(3,10,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,10),(1,3,5),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,10),(1,4,5),(2,7,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,16),(1,4,8),(4,13,29)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((2,7,16),(8,25,56),(7,22,49),(4,13,29)); lvl=1; h,r-ind=1,1
    [4,3]((5,16,36),(16,51,114),(7,22,49),(8,25,56)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((12,38,85),(16,51,114),(7,22,49)); lvl=3; h,r-ind=1,1
      [3,3]((8,25,56),(12,38,85),(7,22,49)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,36),(8,25,56),(12,38,85)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,36),(12,38,85),(16,51,114)); lvl=3; h,r-ind=1,1
    [3,3]((4,13,29),(16,51,114),(7,22,49)); lvl=2; h,r-ind=1,1
    [4,3]((5,16,36),(2,7,16),(4,13,29),(16,51,114)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((9,29,65),(4,13,29),(2,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,36),(9,29,65),(2,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((16,51,114),(9,29,65),(4,13,29)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,36),(16,51,114),(9,29,65)); lvl=3; h,r-ind=1,1
```

16.18 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,9,16)); lvl=0; h,r-ind=16,128
  [3,3]((1,4,7),(1,4,4),(2,5,8)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((1,0,0),(1,4,4),(2,5,8)); lvl=1; h,r-ind=12,12; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,4,4)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,0,0),(1,4,7),(2,5,8)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,9,16),(1,0,0),(1,4,7)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,5,8),(1,4,7),(1,4,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,8),(1,5,7),(1,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,11),(1,5,6),(1,5,7),(1,4,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,14,19),(1,5,6),(1,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,6),(3,14,19),(1,4,7),(1,5,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,13),(1,5,7),(3,14,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(2,9,13),(3,14,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,9,13),(1,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(1,4,7),(2,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(3,14,19),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(1,4,6),(1,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,4,4),(2,8,11),(1,5,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,6),(2,10,11),(1,4,5),(2,8,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,11),(1,4,5),(2,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,9,11),(2,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,11),(2,9,11),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,8,11),(2,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,6),(2,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,10,11),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,6),(1,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,8),(1,5,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,16),(1,5,8),(1,4,7)); lvl=1; h,r-ind=1,1
```

16.19 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,11,16)); lvl=0; h,r-ind=16,128
  [5,3]((1,5,7),(3,14,20),(1,3,4),(2,7,10),(2,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((5,17,24),(2,5,7),(2,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((3,12,17),(6,22,31),(5,17,24),(2,7,10)); lvl=2; h,r-ind=1,1
      [3,3]((6,22,31),(5,17,24),(8,29,41)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(5,17,24),(8,29,41)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,17),(6,22,31),(8,29,41)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(3,12,17),(8,29,41)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,20),(3,12,17),(2,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,7),(3,14,20),(3,12,17)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,7),(4,15,21),(3,12,17),(6,22,31)); lvl=2; h,r-ind=1,1
      [3,3]((4,15,21),(6,22,31),(7,27,38)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,17),(6,22,31),(7,27,38)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(4,15,21),(7,27,38)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,17),(1,5,7),(7,27,38)); lvl=3; h,r-ind=1,1
    [5,3]((4,15,21),(6,22,31),(5,17,24),(1,3,4),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,14),(2,5,7),(5,17,24)); lvl=3; h,r-ind=1,1
      [3,3]((6,22,31),(3,10,14),(5,17,24)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,21),(6,22,31),(3,10,14)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((3,10,14),(1,3,4),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,21),(3,10,14),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(4,15,21),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,7,10),(2,5,7)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(1,3,3),(1,3,4),(2,5,7)); lvl=1; h,r-ind=1,1
    [4,3]((4,9,12),(2,3,3),(1,3,3),(1,3,4)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((5,12,15),(1,3,4),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,3
        [3,3]((2,5,6),(1,3,4),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(1,2,2),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,15),(2,5,6),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,15),(2,5,6),(1,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(5,12,15),(1,2,2)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,4,5),(2,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [4,3]((4,9,12),(2,4,5),(5,12,15),(1,3,4)); lvl=3; h,r-ind=1,3
        [3,3]((2,4,5),(5,12,15),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(5,12,15),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,12),(2,4,5),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(4,9,12),(3,7,9)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,7),(4,9,12),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,5,7),(4,9,12)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(4,9,12),(2,3,3)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,11,16),(3,14,20),(2,7,10)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(2,11,16),(2,7,10)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,5,7),(1,4,4),(1,3,3),(1,3,4)); lvl=1; h,r-ind=1,2
    [3,3]((1,4,4),(1,4,5),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,5),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,7),(1,4,4),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,5,7),(1,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((0,1,0),(1,5,7),(1,4,4),(1,6,8)); lvl=1; h,r-ind=1,2
    [3,3]((1,4,4),(1,5,6),(2,10,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,6),(2,11,13),(1,5,6),(2,10,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,12),(2,11,13),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,11),(2,11,12),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(2,10,11),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(2,11,12),(2,11,13)); lvl=3; h,r-ind=1,1
    [5,3]((0,1,0),(1,6,6),(2,11,13),(1,6,8),(2,11,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,13),(1,6,7),(2,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(1,6,7),(2,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,8),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(2,11,13),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(1,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,6,6),(1,4,4),(2,10,11)); lvl=2; h,r-ind=1,2
      [3,3]((1,5,5),(2,10,11),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,5,5),(2,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(1,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(1,4,4),(1,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,11,13),(2,11,14),(1,5,7),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,14),(3,16,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(2,11,14),(3,16,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,11,13),(3,16,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,7),(3,16,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(2,11,14),(1,5,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,11,16),(1,5,7),(1,6,8)); lvl=1; h,r-ind=1,1
  [3,3]((2,11,16),(1,5,7),(3,14,20)); lvl=1; h,r-ind=1,1
```

16.20 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,13,16)); lvl=0; h,r-ind=16,128
  [4,3]((1,7,8),(2,11,13),(1,4,4),(0,1,0)); lvl=1; h,r-ind=1,1
    [4,3]((1,6,7),(2,11,13),(1,4,4),(3,15,16)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,13),(2,10,11),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,16),(2,10,11),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,13),(2,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(3,15,16),(2,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,5),(1,4,4),(3,15,16)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,7),(1,5,5),(1,6,6),(3,15,16)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,6),(2,11,12),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,16),(2,11,12),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(3,15,16),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,6),(2,11,12)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,7),(1,7,8),(0,1,0),(1,6,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,7,8),(0,1,0),(1,7,7)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,6,6),(0,1,0),(1,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(1,7,8),(1,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,6),(1,7,7)); lvl=3; h,r-ind=1,1
  [3,3]((2,13,16),(1,7,8),(2,11,13)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,4,4),(1,2,2),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,2),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((2,11,13),(1,4,4),(1,2,2),(2,6,7),(1,5,6)); lvl=1; h,r-ind=1,1
    [4,3]((4,19,22),(1,4,4),(1,3,3),(2,8,9)); lvl=2; h,r-ind=1,1
      [4,3]((5,23,26),(7,28,31),(1,3,3),(1,4,4)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((4,17,19),(8,32,35),(7,28,31),(1,3,3)); lvl=4; h,r-ind=1,3
          [3,3]((5,20,22),(8,32,35),(1,3,3)); lvl=5; h,r-ind=1,1
          [3,3]((7,28,31),(5,20,22),(1,3,3)); lvl=5; h,r-ind=1,1
          [3,3]((4,17,19),(7,28,31),(5,20,22)); lvl=5; h,r-ind=1,1
          [3,3]((4,17,19),(5,20,22),(8,32,35)); lvl=5; h,r-ind=1,1
        [4,3]((2,9,10),(1,4,4),(8,32,35),(1,3,3)); lvl=4; h,r-ind=1,3
          [3,3]((3,12,13),(1,4,4),(1,3,3)); lvl=5; h,r-ind=1,1
          [3,3]((8,32,35),(3,12,13),(1,3,3)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,10),(8,32,35),(3,12,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,10),(3,12,13),(1,4,4)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,10),(4,17,19),(8,32,35)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((5,23,26),(2,9,10),(4,17,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,9),(7,28,31),(1,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((4,19,22),(5,23,26),(2,8,9),(7,28,31)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((4,17,19),(11,47,53),(2,8,9),(7,28,31)); lvl=4; h,r-ind=1,3
          [3,3]((6,25,28),(11,47,53),(2,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((7,28,31),(6,25,28),(2,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((4,17,19),(7,28,31),(6,25,28)); lvl=5; h,r-ind=1,1
          [3,3]((4,17,19),(6,25,28),(11,47,53)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,16),(4,17,19),(11,47,53)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,14,16),(4,17,19),(5,23,26)); lvl=4; h,r-ind=1,1
        [4,3]((4,19,22),(3,14,16),(11,47,53),(2,8,9)); lvl=4; h,r-ind=1,3
          [3,3]((3,14,16),(5,22,25),(11,47,53)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,9),(5,22,25),(11,47,53)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,22),(2,8,9),(5,22,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,22),(3,14,16),(5,22,25)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,2),(2,7,8),(1,3,3),(2,8,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,8),(2,8,9),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,8,9),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,7,8),(3,10,11)); lvl=3; h,r-ind=1,1
    [4,3]((4,19,22),(1,5,6),(2,7,8),(2,8,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,13,15),(1,5,6),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(3,13,15),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,22),(3,13,15),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(4,19,22),(3,13,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,7,8),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(2,7,8),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,13),(4,19,22),(1,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,13),(4,19,22),(1,4,4)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,13,16),(2,11,13),(1,5,6)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(1,2,2),(2,5,6),(2,6,7)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,2),(1,1,1),(2,6,7),(5,12,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(3,7,8),(5,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,7,8),(5,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,6,7),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(3,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,6,7),(5,12,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,5,6),(1,1,1),(5,12,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,6),(5,12,14),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(5,12,14),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,5,6),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,6,7)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,6),(2,6,7),(3,14,17),(1,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,7),(3,10,12),(1,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,17),(3,10,12),(1,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(2,6,7),(3,10,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,17),(2,5,6),(3,10,12)); lvl=2; h,r-ind=1,1
  [3,3]((2,13,16),(3,14,17),(1,5,6)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,13,16),(2,5,6),(3,14,17)); lvl=1; h,r-ind=1,2
    [3,3]((2,9,11),(2,13,16),(3,14,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,11),(2,5,6),(3,14,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,9,11),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,9,11),(2,13,16)); lvl=2; h,r-ind=1,1
```

16.21 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,15,16)); lvl=0; h,r-ind=16,128
```

```
  [3,3]((1,4,4),(1,1,1),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,8,8),(1,4,4),(0,1,0)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((2,15,16),(1,8,8),(1,4,4)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((2,15,16),(1,4,4),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(2,15,16),(1,1,1)); lvl=1; h,r-ind=1,1
```

16.22 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,3,16)); lvl=0; h,r-ind=16,256
  [3,3]((1,1,3),(1,0,0),(1,1,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,3,16),(1,0,0),(1,1,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,3),(1,1,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,3,16),(0,1,0),(1,1,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
```

16.23 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,4,16)); lvl=0; h,r-ind=16,64
  [4,3]((1,1,4),(2,3,9),(3,4,12),(2,3,10)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,13),(3,4,12),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(3,4,13),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(2,3,10),(3,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(3,4,13),(3,4,12)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,9),(1,2,4),(2,3,10)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,9),(4,7,18)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(2,3,10),(2,3,9),(4,7,18)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,10),(3,5,14),(2,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,18),(3,5,14),(2,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,10),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,18),(1,2,5),(3,5,14)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,5),(1,2,4),(4,7,18)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,9),(1,2,5),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,9),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,9),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(0,1,0),(2,4,9)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,16),(1,1,4),(2,3,10)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((0,1,0),(3,4,16),(2,3,10)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((2,3,9),(3,4,12),(1,2,4),(1,2,3),(3,4,8)); lvl=1; h,r-ind=1,2
    [4,3]((2,3,7),(4,7,14),(1,2,3),(2,3,6)); lvl=2; h,r-ind=1,2
      [3,3]((4,7,14),(3,5,10),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,5,10),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,6),(3,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(4,7,14),(3,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,8),(1,2,3),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,10),(3,4,8),(2,3,7),(2,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,6),(7,10,22)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,9),(3,4,8),(2,3,6),(7,10,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,8),(5,7,15),(2,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((7,10,22),(5,7,15),(2,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(3,4,8),(5,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((7,10,22),(3,4,9),(5,7,15)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,10),(3,4,9),(2,3,7),(7,10,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,9),(5,7,16),(7,10,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(5,7,16),(7,10,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,10),(2,3,7),(5,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,10),(3,4,9),(5,7,16)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,8),(3,4,12),(3,4,10),(2,3,7)); lvl=2; h,r-ind=1,1
      [4,3]((7,10,26),(2,3,7),(3,4,11),(3,4,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,18),(3,4,11),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,18),(2,3,7),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((7,10,26),(5,7,18),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((7,10,26),(5,7,18),(3,4,11)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,8),(7,10,26),(3,4,12),(3,4,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,19),(3,4,12),(3,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((7,10,26),(5,7,19),(3,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(7,10,26),(5,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(5,7,19),(3,4,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,8),(7,10,26),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(4,7,14),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,8),(2,3,7),(1,2,4),(4,7,14)); lvl=2; h,r-ind=1,2
      [3,3]((2,3,7),(4,7,14),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(4,7,14),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(1,2,4),(3,5,11)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,3,8),(2,3,7),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(2,3,8),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(2,3,8),(3,4,12)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(1,2,3),(3,4,8)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,3),(1,1,2),(3,5,7),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,7),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(2,3,4),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(1,2,2),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(2,3,4),(1,2,2)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(3,5,7),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,7),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,5,7),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,2),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,3),(1,1,2)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,2,3),(3,4,8),(1,1,2),(3,5,7)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,3,5),(3,4,8),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(2,3,5),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(3,4,8)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,4),(3,4,12),(3,4,8)); lvl=1; h,r-ind=4,4
    [3,3]((1,1,3),(1,1,4),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,10),(3,4,12)); lvl=2; h,r-ind=2,2; optimized-h
    [4,3]((1,1,3),(1,1,2),(3,4,8),(3,4,10)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,2),(5,6,14),(3,4,9),(3,4,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,5,11),(5,6,14),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,8),(4,5,11),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(3,4,8),(4,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(4,5,11),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,2),(5,6,14)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,10),(1,1,3),(5,6,14),(3,4,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,5,12),(1,1,3),(5,6,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(4,5,12),(5,6,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,10),(4,5,12),(1,1,3)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(3,4,10),(4,5,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(1,1,4)); lvl=2; h,r-ind=1,1
```

16.24 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,5,16)); lvl=0; h,r-ind=16,256
  [5,3]((1,2,5),(2,3,9),(2,3,8),(1,2,4),(5,8,24)); lvl=1; h,r-ind=1,1
    [5,3]((4,7,18),(6,10,27),(2,3,8),(5,8,22),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,22),(6,10,27),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,18),(6,10,27),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,18),(1,2,4),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,22),(2,3,8),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,8),(3,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(4,7,18),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(3,5,14),(4,7,18),(6,10,27)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,14),(6,10,27),(7,12,32)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,18),(6,10,27),(7,12,32)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(3,5,14),(7,12,32)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,18),(1,2,5),(7,12,32)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,24),(1,2,5),(3,5,14)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,9),(3,5,14),(6,10,27),(5,8,22)); lvl=2; h,r-ind=1,1
      [3,3]((8,13,36),(6,10,27),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(8,13,36),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,22),(8,13,36),(6,10,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(5,8,22),(8,13,36)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(5,8,24),(3,5,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(2,3,8),(5,8,22)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,16),(2,3,9),(5,8,24)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,16),(1,2,5),(5,8,24)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(1,2,5),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,16),(0,1,0),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,9),(1,1,3),(2,3,8)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,16),(2,3,9),(1,1,3)); lvl=1; h,r-ind=1,1
  [5,3]((1,1,2),(1,1,3),(2,3,8),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((3,5,10),(4,6,13),(1,2,4),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,17),(2,3,7),(4,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,10),(5,8,17),(4,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(5,8,17),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,10),(1,2,4),(5,8,17)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((2,3,8),(1,2,4),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,8),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(4,6,13),(3,4,9),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,9),(4,6,13),(5,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(4,6,13),(5,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,9),(5,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(1,1,3),(5,7,16)); lvl=3; h,r-ind=1,1
    [5,3]((1,1,2),(3,5,10),(1,2,3),(4,6,13),(3,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,2),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(1,1,2),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(3,4,9),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,10),(1,2,3),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,10),(4,6,13),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,2),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,10),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(1,1,2),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,1),(2,3,3),(1,1,2),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,3),(2,3,4),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,4),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,1,2),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,2),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(2,3,3),(2,3,4)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,2),(2,3,3),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(0,1,0),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,16),(1,0,0),(1,1,3)); lvl=1; h,r-ind=1,1
```

16.25 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,6,16)); lvl=0; h,r-ind=16,128
  [3,3]((2,3,7),(1,2,4),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,16),(0,1,0),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,7),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,8),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,16),(2,3,8),(1,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(1,2,3),(2,3,7),(1,2,4)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,2),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,7),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,2,3)); lvl=1; h,r-ind=3,9; optimized-h
```

16.26 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,7,16)); lvl=0; h,r-ind=16,256
  [3,3]((3,5,11),(1,0,0),(2,4,9)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,16),(1,0,0),(2,4,9)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,11),(4,7,15),(3,6,13),(2,4,9)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,15),(3,6,13),(6,11,24)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(3,6,13),(6,11,24)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(4,7,15),(6,11,24)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(3,5,11),(6,11,24)); lvl=2; h,r-ind=1,1
  [4,3]((3,7,16),(3,6,13),(3,7,15),(2,4,9)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,9),(4,9,20),(9,20,44),(7,15,33)); lvl=2; h,r-ind=1,1
      [3,3]((11,24,53),(9,20,44),(4,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(11,24,53),(4,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,33),(2,4,9),(11,24,53)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,33),(11,24,53),(9,20,44)); lvl=3; h,r-ind=1,1
    [4,3]((3,6,13),(3,7,15),(9,20,44),(7,15,33)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,11,24),(3,7,15),(9,20,44)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,24),(7,15,33),(9,20,44)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,13),(5,11,24),(7,15,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,13),(5,11,24),(3,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(3,6,13),(7,15,33)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(3,7,16),(4,9,20)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((3,7,15),(4,9,20),(9,20,44)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,16),(3,7,15),(4,9,20)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,2),(3,5,11),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((0,1,0),(2,2,3),(2,4,5),(1,3,3),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(2,3,4),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(2,4,5),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,6),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(3,5,6),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,6),(2,4,5)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,6),(1,1,2),(3,5,11),(4,7,15)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,17),(3,5,11),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(5,8,17),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,15),(5,8,17),(3,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(4,7,15),(5,8,17)); lvl=2; h,r-ind=1,1
  [7,3]((2,3,6),(1,2,3),(2,5,7),(4,7,15),(3,6,13),(2,5,10),(3,7,15)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,7),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(4,7,15),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,7),(4,10,17)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,5,10),(1,2,4),(4,10,17)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,5,10),(3,7,15),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,13),(3,7,15),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,15),(3,6,13),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,16),(2,5,10),(3,7,15)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,3,3),(2,5,7),(2,5,10)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,3),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((4,10,17),(1,3,4),(2,5,7)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,5,10),(1,3,5),(4,10,17),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(4,11,18),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(4,11,18),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(4,10,17),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,10),(2,5,9),(1,3,5),(4,11,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,9),(4,11,18),(3,8,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,11,18),(3,8,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(2,5,9),(3,8,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,5,10),(3,8,14)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,4),(1,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,16),(0,1,0),(2,5,10)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,2,3),(2,4,5),(1,3,3),(2,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(2,5,6),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(2,5,6)); lvl=2; h,r-ind=1,1
  [5,3]((2,3,6),(2,2,3),(1,2,3),(2,4,5),(1,1,2)); lvl=1; h,r-ind=1,1
    [6,3]((2,3,4),(5,7,11),(3,4,6),(6,9,14),(5,8,12),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,6,9),(5,8,12),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(4,6,9),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(3,4,6),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(6,9,14),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,6,9),(6,9,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(2,4,5),(5,8,12),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,10),(2,4,5),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(2,3,4),(3,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(2,2,3),(3,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,5),(5,7,11),(6,9,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,5),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(1,1,2),(7,10,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(1,1,2),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(2,2,3),(5,7,11),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,1,2),(2,2,3),(4,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(1,1,2),(4,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(2,3,5),(6,9,14),(5,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(1,2,3),(7,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
```

16.27 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,8,16)); lvl=0; h,r-ind=16,32
  [4,3]((3,7,14),(2,3,6),(1,3,3),(1,3,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(1,3,4),(2,5,8),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,8),(2,5,7),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,7),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,3),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,8),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(2,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,4),(2,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(3,7,14),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,6),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,4),(2,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,3,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,8,16),(3,7,14),(1,3,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(3,8,16),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,6),(1,3,3)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

16.28 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,9,16)); lvl=0; h,r-ind=16,256
  [3,3]((1,2,3),(1,3,5),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,3,5),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,9,16),(0,1,0),(1,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(4,5,8),(1,2,3),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(1,2,3),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(2,2,3),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(2,3,3),(2,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,3),(1,2,2),(4,7,9),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,2),(4,7,9),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(4,7,9),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(2,3,4),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(1,2,2),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,9),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,2),(4,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(2,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(2,3,4),(1,1,1)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,3),(5,6,8),(1,1,1)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(5,6,8),(2,3,4)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(4,5,8),(2,3,5)); lvl=1; h,r-ind=1,1
  [5,3]((3,7,12),(4,5,8),(2,3,5),(1,2,3),(1,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(3,7,12),(3,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(3,7,12),(3,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,5),(4,8,13)); lvl=2; h,r-ind=1,1
    [4,3]((6,11,18),(5,8,13),(2,3,5),(3,6,10)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,13),(2,3,5),(8,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,10),(2,3,5),(8,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,18),(5,8,13),(8,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,10),(6,11,18),(8,14,23)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,5),(4,8,13),(6,11,18),(3,6,10)); lvl=2; h,r-ind=1,1
      [3,3]((4,8,13),(6,11,18),(7,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,10),(6,11,18),(7,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(4,8,13),(7,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,10),(1,3,5),(7,14,23)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(4,8,13),(6,11,18),(5,8,13)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((4,8,13),(6,11,18),(13,24,39)); lvl=3; h,r-ind=1,1
      [4,3]((5,8,13),(3,5,8),(6,11,18),(13,24,39)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,8),(13,24,39),(9,16,26)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,18),(13,24,39),(9,16,26)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,13),(3,5,8),(9,16,26)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,18),(5,8,13),(9,16,26)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(3,5,8),(4,8,13),(13,24,39)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,8),(7,13,21),(13,24,39)); lvl=4; h,r-ind=1,1
        [3,3]((4,8,13),(7,13,21),(13,24,39)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(4,8,13),(7,13,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(3,5,8),(7,13,21)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,8),(1,2,3),(5,8,13)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,5,8),(5,8,13),(2,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,12),(3,8,14),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,9,16),(3,8,14),(1,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(3,7,12),(3,8,14),(2,3,5)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,7),(7,14,24),(3,8,14),(3,7,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,14,24),(3,7,12),(5,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,14),(3,7,12),(5,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(3,8,14),(5,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(7,14,24),(5,11,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(7,14,24),(3,7,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,4,7),(2,3,5),(7,14,24)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,7,12),(2,4,7),(7,14,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(4,7,12),(7,14,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(4,7,12),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,0,0),(4,7,12)); lvl=3; h,r-ind=1,1
  [3,3]((3,9,16),(1,0,0),(3,8,14)); lvl=1; h,r-ind=2,2; optimized-h
```

16.29 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,12,16)); lvl=0; h,r-ind=16,64
  [3,3]((1,0,0),(1,2,2),(1,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,3,3),(1,4,5),(1,2,2),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,5),(1,3,4),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,4),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(1,4,5),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(2,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((3,12,16),(1,4,5),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,4,5)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((3,12,16),(0,1,0),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

16.30 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,14,16)); lvl=0; h,r-ind=16,128
  [3,3]((0,1,0),(1,3,3),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((3,9,10),(6,23,25),(1,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((3,11,12),(6,23,25),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((3,11,12),(6,21,23),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,14),(1,2,2),(6,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,12),(4,13,14),(6,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,12),(1,3,3),(4,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(4,13,14),(1,2,2)); lvl=3; h,r-ind=1,1
    [4,3]((3,9,10),(6,21,23),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,11),(6,21,23),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,11),(5,13,14),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(5,13,14),(1,2,2)); lvl=3; h,r-ind=1,1
      [4,3]((3,10,11),(3,9,10),(1,1,1),(5,13,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,9,10),(4,11,12),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,14),(4,11,12),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,11),(5,13,14),(4,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,11),(3,9,10),(4,11,12)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,0),(2,7,8),(3,9,10),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,9),(2,7,8),(3,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(1,1,1),(3,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,8,9),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,8,9),(2,7,8)); lvl=2; h,r-ind=1,1
  [4,3]((3,14,16),(2,7,8),(3,9,10),(6,23,25)); lvl=1; h,r-ind=1,1
    [3,3]((2,8,9),(3,9,10),(6,21,23)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,8,9),(3,11,12),(6,21,23)); lvl=2; h,r-ind=1,1
    [4,3]((9,37,41),(2,8,9),(6,23,25),(3,11,12)); lvl=2; h,r-ind=1,1
      [3,3]((10,39,43),(2,8,9),(3,11,12)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((5,20,22),(6,23,25),(10,39,43),(3,11,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,31,34),(6,23,25),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((10,39,43),(8,31,34),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((5,20,22),(10,39,43),(8,31,34)); lvl=4; h,r-ind=1,1
        [3,3]((5,20,22),(8,31,34),(6,23,25)); lvl=4; h,r-ind=1,1
      [3,3]((5,20,22),(10,39,43),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,20,22),(9,37,41),(2,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((9,37,41),(3,14,16),(2,8,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,8,9),(2,7,8),(3,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,16),(2,8,9),(2,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,5),(0,1,0),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,5,5),(3,14,15),(6,23,25),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,3),(6,23,25),(3,12,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(1,4,4),(6,25,27),(3,12,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,4),(6,25,27),(4,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,13),(6,25,27),(4,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,12,13),(4,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,4,4),(4,16,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,5),(1,4,4),(3,14,15),(6,25,27)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,4),(3,13,14),(5,22,23)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,5),(3,14,15),(3,13,14),(5,22,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,18,19),(3,14,15),(3,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((5,22,23),(4,18,19),(3,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(5,22,23),(4,18,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(4,18,19),(3,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(1,4,4),(5,22,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(6,25,27),(3,13,14)); lvl=3; h,r-ind=1,1
  [3,3]((3,14,16),(3,14,15),(6,23,25)); lvl=1; h,r-ind=15,15; optimized-h
  [3,3]((3,14,16),(1,5,5),(3,14,15)); lvl=1; h,r-ind=1,1
  [3,3]((3,14,16),(1,5,5),(0,1,0)); lvl=1; h,r-ind=1,1
```

16.31 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,15,16)); lvl=0; h,r-ind=16,256
  [3,3]((1,3,3),(0,1,0),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,15,16),(1,3,3),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(3,15,16),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,5),(1,3,3),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,15,16),(1,5,5),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,15,16),(1,5,5),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
```

16.32 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,5,16)); lvl=0; h,r-ind=16,64
  [3,3]((1,1,2),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,16),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(1,0,0)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((0,1,0),(1,1,2),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,8),(1,1,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,5,16),(2,3,8),(1,1,3)); lvl=1; h,r-ind=2,2; optimized-h
```

16.33 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,7,16)); lvl=0; h,r-ind=16,64
  [5,3]((1,1,2),(3,4,8),(2,2,3),(2,3,4),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(3,4,7),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,7),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(4,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,5),(5,7,11),(3,4,7),(6,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((8,11,18),(6,8,13),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(8,11,18),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(8,11,18),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,7,11),(8,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(2,3,5),(5,7,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(4,5,8),(5,7,11),(6,8,13)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,6),(4,5,8),(6,8,13),(14,19,30)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,12,19),(4,5,8),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((14,19,30),(9,12,19),(6,8,13)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((3,4,6),(14,19,30),(9,12,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(9,12,19),(4,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((5,7,11),(6,8,13),(14,19,30)); lvl=3; h,r-ind=1,1
    [4,3]((5,7,11),(2,3,4),(3,4,6),(14,19,30)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,6),(2,3,4),(8,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(2,3,4),(8,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((14,19,30),(3,4,6),(8,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(14,19,30),(8,11,17)); lvl=4; h,r-ind=1,1
  [3,3]((2,2,3),(2,3,4),(4,5,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,1,2),(4,5,8),(3,4,7),(6,8,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,7),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,8),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(4,5,8),(7,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,7),(7,9,15)); lvl=3; h,r-ind=1,1
[4,3]((1,2,3),(0,1,0),(2,3,4),(2,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,5),(4,7,10),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((4,7,10),(3,5,7),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(3,5,7),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(4,7,10),(0,1,0),(1,2,2)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,4,5),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(0,1,0),(2,4,5)); lvl=3; h,r-ind=1,1
[4,3]((3,4,8),(1,2,4),(1,2,3),(2,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,6),(1,2,4),(1,2,3),(5,8,14)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((3,5,9),(1,2,3),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(3,5,9),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,14),(3,5,9),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(5,8,14),(3,5,9)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,5),(1,2,3),(5,8,14)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,5),(3,4,8),(2,3,6),(5,8,14)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((3,4,8),(4,6,11),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,14),(4,6,11),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(5,8,14),(4,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(3,4,8),(4,6,11)); lvl=3; h,r-ind=1,1
[3,3]((1,2,4),(1,2,3),(0,1,0)); lvl=1; h,r-ind=1,1
[4,3]((3,5,11),(4,6,13),(3,4,8),(1,2,4)); lvl=1; h,r-ind=1,1
  [4,3]((4,6,13),(9,14,30),(2,3,6),(3,4,8)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((6,9,19),(2,3,6),(9,14,30)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,13),(6,9,19),(9,14,30)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,8),(6,9,19),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,13),(3,4,8),(6,9,19)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,11),(4,6,13),(9,14,30)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,4),(3,5,11),(9,14,30),(2,3,6)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((3,5,11),(5,8,17),(9,14,30)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(5,8,17),(9,14,30)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,6),(5,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,11),(5,8,17)); lvl=3; h,r-ind=1,1
[3,3]((4,7,16),(3,5,11),(1,2,4)); lvl=1; h,r-ind=1,1
[4,3]((4,7,16),(3,5,11),(4,6,13),(6,9,20)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,11),(12,19,42),(4,6,13)); lvl=2; h,r-ind=1,1
  [4,3]((5,8,18),(6,9,20),(12,19,42),(4,6,13)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((6,9,20),(9,14,31),(4,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((12,19,42),(9,14,31),(4,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,18),(6,9,20),(9,14,31)); lvl=3; h,r-ind=1,1
    [3,3]((12,19,42),(5,8,18),(9,14,31)); lvl=3; h,r-ind=1,1
  [4,3]((4,7,16),(5,8,18),(3,5,11),(12,19,42)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((8,13,29),(5,8,18),(12,19,42)); lvl=3; h,r-ind=1,1
    [3,3]((8,13,29),(3,5,11),(12,19,42)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,16),(8,13,29),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,16),(8,13,29),(5,8,18)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
[5,3]((4,6,13),(6,9,20),(4,5,11),(1,1,2),(3,4,8)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,11),(8,11,24),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((12,17,37),(5,7,15),(8,11,24),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((13,18,39),(1,1,2),(5,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((12,17,37),(13,18,39),(5,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((8,11,24),(13,18,39),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((12,17,37),(8,11,24),(13,18,39)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,8),(5,7,15),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((4,6,13),(3,4,8),(5,7,15)); lvl=2; h,r-ind=1,1
  [4,3]((6,9,20),(11,16,35),(12,17,37),(8,11,24)); lvl=2; h,r-ind=1,1
    [3,3]((11,16,35),(12,17,37),(30,43,94)); lvl=3; h,r-ind=1,1
    [4,3]((7,10,22),(8,11,24),(12,17,37),(30,43,94)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((12,17,37),(8,11,24),(19,27,59)); lvl=4; h,r-ind=1,1
      [3,3]((7,10,22),(8,11,24),(19,27,59)); lvl=4; h,r-ind=1,1
      [3,3]((30,43,94),(12,17,37),(19,27,59)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((7,10,22),(30,43,94),(19,27,59)); lvl=4; h,r-ind=1,1
    [4,3]((6,9,20),(7,10,22),(11,16,35),(30,43,94)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((7,10,22),(30,43,94),(18,26,57)); lvl=4; h,r-ind=1,1
      [3,3]((11,16,35),(30,43,94),(18,26,57)); lvl=4; h,r-ind=1,1
      [3,3]((6,9,20),(11,16,35),(18,26,57)); lvl=4; h,r-ind=1,1
      [3,3]((6,9,20),(7,10,22),(18,26,57)); lvl=4; h,r-ind=1,1
  [4,3]((4,6,13),(11,16,35),(12,17,37),(5,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((12,17,37),(11,16,35),(16,23,50)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,13),(11,16,35),(16,23,50)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,15),(4,6,13),(16,23,50)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,15),(12,17,37),(16,23,50)); lvl=3; h,r-ind=1,1
  [3,3]((6,9,20),(4,6,13),(11,16,35)); lvl=2; h,r-ind=1,1
  [3,3]((6,9,20),(4,5,11),(8,11,24)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[4,3]((1,0,0),(4,7,16),(6,9,20),(4,5,11)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,9),(6,9,20),(5,8,18)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,9),(4,7,16),(5,8,18)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,4,9),(4,7,16)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,9),(4,5,11),(6,9,20)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,4,9),(4,5,11)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(4,5,11),(1,1,2)); lvl=1; h,r-ind=1,1
[4,3]((1,0,0),(0,1,0),(2,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,4),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((2,2,3),(2,3,4),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
```

16.34 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,9,16)); lvl=0; h,r-ind=16,64
  [3,3]((2,3,5),(4,5,8),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(4,5,8),(1,0,0)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,4,7),(2,3,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,9,16),(2,4,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,2),(3,6,10),(2,3,5),(4,5,8)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(9,14,22),(3,6,10),(2,3,5)); lvl=2; h,r-ind=1,4; alert-r-inc
      [3,3]((3,5,8),(9,14,22),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,10),(3,5,8),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,6,10),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,8),(9,14,22)); lvl=3; h,r-ind=1,1
    [4,3]((6,9,14),(9,14,22),(4,5,8),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(15,22,35),(8,12,19)); lvl=3; h,r-ind=1,1
      [4,3]((6,9,14),(5,7,11),(15,22,35),(8,12,19)); lvl=3; h,r-ind=1,1
        [3,3]((13,19,30),(15,22,35),(5,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(13,19,30),(5,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((8,12,19),(13,19,30),(15,22,35)); lvl=4; h,r-ind=1,1
        [3,3]((8,12,19),(6,9,14),(13,19,30)); lvl=4; h,r-ind=1,1
      [3,3]((9,14,22),(2,3,5),(8,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(9,14,22),(8,12,19)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,8),(5,7,11),(2,3,5),(15,22,35)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,11),(15,22,35),(7,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(15,22,35),(7,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(5,7,11),(7,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(4,5,8),(7,10,16)); lvl=4; h,r-ind=1,1
    [4,3]((5,7,10),(6,9,14),(4,6,9),(4,5,8)); lvl=2; h,r-ind=1,1
      [4,3]((4,6,9),(6,9,14),(16,23,35),(9,13,20)); lvl=3; h,r-ind=1,1
        [3,3]((9,13,20),(13,19,29),(6,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(13,19,29),(6,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((16,23,35),(4,6,9),(13,19,29)); lvl=4; h,r-ind=1,1
        [3,3]((16,23,35),(9,13,20),(13,19,29)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,6),(5,7,11),(16,23,35),(9,13,20)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,11),(12,17,26),(9,13,20)); lvl=4; h,r-ind=1,1
        [3,3]((16,23,35),(12,17,26),(9,13,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(16,23,35),(12,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(5,7,11),(12,17,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,11),(4,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(9,13,20)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,10),(3,4,6),(4,6,9),(16,23,35)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((7,10,15),(3,4,6),(16,23,35)); lvl=4; h,r-ind=1,1
        [3,3]((7,10,15),(4,6,9),(16,23,35)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,10),(7,10,15),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,10),(7,10,15),(3,4,6)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(6,9,14),(4,6,9),(9,14,22)); lvl=2; h,r-ind=1,1
      [3,3]((4,6,9),(7,11,17),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((9,14,22),(7,11,17),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(9,14,22),(7,11,17)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,2,3),(4,6,9),(7,11,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(1,2,2),(5,7,10),(4,6,9)); lvl=2; h,r-ind=1,1
      [4,3]((4,6,9),(7,11,16),(5,7,10),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,4),(7,11,16),(6,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(7,11,16),(6,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,10),(2,3,4),(6,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(5,7,10),(6,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(7,11,16),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,6,9),(7,11,16)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(2,5,8),(1,2,2),(3,6,10)); lvl=1; h,r-ind=4,2
    [3,3]((2,5,8),(3,6,10),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,8),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((2,4,7),(3,6,10),(2,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((4,9,16),(2,5,8),(2,4,7),(3,6,10)); lvl=1; h,r-ind=1,1
    [3,3]((6,13,22),(2,4,7),(3,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,8),(6,13,22),(3,6,10)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,7,12),(2,5,8),(6,13,22)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((3,7,12),(4,9,16),(6,13,22),(2,4,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,11,19),(4,9,16),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,22),(5,11,19),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(6,13,22),(5,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(5,11,19),(4,9,16)); lvl=3; h,r-ind=1,1
```

16.35 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,13,16)); lvl=0; h,r-ind=16,64
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,6),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,6),(3,9,11),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,13,16),(3,9,11),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
  [5,3]((2,7,8),(2,6,7),(5,13,15),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
    [4,3]((2,6,7),(3,9,10),(4,11,12),(3,8,9)); lvl=2; h,r-ind=1,1
      [3,3]((6,17,19),(3,9,10),(4,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(6,17,19),(4,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,8,9),(6,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(6,17,19),(3,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(4,11,12),(3,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((5,13,15),(1,2,2),(3,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(5,13,15),(3,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,8),(2,6,7),(3,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(3,9,10),(4,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(4,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,8),(1,4,4),(1,3,3),(3,9,10)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,11),(1,4,4),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,10),(3,10,11),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,9,10),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,10,11),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(0,1,0),(1,3,3)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,6),(3,9,11),(2,6,7),(5,13,15)); lvl=1; h,r-ind=1,2
    [3,3]((4,11,13),(3,9,11),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((5,13,15),(4,11,13),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(5,13,15),(4,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(4,11,13),(3,9,11)); lvl=2; h,r-ind=1,1
  [4,3]((4,13,16),(2,7,8),(3,9,11),(2,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,9,11),(2,6,7),(8,25,30)); lvl=2; h,r-ind=1,1
    [4,3]((3,10,12),(2,7,8),(2,6,7),(8,25,30)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,16,19),(2,7,8),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((8,25,30),(5,16,19),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(8,25,30),(5,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(5,16,19),(2,7,8)); lvl=3; h,r-ind=1,1
    [4,3]((4,13,16),(3,10,12),(3,9,11),(8,25,30)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,10,12),(6,19,23),(8,25,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,11),(6,19,23),(8,25,30)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,16),(3,9,11),(6,19,23)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,16),(3,10,12),(6,19,23)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,6),(5,13,15),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,2
    [3,3]((1,2,2),(5,13,15),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(5,13,15),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(1,1,1),(3,7,8)); lvl=2; h,r-ind=1,1
```

16.36 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,15,16)); lvl=0; h,r-ind=16,64
  [3,3]((0,1,0),(1,4,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,15,16),(1,4,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,1,1),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((4,15,16),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,15,16),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
```

16.37 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,5,16)); lvl=0; h,r-ind=16,256
  [3,3]((1,1,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(1,0,0)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((5,5,16),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,16),(0,1,0),(1,1,3)); lvl=1; h,r-ind=1,1
```

16.38 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,7,16)); lvl=0; h,r-ind=16,256
  [4,3]((1,2,3),(2,3,5),(2,3,6),(3,4,8)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(3,4,8),(4,6,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(3,4,8),(4,6,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(4,6,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,6,11)); lvl=2; h,r-ind=1,1
  [4,3]((4,5,11),(3,4,9),(2,3,6),(3,4,8)); lvl=1; h,r-ind=1,1
    [3,3]((6,8,17),(2,3,6),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,11),(6,8,17),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(6,8,17),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,11),(3,4,8),(6,8,17)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,16),(3,4,9),(2,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(2,3,5),(3,4,8)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,11),(1,1,2),(3,4,8)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,11),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,11),(3,4,9),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,7,16),(3,4,9),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,7,16),(1,2,3),(2,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,7,16),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,3),(1,2,2),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,5),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,2),(2,2,3),(1,2,2),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,4),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(2,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,2,3),(1,2,2)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,1),(2,2,3),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
```

16.39 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,8,16)); lvl=0; h,r-ind=16,32
  [3,3]((1,1,2),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,3),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((5,8,16),(1,2,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,8),(1,2,3),(1,1,2),(1,2,2)); lvl=1; h,r-ind=1,2
    [3,3]((1,2,3),(1,2,2),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,2),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,8),(2,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,8),(2,3,6),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,8,16),(2,3,6),(1,2,3)); lvl=1; h,r-ind=1,1
```

16.40 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,10,16)); lvl=0; h,r-ind=16,128
  [3,3]((1,0,0),(3,5,8),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,10,16),(3,5,8),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,4),(1,0,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,10,16),(0,1,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(2,3,4),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
```

16.41 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,14,16)); lvl=0; h,r-ind=16,128
  [3,3]((5,14,16),(4,10,11),(4,11,12)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,2,2),(1,3,3),(4,10,11),(4,11,12)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,3),(4,11,12),(5,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((4,10,11),(4,11,12),(5,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(5,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((4,10,11),(1,2,2),(5,13,14)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,14,16),(1,3,3),(4,11,12)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,14,16),(1,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((5,14,16),(4,9,10),(3,7,8),(4,10,11)); lvl=1; h,r-ind=1,1
    [3,3]((10,24,27),(4,9,10),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(10,24,27),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((5,14,16),(3,8,9),(3,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((3,8,9),(10,24,27),(4,10,11),(4,9,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,17,19),(4,9,10),(10,24,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(7,17,19),(10,24,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,11),(7,17,19),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(4,10,11),(7,17,19)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,1),(1,2,2),(4,9,10),(4,10,11)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(4,10,11),(5,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,10),(4,10,11),(5,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(5,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,10),(1,1,1),(5,11,12)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,1),(4,9,10),(3,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((4,8,9),(1,1,1),(4,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,9),(3,7,8),(4,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(4,8,9),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(4,8,9),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

16.42 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,15,16)); lvl=0; h,r-ind=16,256
  [3,3]((1,2,2),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,15,16),(1,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,15,16),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((5,15,16),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(5,15,16),(1,1,1)); lvl=1; h,r-ind=1,1
```

16.43 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,7,16)); lvl=0; h,r-ind=16,128
  [3,3]((1,0,0),(1,1,2),(5,5,11)); lvl=1; h,r-ind=1,1
  [3,3]((6,7,16),(1,1,2),(5,5,11)); lvl=1; h,r-ind=1,1
  [3,3]((6,7,16),(6,7,15),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,12),(6,7,15),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,7),(5,6,12),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,5),(3,4,8)); lvl=1; h,r-ind=1,1
  [3,3]((6,7,16),(5,6,13),(6,7,15)); lvl=1; h,r-ind=1,1
  [6,3]((2,3,5),(3,4,7),(5,6,12),(3,4,8),(5,6,13),(6,7,15)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,10),(6,7,15),(5,6,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,7),(4,5,10),(5,6,12)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((2,3,5),(3,4,7),(4,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,13),(4,5,10),(6,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(5,6,13),(4,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(3,4,8),(4,5,10)); lvl=2; h,r-ind=1,1
  [3,3]((6,7,16),(3,4,8),(5,6,13)); lvl=1; h,r-ind=1,1
  [3,3]((6,7,16),(1,0,0),(5,5,11)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((2,2,3),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,7),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,5),(3,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
```

16.44 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,9,16)); lvl=0; h,r-ind=16,128
  [5,3]((9,11,18),(4,6,9),(3,4,6),(5,7,12),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,6),(4,6,9),(5,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(4,6,9),(5,7,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,5),(5,7,12),(11,15,25),(19,26,43)); lvl=2; h,r-ind=1,1
      [3,3]((13,18,30),(5,7,12),(11,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((19,26,43),(13,18,30),(11,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(19,26,43),(13,18,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(13,18,30),(5,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,15),(5,7,12),(11,15,25)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((4,5,8),(6,8,13),(3,4,6),(5,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,11),(6,8,13),(9,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(6,8,13),(9,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(4,5,8),(9,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,11),(9,12,19)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,5),(6,8,13),(19,26,43),(5,7,11)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((6,8,13),(8,11,18),(19,26,43)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(8,11,18),(19,26,43)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(6,8,13),(8,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,7,11),(8,11,18)); lvl=3; h,r-ind=1,1
    [5,3]((4,5,8),(7,9,15),(11,15,25),(6,8,13),(19,26,43)); lvl=2; h,r-ind=1,1
      [3,3]((11,15,25),(19,26,43),(17,23,38)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,13),(19,26,43),(17,23,38)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(6,8,13),(25,33,54)); lvl=3; h,r-ind=1,1
      [4,3]((9,12,20),(15,20,33),(11,15,25),(17,23,38)); lvl=3; h,r-ind=1,1
        [3,3]((15,20,33),(17,23,38),(26,35,58)); lvl=4; h,r-ind=1,1
        [3,3]((11,15,25),(17,23,38),(26,35,58)); lvl=4; h,r-ind=1,1
        [3,3]((9,12,20),(15,20,33),(26,35,58)); lvl=4; h,r-ind=1,1
        [3,3]((11,15,25),(9,12,20),(26,35,58)); lvl=4; h,r-ind=1,1
      [4,3]((6,8,13),(15,20,33),(25,33,54),(17,23,38)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((21,28,46),(15,20,33),(25,33,54)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,13),(21,28,46),(25,33,54)); lvl=4; h,r-ind=1,1
        [3,3]((17,23,38),(21,28,46),(15,20,33)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,13),(17,23,38),(21,28,46)); lvl=4; h,r-ind=1,1
      [5,3]((4,5,8),(7,9,15),(9,12,20),(15,20,33),(25,33,54)); lvl=3; h,r-ind=1,1
        [3,3]((9,12,20),(13,17,28),(7,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(13,17,28),(7,9,15)); lvl=4; h,r-ind=1,1
        [4,3]((9,12,20),(28,37,61),(32,42,69),(13,17,28)); lvl=4; h,r-ind=1,1
          [3,3]((28,37,61),(32,42,69),(41,54,89)); lvl=5; h,r-ind=1,1
          [3,3]((13,17,28),(32,42,69),(41,54,89)); lvl=5; h,r-ind=1,1
          [3,3]((9,12,20),(28,37,61),(41,54,89)); lvl=5; h,r-ind=1,1
          [3,3]((13,17,28),(9,12,20),(41,54,89)); lvl=5; h,r-ind=1,1
        [3,3]((9,12,20),(28,37,61),(15,20,33)); lvl=4; h,r-ind=1,1
        [4,3]((28,37,61),(32,42,69),(19,25,41),(15,20,33)); lvl=4; h,r-ind=1,1
          [3,3]((47,62,102),(19,25,41),(32,42,69)); lvl=5; h,r-ind=1,1
          [3,3]((28,37,61),(47,62,102),(32,42,69)); lvl=5; h,r-ind=1,1
          [3,3]((15,20,33),(47,62,102),(19,25,41)); lvl=5; h,r-ind=1,1
          [3,3]((28,37,61),(15,20,33),(47,62,102)); lvl=5; h,r-ind=1,1
        [3,3]((25,33,54),(19,25,41),(15,20,33)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(25,33,54),(19,25,41)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(32,42,69),(19,25,41)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(32,42,69),(13,17,28)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,8),(7,9,15),(9,11,18)); lvl=2; h,r-ind=1,1
  [3,3]((6,9,16),(5,7,12),(2,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,7),(4,6,9),(2,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,5,8),(3,5,7),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(3,5,8),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,7),(2,4,5),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,5,7),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(3,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((6,9,16),(3,5,8),(2,3,5)); lvl=1; h,r-ind=1,1
  [5,3]((5,5,8),(9,11,18),(2,2,3),(3,4,6),(4,5,7)); lvl=1; h,r-ind=1,1
    [4,3]((5,6,9),(6,7,11),(4,5,8),(3,4,6)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((9,11,17),(4,5,8),(6,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,9),(9,11,17),(6,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,6,9),(9,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(9,11,17),(4,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,9),(4,5,7),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,9),(2,2,3),(4,5,7)); lvl=2; h,r-ind=1,1
    [5,3]((7,8,13),(11,12,19),(6,7,11),(19,21,33),(4,5,8)); lvl=2; h,r-ind=1,1
      [4,3]((9,10,16),(15,17,27),(17,19,30),(11,12,19)); lvl=3; h,r-ind=1,1
        [3,3]((26,29,46),(17,19,30),(15,17,27)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,16),(26,29,46),(15,17,27)); lvl=4; h,r-ind=1,1
        [3,3]((11,12,19),(26,29,46),(17,19,30)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,16),(11,12,19),(26,29,46)); lvl=4; h,r-ind=1,1
      [3,3]((19,21,33),(17,19,30),(11,12,19)); lvl=3; h,r-ind=1,1
      [4,3]((15,17,27),(17,19,30),(6,7,11),(25,29,46)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((17,19,30),(21,24,38),(6,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((25,29,46),(21,24,38),(6,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((15,17,27),(17,19,30),(21,24,38)); lvl=4; h,r-ind=1,1
        [3,3]((25,29,46),(15,17,27),(21,24,38)); lvl=4; h,r-ind=1,1
      [3,3]((19,21,33),(17,19,30),(6,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(6,7,11),(25,29,46)); lvl=3; h,r-ind=1,1
      [5,3]((7,8,13),(9,10,16),(4,5,8),(15,17,27),(25,29,46)); lvl=3; h,r-ind=1,1
        [3,3]((25,29,46),(19,22,35),(15,17,27)); lvl=4; h,r-ind=1,1
        [4,3]((32,37,59),(28,32,51),(19,22,35),(15,17,27)); lvl=4; h,r-ind=1,1
          [3,3]((15,17,27),(28,32,51),(47,54,86)); lvl=5; h,r-ind=1,1
          [3,3]((32,37,59),(28,32,51),(47,54,86)); lvl=5; h,r-ind=1,1
          [3,3]((19,22,35),(32,37,59),(47,54,86)); lvl=5; h,r-ind=1,1
          [3,3]((19,22,35),(15,17,27),(47,54,86)); lvl=5; h,r-ind=1,1
        [3,3]((9,10,16),(28,32,51),(15,17,27)); lvl=4; h,r-ind=1,1
        [4,3]((13,15,24),(9,10,16),(32,37,59),(28,32,51)); lvl=4; h,r-ind=1,1
          [3,3]((9,10,16),(28,32,51),(41,47,75)); lvl=5; h,r-ind=1,1
          [3,3]((32,37,59),(28,32,51),(41,47,75)); lvl=5; h,r-ind=1,1
          [3,3]((13,15,24),(32,37,59),(41,47,75)); lvl=5; h,r-ind=1,1
          [3,3]((13,15,24),(9,10,16),(41,47,75)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,13),(13,15,24),(9,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(25,29,46),(19,22,35)); lvl=4; h,r-ind=1,1
        [3,3]((32,37,59),(4,5,8),(19,22,35)); lvl=4; h,r-ind=1,1
        [3,3]((13,15,24),(32,37,59),(4,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,13),(13,15,24),(4,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((9,11,18),(7,8,13),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((5,5,8),(7,8,13),(11,12,19)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((5,6,9),(6,7,11),(19,21,33),(2,2,3)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((6,7,11),(19,21,33),(8,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(19,21,33),(8,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,9),(2,2,3),(8,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,9),(6,7,11),(8,9,14)); lvl=3; h,r-ind=1,1
    [4,3]((5,5,8),(11,12,19),(19,21,33),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((13,14,22),(11,12,19),(19,21,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(13,14,22),(19,21,33)); lvl=3; h,r-ind=1,1
      [3,3]((5,5,8),(13,14,22),(11,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(5,5,8),(13,14,22)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(5,5,8),(2,2,3)); lvl=1; h,r-ind=1,1
  [6,3]((2,3,3),(3,5,7),(1,2,2),(4,6,9),(3,4,6),(4,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,6),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,5),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(2,3,3),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,4),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,7),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(4,6,9),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,7),(2,3,4),(4,6,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,2,3),(2,3,3),(4,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,8),(3,4,5),(4,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(5,6,8),(8,9,12),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((7,8,11),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(7,8,11),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,7),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(7,8,11),(8,9,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(1,0,0),(2,2,3),(8,9,12)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,12),(2,2,3),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(8,9,12),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(5,6,8),(8,9,12),(3,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,9),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(6,7,9),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(6,7,9),(8,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(3,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,5,7),(1,2,2)); lvl=1; h,r-ind=1,1
```

```
  [5,3]((1,0,0),(3,4,7),(5,5,8),(9,11,18),(5,7,12)); lvl=1; h,r-ind=1,1
    [4,3]((8,10,17),(8,9,15),(5,7,12),(7,9,15)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,12),(5,6,10),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,12),(18,23,39),(5,6,10)); lvl=3; h,r-ind=1,1
      [4,3]((8,10,17),(18,23,39),(8,9,15),(5,6,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((13,16,27),(5,6,10),(18,23,39)); lvl=4; h,r-ind=1,1
        [3,3]((8,10,17),(13,16,27),(18,23,39)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,15),(13,16,27),(5,6,10)); lvl=4; h,r-ind=1,1
        [3,3]((8,10,17),(8,9,15),(13,16,27)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,17),(5,7,12),(18,23,39)); lvl=3; h,r-ind=1,1
    [4,3]((8,9,15),(7,8,13),(9,11,18),(7,9,15)); lvl=2; h,r-ind=1,1
      [3,3]((21,25,41),(7,8,13),(9,11,18)); lvl=3; h,r-ind=1,1
      [4,3]((5,6,10),(7,9,15),(21,25,41),(9,11,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((14,17,28),(9,11,18),(7,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,10),(14,17,28),(7,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((21,25,41),(14,17,28),(9,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,10),(21,25,41),(14,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,10),(21,25,41),(7,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,10),(8,9,15),(7,8,13)); lvl=3; h,r-ind=1,1
    [4,3]((8,9,15),(3,3,5),(5,5,8),(7,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((10,11,18),(5,5,8),(3,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,15),(10,11,18),(3,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,13),(10,11,18),(5,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,15),(7,8,13),(10,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(3,3,5),(5,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,7),(8,10,17),(8,9,15),(3,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((8,9,15),(8,10,17),(11,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,7),(8,10,17),(11,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,5),(3,4,7),(11,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,5),(8,9,15),(11,13,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(3,4,7),(3,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,7),(8,10,17),(5,7,12)); lvl=2; h,r-ind=1,1
  [3,3]((6,9,16),(3,4,7),(5,7,12)); lvl=1; h,r-ind=1,1
  [3,3]((6,9,16),(1,0,0),(3,4,7)); lvl=1; h,r-ind=1,1
```

16.45 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,15,16)); lvl=0; h,r-ind=16,128
  [3,3]((1,1,1),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((6,15,16),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,7),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,8,8),(3,7,7),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((6,15,16),(3,8,8),(3,7,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((6,15,16),(3,7,7),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((6,15,16),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(6,15,16),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
```

16.46 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,7,16)); lvl=0; h,r-ind=16,256
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,11),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,5,11),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,11),(4,4,9),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,7,16),(4,4,9),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,5,11),(4,4,9)); lvl=1; h,r-ind=1,1
  [3,3]((7,7,16),(0,1,0),(4,4,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
```

16.47 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,8,16)); lvl=0; h,r-ind=16,32
  [3,3]((1,1,2),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(5,7,11),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,7,11),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(7,8,16),(5,7,11)); lvl=1; h,r-ind=3,3; optimized-h
```

```
  [3,3]((0,1,0),(7,8,16),(5,7,11)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,2),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

16.48 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,10,16)); lvl=0; h,r-ind=16,128
  [5,3]((5,7,10),(3,3,4),(1,1,1),(2,3,4),(2,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((3,3,4),(8,10,13),(5,6,8),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,8),(8,10,13),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(8,10,13),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(5,6,8),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,3,4),(6,7,9)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,5),(10,13,17),(8,10,13),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((8,10,13),(10,13,17),(11,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(10,13,17),(11,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(11,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(8,10,13),(11,14,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(3,4,5),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(2,3,3),(3,4,5)); lvl=2; h,r-ind=1,1
    [6,3]((4,5,7),(6,8,11),(9,12,16),(10,13,17),(8,10,13),(5,6,8)); lvl=2; h,r-ind=1,1
      [3,3]((9,12,16),(7,9,12),(6,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(7,9,12),(6,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(7,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,16),(7,9,12),(10,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,12),(10,13,17),(8,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,12),(5,6,8),(8,10,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,4),(4,5,7),(5,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,10),(4,5,7),(6,8,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(3,4,5),(9,12,16),(10,13,17)); lvl=2; h,r-ind=1,1
      [3,3]((12,16,21),(10,13,17),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(12,16,21),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,16),(12,16,21),(10,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(9,12,16),(12,16,21)); lvl=3; h,r-ind=1,1
    [4,3]((5,7,10),(6,8,11),(2,3,4),(9,12,16)); lvl=2; h,r-ind=1,1
      [3,3]((8,11,15),(6,8,11),(9,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(8,11,15),(9,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,10),(8,11,15),(6,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(5,7,10),(8,11,15)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,4),(2,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(5,8,11),(2,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [5,3]((4,6,9),(9,13,20),(5,8,11),(5,7,10),(2,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,4),(15,22,32),(19,28,41),(6,9,13)); lvl=2; h,r-ind=1,1
      [3,3]((21,31,45),(19,28,41),(15,22,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(21,31,45),(15,22,32)); lvl=3; h,r-ind=1,1
      [3,3]((21,31,45),(6,9,13),(19,28,41)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(21,31,45),(6,9,13)); lvl=3; h,r-ind=1,1
    [4,3]((4,6,9),(17,25,37),(19,28,41),(6,9,13)); lvl=2; h,r-ind=1,1
      [3,3]((23,34,50),(19,28,41),(17,25,37)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(23,34,50),(17,25,37)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,13),(23,34,50),(19,28,41)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(6,9,13),(23,34,50)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,11),(2,3,4),(6,9,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,9),(5,8,11),(6,9,13)); lvl=2; h,r-ind=1,1
    [6,3]((7,10,15),(11,16,24),(17,25,37),(9,13,19),(15,22,32),(19,28,41)); lvl=2; h,r-ind=1,1
      [3,3]((13,19,28),(9,13,19),(15,22,32)); lvl=3; h,r-ind=1,1
      [3,3]((13,19,28),(19,28,41),(15,22,32)); lvl=3; h,r-ind=1,1
      [3,3]((13,19,28),(17,25,37),(19,28,41)); lvl=3; h,r-ind=1,1
      [3,3]((11,16,24),(13,19,28),(17,25,37)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,15),(13,19,28),(9,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,15),(11,16,24),(13,19,28)); lvl=3; h,r-ind=1,1
    [3,3]((9,13,20),(7,10,15),(11,16,24)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,9),(9,13,20),(11,16,24),(17,25,37)); lvl=2; h,r-ind=1,1
      [3,3]((9,13,20),(15,22,33),(11,16,24)); lvl=3; h,r-ind=1,1
      [3,3]((17,25,37),(15,22,33),(11,16,24)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(9,13,20),(15,22,33)); lvl=3; h,r-ind=1,1
      [3,3]((17,25,37),(4,6,9),(15,22,33)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,4),(5,7,10),(9,13,19),(15,22,32)); lvl=2; h,r-ind=1,1
      [3,3]((11,16,23),(5,7,10),(9,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((15,22,32),(11,16,23),(9,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(15,22,32),(11,16,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(11,16,23),(5,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((7,10,15),(5,7,10),(9,13,19)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(4,6,9),(5,8,11)); lvl=1; h,r-ind=1,1
  [3,3]((7,10,16),(4,6,9),(9,13,20)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(7,10,16),(4,6,9)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((1,0,0),(3,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,6),(5,7,10),(1,0,0),(3,3,4)); lvl=1; h,r-ind=2,1
    [4,3]((2,2,3),(1,0,0),(4,5,7),(3,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((5,5,7),(1,0,0),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(5,5,7),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,7),(5,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(5,5,7),(1,0,0)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,6),(2,2,3),(4,5,7),(5,7,10)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,7),(2,2,3),(7,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(2,2,3),(7,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,10),(3,4,6),(7,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,10),(4,5,7),(7,9,13)); lvl=3; h,r-ind=1,1
  [3,3]((4,5,8),(3,4,6),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((7,10,16),(4,5,8),(3,4,6)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((7,10,16),(9,13,20),(3,4,6),(5,7,10)); lvl=1; h,r-ind=2,1
    [4,3]((3,4,6),(5,7,11),(7,10,15),(5,7,10)); lvl=2; h,r-ind=1,1
      [3,3]((7,10,15),(5,7,11),(10,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,11),(10,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,10),(3,4,6),(10,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,10),(7,10,15),(10,14,21)); lvl=3; h,r-ind=1,1
    [4,3]((7,10,16),(5,7,11),(9,13,20),(7,10,15)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,11),(7,10,15),(14,20,31)); lvl=3; h,r-ind=1,1
      [3,3]((9,13,20),(7,10,15),(14,20,31)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,16),(5,7,11),(14,20,31)); lvl=3; h,r-ind=1,1
      [3,3]((9,13,20),(7,10,16),(14,20,31)); lvl=3; h,r-ind=1,1
```

16.49 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,12,16)); lvl=0; h,r-ind=16,64
  [6,3]((4,6,7),(5,8,9),(4,7,8),(2,3,4),(7,12,15),(8,14,17)); lvl=1; h,r-ind=1,1
    [3,3]((8,14,17),(4,7,8),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,9),(4,7,8),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,7),(5,8,9),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((7,12,15),(8,14,17),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(7,12,15),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,7),(2,3,4),(3,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((4,7,9),(5,9,11),(7,12,15),(8,14,17)); lvl=1; h,r-ind=1,1
    [3,3]((12,21,26),(8,14,17),(5,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(12,21,26),(5,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((7,12,15),(12,21,26),(8,14,17)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(7,12,15),(12,21,26)); lvl=2; h,r-ind=1,1
  [4,3]((4,7,8),(1,2,2),(5,9,11),(8,14,17)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(5,9,11),(9,16,19)); lvl=2; h,r-ind=1,1
    [3,3]((8,14,17),(5,9,11),(9,16,19)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(1,2,2),(9,16,19)); lvl=2; h,r-ind=1,1
    [3,3]((8,14,17),(4,7,8),(9,16,19)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(5,9,11)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,7,9),(5,9,11)); lvl=1; h,r-ind=1,1
  [3,3]((7,12,16),(0,1,0),(4,7,9)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,3),(5,8,9),(4,7,8),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,8),(5,8,9),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(5,8,9),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(4,7,8),(6,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(4,6,7),(1,1,1),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,5),(1,1,1),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,5),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,4,5),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(1,0,0),(3,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((4,6,7),(1,1,1),(2,3,3),(5,8,9)); lvl=1; h,r-ind=1,1
    [3,3]((6,9,10),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,9),(6,9,10),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,7),(5,8,9),(6,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,7),(6,9,10),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((7,12,16),(4,7,9),(2,3,4),(7,12,15)); lvl=1; h,r-ind=1,1
    [3,3]((6,10,13),(7,12,15),(4,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((7,12,16),(6,10,13),(4,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((6,10,13),(2,3,4),(7,12,15)); lvl=2; h,r-ind=1,1
    [3,3]((7,12,16),(6,10,13),(2,3,4)); lvl=2; h,r-ind=1,1
```

16.50 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,14,16)); lvl=0; h,r-ind=16,128
  [4,3]((4,8,9),(6,11,12),(5,9,10),(5,10,11)); lvl=1; h,r-ind=1,1
    [3,3]((5,9,10),(10,19,21),(6,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,11),(10,19,21),(6,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,9),(5,9,10),(10,19,21)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,11),(4,8,9),(10,19,21)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(4,8,9),(5,10,11)); lvl=1; h,r-ind=1,1
  [3,3]((7,14,16),(0,1,0),(4,8,9)); lvl=1; h,r-ind=1,1
  [4,3]((7,14,16),(4,8,9),(4,7,8),(5,9,10)); lvl=1; h,r-ind=1,1
    [3,3]((4,8,9),(5,9,10),(8,15,17)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(5,9,10),(8,15,17)); lvl=2; h,r-ind=1,1
    [3,3]((7,14,16),(4,8,9),(8,15,17)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(7,14,16),(8,15,17)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,3),(1,2,2),(6,11,12),(5,10,11)); lvl=1; h,r-ind=1,1
    [3,3]((7,13,14),(5,10,11),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(7,13,14),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,12),(7,13,14),(5,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(6,11,12),(7,13,14)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(5,10,11)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,3),(1,1,1),(6,11,12),(5,9,10)); lvl=1; h,r-ind=1,1
    [3,3]((7,12,13),(5,9,10),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(7,12,13),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,12),(7,12,13),(5,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(6,11,12),(7,12,13)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(4,7,8),(1,1,1),(5,9,10)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,9),(4,7,8),(5,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,9),(1,1,1),(5,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(5,8,9),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(5,8,9),(4,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
```

16.51 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,9,16)); lvl=0; h,r-ind=16,32
  [4,3]((0,1,0),(4,5,8),(1,1,1),(5,5,8)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,8),(2,2,3),(5,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(4,5,8),(2,2,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((0,1,0),(2,3,4),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(2,2,3),(4,5,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(2,3,4),(2,2,3),(4,5,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,2,3),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,6),(2,2,3),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(4,5,6),(3,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((0,1,0),(1,2,2),(1,1,1),(4,5,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,3),(1,2,2),(4,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(1,1,1),(4,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(5,5,8)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((8,9,16),(4,4,7),(4,5,8),(5,5,8)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,8),(3,3,5),(5,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,12),(4,5,8),(3,3,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((6,7,12),(8,9,16),(3,3,5),(4,4,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,4,7),(3,3,5),(14,15,26)); lvl=3; h,r-ind=1,1
      [4,3]((7,8,14),(6,7,12),(3,3,5),(14,15,26)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((10,11,19),(3,3,5),(6,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,14),(10,11,19),(6,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,19),(14,15,26),(3,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,14),(10,11,19),(14,15,26)); lvl=4; h,r-ind=1,1
      [4,3]((8,9,16),(7,8,14),(4,4,7),(14,15,26)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((11,12,21),(7,8,14),(14,15,26)); lvl=4; h,r-ind=1,1
        [3,3]((11,12,21),(4,4,7),(14,15,26)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,16),(11,12,21),(4,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,16),(11,12,21),(7,8,14)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(4,4,7),(5,5,8)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(8,9,16),(4,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

16.52 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,15,16)); lvl=0; h,r-ind=16,32
  [3,3]((1,2,2),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((8,15,16),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(8,15,16),(1,1,1)); lvl=1; h,r-ind=1,1
```

16.53 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,9,16)); lvl=0; h,r-ind=16,256
  [3,3]((5,5,8),(4,4,7),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((9,9,16),(4,4,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,8),(1,1,1),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,5,8),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(5,5,8),(4,4,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((9,9,16),(0,1,0),(4,4,7)); lvl=1; h,r-ind=1,1
```

16.54 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,15,16)); lvl=0; h,r-ind=16,128
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((10,15,16),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((10,15,16),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(0,1,0),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,8,8),(2,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((10,15,16),(5,8,8),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((10,15,16),(2,3,3),(3,4,4)); lvl=1; h,r-ind=1,1
```

16.55 Resolved

```
[3,3]((1,0,0),(0,1,0),(12,15,16)); lvl=0; h,r-ind=16,64
  [3,3]((3,4,4),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((12,15,16),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(12,15,16),(1,1,1)); lvl=1; h,r-ind=1,1
```

16.56 Resolved

```
[3,3]((1,0,0),(0,1,0),(14,15,16)); lvl=0; h,r-ind=16,128
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((14,15,16),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,8,8),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((14,15,16),(7,8,8),(1,1,1)); lvl=1; h,r-ind=1,1
```

16.57 Resolved

```
[3,3]((1,0,0),(0,1,0),(15,15,16)); lvl=0; h,r-ind=16,256
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((15,15,16),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((15,15,16),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

16.58 Resolved

```
[3,3]((1,0,0),(1,2,0),(1,0,8)); lvl=0; h,r-ind=16,8
  [4,3]((1,0,4),(1,1,2),(1,1,0),(1,0,0)); lvl=1; h,r-ind=2,1
    [4,3]((1,0,2),(1,0,0),(1,1,1),(1,1,0)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(1,1,0),(3,2,2)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(1,0,1),(1,1,0),(3,2,2)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,1,1),(1,0,1),(3,2,2)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((2,1,1),(1,1,0),(3,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(2,1,1),(1,1,0)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(2,1,1),(1,0,1)); lvl=4; h,r-ind=1,1
      [4,3]((1,0,2),(1,0,1),(1,1,1),(3,2,2)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,1,2),(1,0,1),(3,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,1,2),(1,1,1),(3,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,2),(2,1,2),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,2),(2,1,2),(1,0,1)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,4),(1,0,2),(1,1,1),(1,1,2)); lvl=2; h,r-ind=1,1
      [4,3]((1,0,2),(1,0,3),(1,1,1),(3,2,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,1,4),(1,0,3),(3,2,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,1,4),(1,1,1),(3,2,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,2),(2,1,4),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,2),(2,1,4),(1,0,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,1,1),(3,2,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,4),(1,1,2),(1,0,3),(3,2,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,1,5),(3,2,6),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,4),(2,1,5),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,1,5),(1,0,3),(3,2,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,4),(2,1,5),(1,0,3)); lvl=4; h,r-ind=1,1
  [4,3]((1,1,4),(1,0,8),(1,0,4),(1,1,2)); lvl=1; h,r-ind=2,1
    [4,3]((1,1,3),(1,1,2),(1,0,6),(1,0,4)); lvl=2; h,r-ind=1,1
      [4,3]((3,2,10),(1,1,2),(1,0,5),(1,0,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,1,7),(1,0,5),(1,0,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(2,1,7),(1,0,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,2,10),(2,1,7),(1,0,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(3,2,10),(2,1,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,3),(3,2,10),(1,0,6),(1,0,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,0,5),(2,1,8),(1,0,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(2,1,8),(1,0,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,2,10),(1,0,5),(2,1,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(3,2,10),(2,1,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(3,2,10),(1,1,2)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,3),(1,1,4),(1,0,8),(1,0,6)); lvl=2; h,r-ind=1,1
      [4,3]((3,2,14),(1,0,7),(1,1,4),(1,0,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,1,11),(1,0,7),(1,0,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(2,1,11),(1,0,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,2,14),(2,1,11),(1,0,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(3,2,14),(2,1,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(3,2,14),(1,1,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,3),(3,2,14),(1,0,6),(1,0,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,1,10),(1,0,7),(1,0,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(2,1,10),(1,0,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,2,14),(2,1,10),(1,0,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(3,2,14),(2,1,10)); lvl=4; h,r-ind=1,1
  [3,3]((1,1,2),(1,2,0),(1,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,1,4),(1,1,2),(1,2,0)); lvl=1; h,r-ind=2,2; optimized-h
```

16.59 Resolved

```
[3,3]((1,0,0),(1,2,0),(1,4,8)); lvl=0; h,r-ind=16,16
  [3,3]((1,2,2),(1,0,0),(1,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,2),(1,2,0),(1,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,3,4),(1,2,2),(1,2,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,2),(1,2,4),(1,0,0)); lvl=1; h,r-ind=4,2; optimized-h
  [3,3]((1,4,8),(1,2,2),(1,2,4)); lvl=1; h,r-ind=4,2; optimized-h
  [3,3]((1,4,8),(1,3,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

16.60 Resolved

```
[3,3]((1,0,0),(1,2,0),(3,0,8)); lvl=0; h,r-ind=16,8
  [4,3]((2,0,3),(1,1,1),(1,0,0),(1,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(1,1,0),(3,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,1),(1,0,0),(1,1,0),(3,2,2)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,0,0),(2,1,1),(1,1,0)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,2),(2,1,1),(1,1,0)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,1),(3,2,2),(2,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,1),(1,0,0),(2,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,1),(1,1,1),(3,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,1),(2,0,3),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,0),(1,1,1),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,1,4),(1,2,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,0,3),(3,0,7),(1,1,1)); lvl=1; h,r-ind=5,5; optimized-h
  [4,3]((2,1,4),(3,0,8),(3,0,7),(1,1,1)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((1,1,1),(3,0,7),(2,0,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(5,2,10),(2,0,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,1,4),(3,0,8),(5,2,10),(2,0,5)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,0,5),(4,1,9),(3,0,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,4),(4,1,9),(3,0,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,2,10),(2,0,5),(4,1,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,4),(5,2,10),(4,1,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(2,1,4),(5,2,10)); lvl=2; h,r-ind=1,1
```

16.61 Resolved

```
[3,3]((1,0,0),(1,2,0),(3,2,8)); lvl=0; h,r-ind=16,16
  [4,3]((3,2,4),(1,1,1),(1,0,0),(1,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((3,2,2),(1,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((2,1,2),(3,2,4),(3,2,2),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,2,4),(3,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,2),(3,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,2),(3,2,4),(3,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,2),(2,1,2),(3,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,1,2),(3,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(3,2,2),(1,1,0)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,1,1),(1,2,0),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(1,1,1),(1,2,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,1,3),(3,2,4),(3,2,5),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((7,4,10),(2,1,2),(3,2,5),(3,2,4)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,2,5),(3,2,4),(5,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,2),(3,2,4),(5,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((7,4,10),(2,1,2),(5,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((7,4,10),(3,2,5),(5,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,1,3),(7,4,10),(3,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,1,3),(7,4,10),(1,0,0),(2,1,2)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,4,10),(4,2,5),(2,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(4,2,5),(2,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,3),(7,4,10),(4,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,1,3),(4,2,5)); lvl=3; h,r-ind=1,1
  [3,3]((2,1,4),(2,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((3,2,7),(2,1,4),(2,1,3),(3,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,1,4),(7,4,13),(2,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((3,2,6),(3,2,5),(7,4,13),(2,1,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,3,9),(3,2,5),(2,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((7,4,13),(5,3,9),(2,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,6),(7,4,13),(5,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,6),(5,3,9),(3,2,5)); lvl=3; h,r-ind=1,1
    [4,3]((3,2,7),(3,2,6),(2,1,4),(7,4,13)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,3,10),(7,4,13),(3,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,7),(5,3,10),(3,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,4),(3,2,7),(5,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,4),(5,3,10),(7,4,13)); lvl=3; h,r-ind=1,1
  [3,3]((3,2,8),(3,2,7),(2,1,4)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,2),(3,2,4),(3,2,5),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((3,2,5),(3,2,4),(4,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,2,4),(4,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,1,1),(4,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,2,5),(4,3,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,2),(3,2,7),(3,2,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,1,2),(3,2,8),(3,2,7)); lvl=1; h,r-ind=1,1
```

16.62 Resolved

```
[3,3]((1,0,0),(1,2,0),(5,0,8)); lvl=0; h,r-ind=16,8
  [3,3]((3,3,2),(1,2,0),(1,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,0,1),(3,3,2),(2,1,2),(1,1,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,1,2),(5,3,4),(3,3,2),(2,2,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,3,3),(2,2,1),(3,3,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,2),(4,3,3),(3,3,2)); lvl=3; h,r-ind=1,1
      [3,3]((5,3,4),(4,3,3),(2,2,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,2),(5,3,4),(4,3,3)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,0),(1,0,1),(5,3,4),(2,2,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,0,1),(3,2,2),(5,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,1),(3,2,2),(5,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,0),(2,2,1),(3,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,0),(1,0,1),(3,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,1),(2,1,2),(5,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,0,1),(1,1,0)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((1,0,1),(3,0,4),(2,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((2,0,3),(3,3,2),(3,1,4),(2,1,2)); lvl=1; h,r-ind=1,1
    [4,3]((2,1,2),(7,3,8),(3,3,2),(3,2,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,3,5),(7,3,8),(3,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,2),(5,3,5),(3,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,2),(3,3,2),(5,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,2),(5,3,5),(7,3,8)); lvl=3; h,r-ind=1,1
    [4,3]((2,0,3),(7,3,8),(3,1,4),(3,2,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,3,8),(3,2,3),(5,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,1,4),(3,2,3),(5,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,0,3),(7,3,8),(5,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,1,4),(2,0,3),(5,2,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,0,3),(2,1,2),(7,3,8)); lvl=2; h,r-ind=1,1
  [3,3]((3,0,4),(2,0,3),(2,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,0,3),(5,0,8),(3,1,4)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,2),(3,1,4),(1,2,0)); lvl=1; h,r-ind=2,2; optimized-h
```

16.63 Resolved

```
[3,3]((1,0,0),(1,2,0),(5,4,8)); lvl=0; h,r-ind=16,16
  [3,3]((1,1,1),(1,2,0),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,2,4),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((5,4,8),(3,2,4),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,1,1),(3,3,4),(1,2,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,4,8),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
```

16.64 Resolved

```
[3,3]((1,0,0),(1,2,0),(7,0,8)); lvl=0; h,r-ind=16,8
  [3,3]((1,0,1),(1,1,0),(2,2,1)); lvl=1; h,r-ind=1,1
  [3,3]((4,1,4),(1,0,1),(2,2,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,0),(4,1,4),(2,2,1)); lvl=1; h,r-ind=1,1
  [3,3]((7,0,8),(4,1,4),(1,0,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,0),(1,1,0),(2,2,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,1),(1,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
```

16.65 Resolved

```
[3,3]((1,0,0),(1,4,0),(1,0,4)); lvl=0; h,r-ind=16,4
  [4,3]((1,4,0),(1,2,0),(1,2,2),(3,4,4)); lvl=1; h,r-ind=4,4
    [4,3]((1,2,1),(2,3,2),(2,3,3),(3,4,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,2),(3,4,4),(4,6,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,4),(4,6,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,1),(2,3,2),(4,6,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(1,2,1),(4,6,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(1,2,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,1),(1,2,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,1),(1,2,0),(2,3,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,1),(1,2,0),(1,3,0)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,0),(1,3,1),(1,2,1),(1,3,0)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,1),(1,2,1),(2,6,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,0),(1,2,1),(2,6,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,0),(1,3,0),(2,6,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,0),(1,3,1),(2,6,1)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,4),(1,0,2),(1,2,2),(3,4,4)); lvl=1; h,r-ind=4,4
    [4,3]((1,1,2),(2,2,3),(3,4,4),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,4),(4,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,4),(4,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,3),(4,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(4,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(1,1,2),(2,3,3)); lvl=2; h,r-ind=1,1
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    [3,3]((1,1,2),(1,0,3),(1,0,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,4),(1,1,3),(1,1,2),(1,0,3)); lvl=2; h,r-ind=1,1
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      [3,3]((1,0,3),(1,1,2),(2,1,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,4),(1,1,3),(2,1,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,3),(1,0,4),(2,1,6)); lvl=3; h,r-ind=1,1
```

```
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    [4,3]((1,1,1),(2,2,3),(2,3,2),(3,4,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,4),(4,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,2),(3,4,4),(4,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,2),(4,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,2,3),(4,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,0),(1,1,1),(2,3,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,0),(1,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,1),(1,0,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,0),(1,1,1),(1,0,1)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,0),(1,1,1),(2,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,1),(1,1,1),(2,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,0,1),(2,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,0),(2,1,1)); lvl=3; h,r-ind=1,1
```

16.66 Resolved

```
[3,3]((1,0,0),(1,4,0),(3,0,4)); lvl=0; h,r-ind=16,4
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      [3,3]((4,3,2),(2,1,1),(1,1,0)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,1,1),(1,1,0)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,1),(1,0,0),(2,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,1),(4,3,2),(2,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,0),(2,2,1),(1,1,0),(4,3,2)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,1),(4,3,2),(3,3,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,0),(4,3,2),(3,3,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,0),(2,2,1),(3,3,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,0),(1,2,0),(3,3,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,1),(2,2,1),(4,3,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,3,2),(1,0,1),(2,2,1)); lvl=2; h,r-ind=1,1
    [3,3]((3,3,2),(1,2,0),(2,2,1)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,1),(3,3,2),(1,0,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,0,4),(1,1,1),(1,0,1)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,0),(1,2,0),(1,1,1),(3,3,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(3,3,2),(2,3,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,0),(3,3,2),(2,3,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(4,7,2),(2,3,1)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,0),(1,3,0),(4,7,2),(2,3,1)); lvl=2; h,r-ind=1,1
      [3,3]((3,6,1),(1,3,0),(4,7,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,1),(2,3,1),(4,7,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,0),(3,6,1),(2,3,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,0),(3,6,1),(1,3,0)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,0),(1,3,0),(1,1,1),(4,7,2)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,1),(1,3,0),(4,7,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,4,1),(4,7,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,0),(2,4,1),(1,3,0)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,4,0),(2,4,1)); lvl=3; h,r-ind=1,1
```

17 H-index = 17

17.0 Classification

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[3,3]((1,0,0),(0,1,0),(0,2,17))
  [3,3]((1,0,0),(0,1,0),(0,2,17))
  [3,3]((1,0,0),(0,1,0),(0,9,17))
  [3,3]((1,0,0),(0,1,0),(2,0,17))
  [3,3]((1,0,0),(0,1,0),(9,0,17))
  [3,3]((1,0,0),(2,17,0),(0,0,1))
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  [3,3]((1,0,0),(0,1,0),(0,3,17))
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  [3,3]((1,0,0),(3,17,0),(0,0,1))
  [3,3]((1,0,0),(6,17,0),(0,0,1))
```

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  [3,3]((1,0,0),(0,1,0),(1,7,17))
```

```
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[3,3]((1,0,0),(0,1,0),(2,12,17))
```

```
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  [3,3]((1,0,0),(0,1,0),(2,14,17))
  [3,3]((1,0,0),(0,1,0),(9,10,17))
  [3,3]((1,0,0),(0,1,0),(10,9,17))
  [3,3]((1,0,0),(0,1,0),(11,12,17))
  [3,3]((1,0,0),(0,1,0),(12,11,17))
  [3,3]((1,0,0),(0,1,0),(14,2,17))
[3,3]((1,0,0),(0,1,0),(2,16,17))
  [3,3]((1,0,0),(0,1,0),(2,16,17))
  [3,3]((1,0,0),(0,1,0),(9,9,17))
  [3,3]((1,0,0),(0,1,0),(16,2,17))
[3,3]((1,0,0),(0,1,0),(3,3,17))
  [3,3]((1,0,0),(0,1,0),(3,3,17))
  [3,3]((1,0,0),(0,1,0),(6,16,17))
  [3,3]((1,0,0),(0,1,0),(16,6,17))
[3,3]((1,0,0),(0,1,0),(3,4,17))
  [3,3]((1,0,0),(0,1,0),(3,4,17))
  [3,3]((1,0,0),(0,1,0),(4,3,17))
  [3,3]((1,0,0),(0,1,0),(6,10,17))
  [3,3]((1,0,0),(0,1,0),(10,6,17))
  [3,3]((1,0,0),(0,1,0),(12,13,17))
  [3,3]((1,0,0),(0,1,0),(13,12,17))
[3,3]((1,0,0),(0,1,0),(3,5,17))
  [3,3]((1,0,0),(0,1,0),(3,5,17))
  [3,3]((1,0,0),(0,1,0),(4,6,17))
  [3,3]((1,0,0),(0,1,0),(5,3,17))
  [3,3]((1,0,0),(0,1,0),(6,4,17))
  [3,3]((1,0,0),(0,1,0),(7,13,17))
  [3,3]((1,0,0),(0,1,0),(13,7,17))
[3,3]((1,0,0),(0,1,0),(3,6,17))
  [3,3]((1,0,0),(0,1,0),(3,6,17))
  [3,3]((1,0,0),(0,1,0),(3,8,17))
  [3,3]((1,0,0),(0,1,0),(6,3,17))
  [3,3]((1,0,0),(0,1,0),(6,15,17))
  [3,3]((1,0,0),(0,1,0),(8,3,17))
  [3,3]((1,0,0),(0,1,0),(15,6,17))
[3,3]((1,0,0),(0,1,0),(3,10,17))
  [3,3]((1,0,0),(0,1,0),(3,10,17))
  [3,3]((1,0,0),(0,1,0),(6,8,17))
  [3,3]((1,0,0),(0,1,0),(8,6,17))
  [3,3]((1,0,0),(0,1,0),(10,3,17))
  [3,3]((1,0,0),(0,1,0),(12,15,17))
  [3,3]((1,0,0),(0,1,0),(15,12,17))
[3,3]((1,0,0),(0,1,0),(3,12,17))
  [3,3]((1,0,0),(0,1,0),(3,12,17))
  [3,3]((1,0,0),(0,1,0),(4,10,17))
  [3,3]((1,0,0),(0,1,0),(6,13,17))
  [3,3]((1,0,0),(0,1,0),(10,4,17))
  [3,3]((1,0,0),(0,1,0),(12,3,17))
  [3,3]((1,0,0),(0,1,0),(13,6,17))
[3,3]((1,0,0),(0,1,0),(3,13,17))
  [3,3]((1,0,0),(0,1,0),(3,13,17))
  [3,3]((1,0,0),(0,1,0),(4,5,17))
  [3,3]((1,0,0),(0,1,0),(5,4,17))
  [3,3]((1,0,0),(0,1,0),(6,7,17))
  [3,3]((1,0,0),(0,1,0),(7,6,17))
  [3,3]((1,0,0),(0,1,0),(13,3,17))
[3,3]((1,0,0),(0,1,0),(3,15,17))
  [3,3]((1,0,0),(0,1,0),(3,15,17))
  [3,3]((1,0,0),(0,1,0),(6,12,17))
  [3,3]((1,0,0),(0,1,0),(8,10,17))
  [3,3]((1,0,0),(0,1,0),(10,8,17))
  [3,3]((1,0,0),(0,1,0),(12,6,17))
  [3,3]((1,0,0),(0,1,0),(15,3,17))
[3,3]((1,0,0),(0,1,0),(3,16,17))
  [3,3]((1,0,0),(0,1,0),(3,16,17))
  [3,3]((1,0,0),(0,1,0),(6,6,17))
  [3,3]((1,0,0),(0,1,0),(16,3,17))
[3,3]((1,0,0),(0,1,0),(4,4,17))
  [3,3]((1,0,0),(0,1,0),(4,4,17))
  [3,3]((1,0,0),(0,1,0),(13,16,17))
  [3,3]((1,0,0),(0,1,0),(16,13,17))
[3,3]((1,0,0),(0,1,0),(4,7,17))
  [3,3]((1,0,0),(0,1,0),(4,7,17))
```

```
  [3,3]((1,0,0),(0,1,0),(5,14,17))
  [3,3]((1,0,0),(0,1,0),(7,4,17))
  [3,3]((1,0,0),(0,1,0),(11,13,17))
  [3,3]((1,0,0),(0,1,0),(13,11,17))
  [3,3]((1,0,0),(0,1,0),(14,5,17))
[3,3]((1,0,0),(0,1,0),(4,8,17))
  [3,3]((1,0,0),(0,1,0),(4,8,17))
  [3,3]((1,0,0),(0,1,0),(8,4,17))
  [3,3]((1,0,0),(0,1,0),(8,15,17))
  [3,3]((1,0,0),(0,1,0),(13,15,17))
  [3,3]((1,0,0),(0,1,0),(15,8,17))
  [3,3]((1,0,0),(0,1,0),(15,13,17))
[3,3]((1,0,0),(0,1,0),(4,11,17))
  [3,3]((1,0,0),(0,1,0),(4,11,17))
  [3,3]((1,0,0),(0,1,0),(10,13,17))
  [3,3]((1,0,0),(0,1,0),(11,4,17))
  [3,3]((1,0,0),(0,1,0),(12,14,17))
  [3,3]((1,0,0),(0,1,0),(13,10,17))
  [3,3]((1,0,0),(0,1,0),(14,12,17))
[3,3]((1,0,0),(0,1,0),(4,12,17))
  [3,3]((1,0,0),(0,1,0),(4,12,17))
  [3,3]((1,0,0),(0,1,0),(10,11,17))
  [3,3]((1,0,0),(0,1,0),(11,10,17))
  [3,3]((1,0,0),(0,1,0),(12,4,17))
  [3,3]((1,0,0),(0,1,0),(13,14,17))
  [3,3]((1,0,0),(0,1,0),(14,13,17))
[3,3]((1,0,0),(0,1,0),(4,14,17))
  [3,3]((1,0,0),(0,1,0),(4,14,17))
  [3,3]((1,0,0),(0,1,0),(5,13,17))
  [3,3]((1,0,0),(0,1,0),(7,11,17))
  [3,3]((1,0,0),(0,1,0),(11,7,17))
  [3,3]((1,0,0),(0,1,0),(13,5,17))
  [3,3]((1,0,0),(0,1,0),(14,4,17))
[3,3]((1,0,0),(0,1,0),(4,16,17))
  [3,3]((1,0,0),(0,1,0),(4,16,17))
  [3,3]((1,0,0),(0,1,0),(13,13,17))
  [3,3]((1,0,0),(0,1,0),(16,4,17))
[3,3]((1,0,0),(0,1,0),(5,5,17))
  [3,3]((1,0,0),(0,1,0),(5,5,17))
  [3,3]((1,0,0),(0,1,0),(7,16,17))
  [3,3]((1,0,0),(0,1,0),(16,7,17))
[3,3]((1,0,0),(0,1,0),(5,8,17))
  [3,3]((1,0,0),(0,1,0),(5,8,17))
  [3,3]((1,0,0),(0,1,0),(7,12,17))
  [3,3]((1,0,0),(0,1,0),(8,5,17))
  [3,3]((1,0,0),(0,1,0),(10,15,17))
  [3,3]((1,0,0),(0,1,0),(12,7,17))
  [3,3]((1,0,0),(0,1,0),(15,10,17))
[3,3]((1,0,0),(0,1,0),(5,10,17))
  [3,3]((1,0,0),(0,1,0),(5,10,17))
  [3,3]((1,0,0),(0,1,0),(7,15,17))
  [3,3]((1,0,0),(0,1,0),(8,12,17))
  [3,3]((1,0,0),(0,1,0),(10,5,17))
  [3,3]((1,0,0),(0,1,0),(12,8,17))
  [3,3]((1,0,0),(0,1,0),(15,7,17))
[3,3]((1,0,0),(0,1,0),(5,11,17))
  [3,3]((1,0,0),(0,1,0),(5,11,17))
  [3,3]((1,0,0),(0,1,0),(7,8,17))
  [3,3]((1,0,0),(0,1,0),(8,7,17))
  [3,3]((1,0,0),(0,1,0),(11,5,17))
  [3,3]((1,0,0),(0,1,0),(14,15,17))
  [3,3]((1,0,0),(0,1,0),(15,14,17))
[3,3]((1,0,0),(0,1,0),(5,15,17))
  [3,3]((1,0,0),(0,1,0),(5,15,17))
  [3,3]((1,0,0),(0,1,0),(7,14,17))
  [3,3]((1,0,0),(0,1,0),(8,11,17))
  [3,3]((1,0,0),(0,1,0),(11,8,17))
  [3,3]((1,0,0),(0,1,0),(14,7,17))
  [3,3]((1,0,0),(0,1,0),(15,5,17))
[3,3]((1,0,0),(0,1,0),(5,16,17))
  [3,3]((1,0,0),(0,1,0),(5,16,17))
  [3,3]((1,0,0),(0,1,0),(7,7,17))
  [3,3]((1,0,0),(0,1,0),(16,5,17))
[3,3]((1,0,0),(0,1,0),(8,8,17))
  [3,3]((1,0,0),(0,1,0),(8,8,17))
  [3,3]((1,0,0),(0,1,0),(15,16,17))
  [3,3]((1,0,0),(0,1,0),(16,15,17))
[3,3]((1,0,0),(0,1,0),(8,14,17))
  [3,3]((1,0,0),(0,1,0),(8,14,17))
  [3,3]((1,0,0),(0,1,0),(11,14,17))
```

```
  [3,3]((1,0,0),(0,1,0),(11,15,17))
  [3,3]((1,0,0),(0,1,0),(14,8,17))
  [3,3]((1,0,0),(0,1,0),(14,11,17))
  [3,3]((1,0,0),(0,1,0),(15,11,17))
[3,3]((1,0,0),(0,1,0),(8,16,17))
  [3,3]((1,0,0),(0,1,0),(8,16,17))
  [3,3]((1,0,0),(0,1,0),(15,15,17))
  [3,3]((1,0,0),(0,1,0),(16,8,17))
[3,3]((1,0,0),(0,1,0),(10,10,17))
  [3,3]((1,0,0),(0,1,0),(10,10,17))
  [3,3]((1,0,0),(0,1,0),(12,16,17))
  [3,3]((1,0,0),(0,1,0),(16,12,17))
[3,3]((1,0,0),(0,1,0),(10,16,17))
  [3,3]((1,0,0),(0,1,0),(10,16,17))
  [3,3]((1,0,0),(0,1,0),(12,12,17))
  [3,3]((1,0,0),(0,1,0),(16,10,17))
[3,3]((1,0,0),(0,1,0),(11,11,17))
  [3,3]((1,0,0),(0,1,0),(11,11,17))
  [3,3]((1,0,0),(0,1,0),(14,16,17))
  [3,3]((1,0,0),(0,1,0),(16,14,17))
[3,3]((1,0,0),(0,1,0),(11,16,17))
  [3,3]((1,0,0),(0,1,0),(11,16,17))
  [3,3]((1,0,0),(0,1,0),(14,14,17))
  [3,3]((1,0,0),(0,1,0),(16,11,17))
[3,3]((1,0,0),(0,1,0),(16,16,17))
  [3,3]((1,0,0),(0,1,0),(16,16,17))
```

17.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,17)); lvl=0; h,r-ind=17,17
  [3,3]((1,0,0),(0,2,17),(0,1,0)); lvl=1; h,r-ind=17,17
    [3,3]((1,0,0),(0,1,8),(0,2,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,2,9),(0,1,8)); lvl=2; h,r-ind=7,7; optimized-h
    [3,3]((1,0,0),(0,1,0),(0,2,9)); lvl=2; h,r-ind=9,9; optimized-h
  [3,3]((1,0,0),(0,1,17),(0,2,17)); lvl=1; h,r-ind=17,17
    [3,3]((1,0,0),(0,1,17),(0,2,25)); lvl=2; h,r-ind=9,9; optimized-h
    [3,3]((1,0,0),(0,1,9),(0,2,25)); lvl=2; h,r-ind=7,7; optimized-h
    [3,3]((1,0,0),(0,1,9),(0,2,17)); lvl=2; h,r-ind=1,1
```

17.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,2,17)); lvl=0; h,r-ind=17,17
  [3,3]((1,0,0),(0,1,8),(0,2,17)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,2,9),(0,1,8)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,0,0),(0,1,0),(0,2,9)); lvl=1; h,r-ind=9,9; optimized-h
```

17.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,3,17)); lvl=0; h,r-ind=17,17
  [3,3]((1,0,0),(0,3,16),(0,1,3)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,0,0),(0,1,0),(0,1,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,3,17),(0,3,16)); lvl=1; h,r-ind=3,3; optimized-h
```

17.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,4,17)); lvl=0; h,r-ind=17,17
  [3,3]((1,0,0),(0,1,4),(0,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(0,2,5)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,4,17),(0,1,4)); lvl=1; h,r-ind=1,1
```

17.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,5,17)); lvl=0; h,r-ind=17,17
  [3,3]((1,0,0),(0,1,0),(0,1,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,1,3),(0,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,3),(0,4,13)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,4,13),(0,5,17)); lvl=1; h,r-ind=3,3; optimized-h
```

17.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,8,17)); lvl=0; h,r-ind=17,17
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,2),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,8,17),(0,1,2)); lvl=1; h,r-ind=1,1
```

17.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,10,17)); lvl=0; h,r-ind=17,17
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,2,3),(0,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,2,3),(0,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,3,5),(0,10,17)); lvl=1; h,r-ind=1,1
```

17.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,11,17)); lvl=0; h,r-ind=17,17
  [3,3]((1,0,0),(0,1,1),(0,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,2,3),(0,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,2,3),(0,11,17)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
```

17.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,16,17)); lvl=0; h,r-ind=17,17
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,1),(0,16,17)); lvl=1; h,r-ind=1,1
```

17.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,17)); lvl=0; h,r-ind=17,289
  [3,3]((2,2,17),(1,1,16),(1,0,0)); lvl=1; h,r-ind=15,15; optimized-h
  [3,3]((1,1,17),(1,1,16),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,17),(1,0,0)); lvl=1; h,r-ind=17,289
    [3,3]((2,2,9),(1,1,8),(0,1,0)); lvl=2; h,r-ind=7,7; optimized-h
    [3,3]((2,2,17),(1,1,8),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,9),(0,1,0)); lvl=2; h,r-ind=9,81; optimized-h
    [3,3]((1,0,0),(2,2,9),(1,1,8)); lvl=2; h,r-ind=7,7; optimized-h
    [3,3]((2,2,17),(1,0,0),(1,1,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,17),(1,1,16)); lvl=1; h,r-ind=15,15; optimized-h
  [3,3]((1,1,17),(0,1,0),(1,1,16)); lvl=1; h,r-ind=1,1
```

17.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,17)); lvl=0; h,r-ind=17,289
  [5,3]((1,1,8),(2,3,24),(1,2,15),(2,4,17),(2,2,9)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,15),(2,3,23),(2,3,24)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,8),(2,3,23),(2,3,24)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,15),(2,3,23),(2,3,18),(2,4,23)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,13),(1,2,12),(4,6,41),(2,3,18)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,12),(5,9,57),(4,6,39),(2,3,18)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
```

```
        [3,3]((3,5,32),(4,6,39),(2,3,19)); lvl=5; h,r-ind=1,1
        [3,3]((7,12,75),(3,5,32),(2,3,19)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,12),(2,3,18),(7,12,75),(2,3,19)); lvl=5; h,r-ind=1,3
          [3,3]((3,5,31),(2,3,18),(2,3,19)); lvl=6; h,r-ind=1,1
          [3,3]((7,12,75),(3,5,31),(2,3,19)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,12),(7,12,75),(3,5,31)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,12),(3,5,31),(2,3,18)); lvl=6; h,r-ind=1,1
        [4,3]((1,2,12),(7,12,75),(3,5,32),(5,9,57)); lvl=5; h,r-ind=1,3
          [3,3]((4,7,44),(3,5,32),(7,12,75)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,12),(4,7,44),(7,12,75)); lvl=6; h,r-ind=1,1
          [3,3]((4,7,44),(5,9,57),(3,5,32)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,12),(4,7,44),(5,9,57)); lvl=6; h,r-ind=1,1
      [4,3]((1,2,13),(2,3,20),(5,9,57),(4,6,39)); lvl=4; h,r-ind=1,1
        [4,3]((3,5,32),(2,3,20),(4,6,39),(6,10,65)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,8,52),(4,6,39),(2,3,20)); lvl=6; h,r-ind=1,1
          [3,3]((6,10,65),(5,8,52),(2,3,20)); lvl=6; h,r-ind=1,1
          [3,3]((3,5,32),(6,10,65),(5,8,52)); lvl=6; h,r-ind=1,1
          [3,3]((3,5,32),(5,8,52),(4,6,39)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,13),(3,5,32),(6,10,65)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,13),(3,5,32),(5,9,57)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,13),(2,3,20),(6,10,65)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,12),(1,2,13),(5,9,57)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,13),(2,3,20),(4,6,41)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,23),(1,2,12),(2,3,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,15),(1,2,13),(2,3,23),(4,6,41)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,13),(1,2,14),(4,6,43),(2,3,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,35),(4,6,43),(1,2,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,13),(3,5,35),(1,2,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,21),(3,5,35),(4,6,43)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,21),(1,2,13),(3,5,35)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,13),(4,6,41),(2,3,21)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,15),(1,2,14),(2,3,23),(4,6,43)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,14),(2,3,22),(4,6,43)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,51),(1,2,14),(2,3,22)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,15),(4,7,51),(2,3,23),(2,3,22)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,37),(2,3,23),(2,3,22)); lvl=6; h,r-ind=1,1
          [3,3]((4,7,51),(3,5,37),(2,3,22)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,15),(4,7,51),(3,5,37)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,15),(3,5,37),(2,3,23)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,15),(4,7,51),(1,2,14)); lvl=5; h,r-ind=1,1
[4,3]((1,1,8),(1,1,6),(2,3,23),(2,3,18)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,7),(1,1,6),(4,6,41),(2,3,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,7),(5,6,39),(2,3,20),(4,6,39)); lvl=4; h,r-ind=1,1
      [4,3]((6,8,53),(3,4,26),(4,6,39),(2,3,20)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,26),(5,7,46),(4,6,39)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,20),(5,7,46),(4,6,39)); lvl=6; h,r-ind=1,1
        [3,3]((6,8,53),(2,3,20),(5,7,46)); lvl=6; h,r-ind=1,1
        [3,3]((6,8,53),(3,4,26),(5,7,46)); lvl=6; h,r-ind=1,1
      [3,3]((1,1,7),(6,8,53),(2,3,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,7),(6,8,53),(3,4,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,7),(3,4,26),(5,6,39)); lvl=5; h,r-ind=1,1
    [4,3]((1,1,6),(5,6,39),(2,3,18),(4,6,39)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((2,3,19),(4,6,39),(3,4,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,19),(7,9,57),(3,4,26)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,1,6),(5,6,39),(7,9,57),(3,4,26)); lvl=5; h,r-ind=1,3
        [3,3]((5,6,39),(4,5,32),(3,4,26)); lvl=6; h,r-ind=1,1
        [3,3]((7,9,57),(4,5,32),(3,4,26)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,6),(7,9,57),(4,5,32)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,6),(5,6,39),(4,5,32)); lvl=6; h,r-ind=1,1
      [4,3]((1,1,6),(2,3,18),(2,3,19),(7,9,57)); lvl=5; h,r-ind=1,3
        [3,3]((2,3,18),(3,4,25),(2,3,19)); lvl=6; h,r-ind=1,1
        [3,3]((7,9,57),(3,4,25),(2,3,19)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,6),(7,9,57),(3,4,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,6),(2,3,18),(3,4,25)); lvl=6; h,r-ind=1,1
    [3,3]((1,1,7),(1,1,6),(5,6,39)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,7),(4,6,41),(2,3,20)); lvl=4; h,r-ind=1,1
  [4,3]((1,1,8),(1,1,7),(2,3,23),(4,6,41)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,7),(5,6,44),(2,3,21),(4,6,43)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,29),(6,8,57),(2,3,21),(4,6,43)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,50),(2,3,21),(6,8,57)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,29),(5,7,50),(6,8,57)); lvl=6; h,r-ind=1,1
        [3,3]((5,7,50),(4,6,43),(2,3,21)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,29),(5,7,50),(4,6,43)); lvl=6; h,r-ind=1,1
      [3,3]((1,1,7),(3,4,29),(6,8,57)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,7),(3,4,29),(5,6,44)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,7),(6,8,57),(2,3,21)); lvl=5; h,r-ind=1,1
    [4,3]((1,1,8),(5,6,44),(2,3,23),(4,6,43)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,4,29),(4,6,43),(2,3,22)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,29),(7,9,67),(2,3,22)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,1,8),(2,3,23),(7,9,67),(2,3,22)); lvl=5; h,r-ind=1,3
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            [3,3]((3,4,30),(2,3,22),(2,3,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,8),(3,4,30),(2,3,23)); lvl=6; h,r-ind=1,1
            [3,3]((7,9,67),(3,4,30),(2,3,22)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,8),(7,9,67),(3,4,30)); lvl=6; h,r-ind=1,1
          [4,3]((1,1,8),(5,6,44),(3,4,29),(7,9,67)); lvl=5; h,r-ind=1,3
            [3,3]((4,5,37),(3,4,29),(5,6,44)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,8),(4,5,37),(5,6,44)); lvl=6; h,r-ind=1,1
            [3,3]((7,9,67),(4,5,37),(3,4,29)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,8),(7,9,67),(4,5,37)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,7),(4,6,41),(2,3,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,8),(1,1,7),(5,6,44)); lvl=4; h,r-ind=1,1
    [5,3]((1,1,6),(1,1,5),(2,3,18),(2,4,23),(1,2,9)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,9),(2,4,21),(1,1,5),(4,5,27)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,1,5),(5,7,36),(2,3,16),(4,5,27)); lvl=4; h,r-ind=1,3
          [3,3]((3,4,21),(5,7,36),(2,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,27),(3,4,21),(2,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(4,5,27),(3,4,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(3,4,21),(5,7,36)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,10),(5,7,36),(2,3,16)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,2,10),(2,4,21),(2,3,16)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,5),(1,2,9),(1,2,10),(5,7,36)); lvl=4; h,r-ind=1,3
          [3,3]((1,2,9),(2,3,15),(1,2,10)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,36),(2,3,15),(1,2,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(5,7,36),(2,3,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(1,2,9),(2,3,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,6),(1,1,5),(4,5,27)); lvl=3; h,r-ind=1,1
      [5,3]((1,1,6),(4,6,35),(2,4,21),(1,2,11),(4,5,27)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,11),(2,3,17),(4,6,35)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,6),(2,3,17),(4,6,35)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,11),(2,3,17),(6,9,50),(5,8,44)); lvl=4; h,r-ind=1,1
          [3,3]((2,3,17),(6,9,50),(7,11,61)); lvl=5; h,r-ind=1,1
          [3,3]((5,8,44),(6,9,50),(7,11,61)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,11),(2,3,17),(7,11,61)); lvl=5; h,r-ind=1,1
          [3,3]((5,8,44),(1,2,11),(7,11,61)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,6),(2,3,17),(5,7,39),(6,9,50)); lvl=4; h,r-ind=1,1
          [3,3]((2,3,17),(6,9,50),(7,10,56)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,39),(6,9,50),(7,10,56)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(2,3,17),(7,10,56)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,39),(1,1,6),(7,10,56)); lvl=5; h,r-ind=1,1
        [5,3]((2,3,16),(3,5,27),(5,7,39),(6,9,50),(5,8,44)); lvl=4; h,r-ind=1,1
          [3,3]((4,6,33),(6,9,50),(5,8,44)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,33),(3,5,27),(5,8,44)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,16),(4,6,33),(3,5,27)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,33),(5,7,39),(6,9,50)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,16),(4,6,33),(5,7,39)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,6),(4,5,27),(2,3,16),(5,7,39)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((3,4,22),(2,3,16),(4,5,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(3,4,22),(4,5,27)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,39),(3,4,22),(2,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(5,7,39),(3,4,22)); lvl=5; h,r-ind=1,1
        [4,3]((3,5,27),(1,2,11),(5,8,44),(2,4,21)); lvl=4; h,r-ind=1,1
          [3,3]((4,7,38),(1,2,11),(5,8,44)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,27),(4,7,38),(5,8,44)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,27),(2,4,21),(4,7,38)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,21),(4,7,38),(1,2,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,16),(3,5,27),(2,4,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,6),(4,6,35),(2,3,18)); lvl=3; h,r-ind=1,1
      [4,3]((4,6,35),(2,3,18),(2,4,23),(1,2,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,29),(2,3,18),(2,4,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,11),(3,5,29),(2,4,23)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,35),(3,5,29),(2,3,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,11),(4,6,35),(3,5,29)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,5),(1,2,9),(2,3,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,17),(1,2,9),(2,3,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,9),(1,1,5),(2,3,13)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,4,17),(2,2,9)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,4),(2,2,9),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,5),(1,1,4),(1,0,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((0,1,0),(2,4,9),(2,2,5),(1,0,0)); lvl=2; h,r-ind=1,1
      [4,3]((2,4,9),(2,3,7),(2,3,6),(1,2,4)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,7),(2,3,6),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(2,3,6),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,9),(1,2,4),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,9),(2,3,7),(3,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,9),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,6),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((2,2,5),(2,3,7),(2,3,6),(1,1,2)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,7),(2,3,6),(3,4,9)); lvl=4; h,r-ind=1,1
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      [3,3]((1,1,2),(2,3,6),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,5),(1,1,2),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,5),(2,3,7),(3,4,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,5),(1,1,2)); lvl=3; h,r-ind=1,1
    [5,3]((1,2,3),(2,4,5),(2,2,3),(2,3,6),(1,1,2)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,11),(3,4,6),(2,2,3),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(2,2,3),(3,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,11),(4,5,8),(3,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(5,7,11),(4,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(4,5,8),(2,2,3)); lvl=5; h,r-ind=1,1
      [4,3]((6,9,14),(5,7,11),(2,3,5),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((7,10,16),(1,1,2),(5,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((6,9,14),(7,10,16),(5,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((7,10,16),(2,3,5),(1,1,2)); lvl=5; h,r-ind=1,1
        [3,3]((6,9,14),(7,10,16),(2,3,5)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,5),(2,3,6),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(6,9,14),(5,8,12),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,5),(6,9,14),(7,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(5,8,12),(7,11,17)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,6),(2,3,4),(2,2,3)); lvl=4; h,r-ind=1,1
      [6,3]((6,9,14),(5,7,11),(3,4,6),(3,5,7),(5,8,12),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(4,6,9),(3,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,11),(4,6,9),(3,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((6,9,14),(5,7,11),(4,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,7),(2,3,4),(4,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((5,8,12),(3,5,7),(4,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((6,9,14),(5,8,12),(4,6,9)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,7),(2,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(3,5,7),(5,8,12),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(4,7,10),(3,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(5,8,12),(4,7,10)); lvl=5; h,r-ind=1,1
    [4,3]((0,1,0),(1,0,0),(2,4,5),(2,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,4),(1,1,1),(2,3,3),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(3,4,5),(1,1,1)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,4),(2,3,3),(3,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=4; h,r-ind=1,1
      [4,3]((2,4,5),(2,3,4),(1,2,2),(2,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(2,3,4),(3,5,6)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,12),(1,1,4),(2,3,13),(2,2,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,17),(2,2,9),(1,1,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,12),(3,4,17),(1,1,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,13),(3,4,17),(2,2,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,12),(2,3,13),(3,4,17)); lvl=3; h,r-ind=1,1
  [5,3]((1,2,7),(2,4,9),(2,2,5),(2,3,12),(1,1,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(2,3,9),(1,1,4),(2,3,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,4),(4,5,17),(2,3,10),(2,3,11)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,14),(4,5,17),(2,3,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,11),(3,4,14),(2,3,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(2,3,11),(3,4,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(3,4,14),(4,5,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,4),(4,5,17)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,3),(4,5,17),(2,3,9),(2,3,10)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,9),(3,4,13),(2,3,10)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,17),(3,4,13),(2,3,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(2,3,9),(3,4,13)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,17),(1,1,3),(3,4,13)); lvl=5; h,r-ind=1,1
    [3,3]((2,3,12),(1,1,4),(2,3,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,7),(2,3,12),(2,3,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,7),(2,4,11),(2,3,9),(2,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(2,3,9),(2,3,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,7),(2,3,11),(1,2,6),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(2,3,10),(3,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(2,3,10),(3,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(1,2,6),(3,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(2,3,11),(3,5,17)); lvl=5; h,r-ind=1,1
```

```
      [3,3]((1,2,6),(2,4,11),(2,3,9)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,5),(2,4,11),(1,1,3),(2,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,11),(2,3,9),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,9),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(1,1,3),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,11),(3,5,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,7),(1,1,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(2,2,5),(1,1,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(1,2,5),(2,3,7)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,7),(2,4,9)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,3,12),(1,2,8),(2,4,17),(2,3,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,8),(2,4,17),(3,5,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,13),(2,4,17),(3,5,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,12),(1,2,8),(3,5,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,13),(2,3,12),(3,5,21)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,8),(2,4,17)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,7),(2,3,12),(1,2,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,7),(1,2,8)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,1,8),(2,2,9)); lvl=1; h,r-ind=7,7; optimized-h
[3,3]((1,2,17),(1,0,0),(1,1,8)); lvl=1; h,r-ind=1,1
[3,3]((1,2,17),(1,1,8),(2,3,24)); lvl=1; h,r-ind=1,1
[3,3]((1,2,17),(2,3,24),(1,2,15)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((0,1,0),(1,2,15),(2,4,17)); lvl=1; h,r-ind=13,13; optimized-h
[3,3]((1,2,17),(0,1,0),(1,2,15)); lvl=1; h,r-ind=2,2; optimized-h
```

17.12 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,17)); lvl=0; h,r-ind=17,289
  [4,3]((1,2,6),(1,2,10),(1,0,0),(2,3,16)); lvl=1; h,r-ind=2,2
    [3,3]((1,2,10),(2,3,16),(1,1,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,16),(1,1,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,8),(2,2,9),(1,2,10),(1,1,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,9),(3,4,18),(1,1,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,10),(1,2,9),(3,4,18),(1,1,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,9),(3,4,18),(2,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(3,4,18),(2,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,10),(1,1,5),(2,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,10),(1,2,9),(2,3,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(1,2,9),(3,4,18)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,8),(2,2,9),(3,4,18)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(2,2,9),(1,1,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,6),(1,1,3),(1,2,8),(2,2,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,8),(1,1,4),(2,2,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(1,2,7),(1,1,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,7),(1,2,6),(1,1,3),(1,1,4)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,6),(1,1,3),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(1,1,3),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(1,2,6),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(1,2,7),(2,3,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(2,2,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,2,11),(1,0,0),(2,3,16)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,17),(1,2,11),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((1,2,11),(2,5,27),(2,5,25),(1,2,10),(2,3,16)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,11),(6,13,68),(5,11,58),(2,4,21)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,58),(6,13,68),(7,15,79)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,21),(6,13,68),(7,15,79)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,11),(2,4,21),(7,15,79)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,11),(5,11,58),(7,15,79)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,11),(2,3,16),(2,4,21)); lvl=2; h,r-ind=1,1
    [4,3]((5,11,57),(1,2,10),(6,13,68),(2,4,21)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,21),(1,2,10),(7,15,78)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,57),(1,2,10),(7,15,78)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,68),(5,11,57),(7,15,78)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,68),(2,4,21),(7,15,78)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,16),(1,2,10),(2,4,21)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,25),(3,7,36),(5,11,57),(1,2,10)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,46),(3,7,36),(5,11,57)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,10),(4,9,46),(5,11,57)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,25),(4,9,46),(3,7,36)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,10),(2,5,25),(4,9,46)); lvl=3; h,r-ind=1,1
    [6,3]((3,7,36),(5,11,57),(2,5,26),(3,7,37),(6,13,68),(5,11,58)); lvl=2; h,r-ind=1,1
      [3,3]((6,13,68),(5,11,57),(4,9,47)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,36),(5,11,57),(4,9,47)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,36),(2,5,26),(4,9,47)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,68),(5,11,58),(4,9,47)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,37),(5,11,58),(4,9,47)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,26),(3,7,37),(4,9,47)); lvl=3; h,r-ind=1,1
```

```
  [4,3]((1,2,11),(2,5,27),(3,7,37),(5,11,58)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,27),(4,9,48),(3,7,37)); lvl=3; h,r-ind=1,1
    [3,3]((5,11,58),(4,9,48),(3,7,37)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,11),(2,5,27),(4,9,48)); lvl=3; h,r-ind=1,1
    [3,3]((5,11,58),(1,2,11),(4,9,48)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,25),(3,7,36),(2,5,26)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,27),(2,5,26),(3,7,37)); lvl=2; h,r-ind=1,1
[3,3]((1,3,17),(1,2,11),(2,5,27)); lvl=1; h,r-ind=1,1
[5,3]((2,6,17),(1,2,6),(1,3,14),(2,5,25),(1,2,10)); lvl=1; h,r-ind=1,1
  [4,3]((4,10,39),(1,2,8),(2,5,24),(1,2,10)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,24),(4,10,43),(1,2,9),(1,2,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,9),(2,5,22),(4,10,43)); lvl=4; h,r-ind=1,1
      [4,3]((4,10,45),(5,11,51),(1,2,9),(2,5,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,32),(1,2,9),(6,14,63)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,22),(1,2,9),(6,14,63)); lvl=5; h,r-ind=1,1
        [4,3]((4,10,45),(2,5,22),(3,7,32),(6,14,63)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,12,54),(3,7,32),(6,14,63)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,22),(5,12,54),(6,14,63)); lvl=6; h,r-ind=1,1
          [3,3]((4,10,45),(5,12,54),(3,7,32)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,22),(4,10,45),(5,12,54)); lvl=6; h,r-ind=1,1
        [3,3]((3,7,32),(5,11,51),(1,2,9)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,24),(4,10,45),(1,2,10),(5,11,51)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,2,10),(7,16,75),(3,7,32),(5,11,51)); lvl=5; h,r-ind=1,3
          [3,3]((4,9,42),(7,16,75),(3,7,32)); lvl=6; h,r-ind=1,1
          [3,3]((5,11,51),(4,9,42),(3,7,32)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,10),(5,11,51),(4,9,42)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,10),(4,9,42),(7,16,75)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,23),(7,16,75),(3,7,32)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,10),(2,5,24),(2,5,23),(7,16,75)); lvl=5; h,r-ind=1,3
          [3,3]((2,5,23),(3,7,33),(2,5,24)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,10),(3,7,33),(2,5,24)); lvl=6; h,r-ind=1,1
          [3,3]((7,16,75),(2,5,23),(3,7,33)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,10),(7,16,75),(3,7,33)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,23),(3,7,32),(4,10,45)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,10),(5,11,51),(1,2,9)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,20),(4,10,43),(1,2,8),(1,2,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,38),(1,2,9),(1,2,8)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,20),(2,5,21),(4,9,38),(1,2,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,29),(4,9,38),(2,5,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,20),(3,7,29),(2,5,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,8),(2,5,20),(3,7,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,8),(3,7,29),(4,9,38)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,21),(4,9,38),(1,2,9)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,43),(2,5,21),(1,2,9)); lvl=4; h,r-ind=1,1
    [3,3]((4,10,39),(2,5,20),(1,2,8)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,25),(2,5,24),(1,2,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,14),(2,5,25),(2,5,24)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,11),(4,10,39),(1,3,14),(2,5,24)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((1,3,14),(2,6,25),(4,10,43),(2,5,24)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,43),(2,5,22),(3,8,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,13),(2,5,22),(3,8,34)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,25),(1,3,13),(3,8,34)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,45),(1,3,13),(2,5,22)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,14),(2,5,24),(4,10,45),(1,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,13),(2,5,23),(4,10,45)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,50),(1,3,13),(2,5,23)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,14),(4,11,50),(2,5,24),(2,5,23)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,24),(3,8,37),(2,5,23)); lvl=6; h,r-ind=1,1
          [3,3]((4,11,50),(3,8,37),(2,5,23)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,14),(4,11,50),(3,8,37)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,14),(2,5,24),(3,8,37)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,14),(4,11,50),(1,3,13)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,11),(2,6,25),(2,5,20),(4,10,43)); lvl=3; h,r-ind=3,1
      [3,3]((3,8,34),(4,10,43),(2,5,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,12),(3,8,34),(2,5,21)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,11),(1,3,12),(2,5,20),(2,5,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,20),(2,5,21),(3,8,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,12),(2,5,21),(3,8,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,11),(2,5,20),(3,8,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,12),(1,3,11),(3,8,32)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,12),(2,6,25),(3,8,34)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,11),(4,10,39),(2,5,20)); lvl=3; h,r-ind=1,1
  [5,3]((1,2,6),(1,3,9),(1,3,11),(4,10,39),(1,2,8)); lvl=2; h,r-ind=1,1
    [5,3]((1,2,7),(1,2,6),(4,10,35),(1,3,9),(1,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,26),(1,3,9),(1,3,10)); lvl=4; h,r-ind=1,1
      [4,3]((4,10,33),(3,8,26),(2,5,17),(1,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,10),(3,8,26),(5,13,43)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,33),(3,8,26),(5,13,43)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,17),(4,10,33),(5,13,43)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,17),(1,3,10),(5,13,43)); lvl=5; h,r-ind=1,1
```

```
      [3,3]((4,10,35),(2,5,17),(1,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(4,10,35),(2,5,17)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,7),(3,7,23),(4,10,33),(2,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,23),(4,10,33),(5,12,40)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,17),(4,10,33),(5,12,40)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(3,7,23),(5,12,40)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,17),(1,2,7),(5,12,40)); lvl=5; h,r-ind=1,1
      [5,3]((1,2,6),(3,7,23),(4,10,33),(3,8,26),(1,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,33),(3,7,23),(2,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(3,7,23),(2,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,26),(4,10,33),(2,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,9),(3,8,26),(2,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(1,3,9),(2,5,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,7),(1,2,6),(3,7,23)); lvl=4; h,r-ind=1,1
    [4,3]((4,10,35),(1,3,11),(2,5,19),(1,3,10)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,18),(2,5,19),(1,3,11),(4,11,39)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,29),(1,3,11),(2,5,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,18),(3,8,29),(2,5,19)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,39),(3,8,29),(1,3,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,18),(4,11,39),(3,8,29)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,10),(1,3,11),(4,11,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,10),(2,5,18),(4,11,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,10),(4,10,35),(2,5,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,11),(4,10,39),(2,5,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,8),(4,10,39),(2,5,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,7),(4,10,35),(1,2,8),(2,5,19)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,8),(4,9,33),(2,5,18),(2,5,19)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,26),(4,9,33),(2,5,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,19),(3,7,26),(2,5,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,8),(2,5,19),(3,7,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,8),(3,7,26),(4,9,33)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,7),(1,2,8),(4,9,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(4,9,33),(2,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(4,10,35),(2,5,18)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,6),(2,6,17),(1,3,9)); lvl=2; h,r-ind=1,1
[4,3]((1,3,17),(2,5,27),(1,3,14),(2,5,25)); lvl=1; h,r-ind=1,1
  [4,3]((2,6,31),(1,3,14),(2,5,26),(2,5,25)); lvl=2; h,r-ind=1,1
    [3,3]((5,13,66),(2,5,26),(2,5,25)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,14),(5,13,66),(1,3,15),(2,5,25)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,3,15),(5,13,66),(3,8,40)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,25),(5,13,66),(3,8,40)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,14),(1,3,15),(3,8,40)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,25),(1,3,14),(3,8,40)); lvl=4; h,r-ind=1,1
    [3,3]((5,13,66),(1,3,15),(2,5,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,31),(1,3,15),(2,5,26)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,17),(2,6,31),(2,5,26),(2,5,27)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,16),(2,5,26),(5,13,69)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,27),(2,5,26),(5,13,69)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,27),(1,3,17),(1,3,16),(5,13,69)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,3,17),(3,8,43),(1,3,16)); lvl=4; h,r-ind=1,1
      [3,3]((5,13,69),(3,8,43),(1,3,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,27),(5,13,69),(3,8,43)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,27),(1,3,17),(3,8,43)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,16),(2,6,31),(2,5,26)); lvl=3; h,r-ind=1,1
[4,3]((0,1,0),(2,6,17),(1,2,6),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,8),(2,6,17),(1,2,6)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,3),(1,2,5),(1,3,8),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(1,3,8),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(1,3,8),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(1,2,5),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(1,1,3),(2,4,11)); lvl=3; h,r-ind=1,1
  [5,3]((2,6,9),(1,3,6),(1,0,0),(1,1,3),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,2,5),(2,3,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,6),(1,2,4),(1,2,5),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(1,2,5),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(3,5,11),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(3,5,11),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(2,3,7),(3,5,11)); lvl=4; h,r-ind=1,1
    [4,3]((4,7,13),(2,3,6),(3,6,11),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,17),(1,2,4),(3,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,13),(5,9,17),(3,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(5,9,17),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,13),(2,3,6),(5,9,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,5),(1,3,6),(3,6,11),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(3,6,11),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,9),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,6),(2,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,9),(3,6,11)); lvl=4; h,r-ind=1,1
    [5,3]((1,2,3),(1,3,5),(3,5,9),(4,7,13),(3,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,13),(3,6,11),(2,4,7)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((1,3,5),(3,6,11),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,5),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,9),(4,7,13),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(3,5,9),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,6,9),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,2,4),(1,2,5)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,6),(1,1,2),(1,1,3),(2,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,9),(1,1,3),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,6),(3,4,9),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(2,3,6),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(3,4,9),(1,1,3)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,9),(4,7,13),(2,3,6),(1,1,2)); lvl=3; h,r-ind=1,1
        [3,3]((4,7,13),(2,3,6),(5,8,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(2,3,6),(5,8,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,9),(4,7,13),(5,8,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(3,5,9),(5,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,0,0),(1,1,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(3,5,9),(1,1,2),(1,0,0)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,2),(3,5,9),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(3,5,9),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(1,2,3),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(1,1,2),(2,3,5)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(2,6,9),(1,0,0)); lvl=2; h,r-ind=9,27; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,6,9),(1,3,6)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,6),(1,2,5),(1,3,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,3,6),(1,3,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,3,8),(2,6,17)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,6,17),(1,3,14)); lvl=1; h,r-ind=11,11; optimized-h
  [3,3]((1,3,17),(0,1,0),(1,3,14)); lvl=1; h,r-ind=3,3; optimized-h
```

17.13 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,4,17)); lvl=0; h,r-ind=17,289
  [5,3]((2,5,20),(1,1,4),(1,4,13),(2,2,5),(2,8,17)); lvl=1; h,r-ind=9,3
    [4,3]((1,1,3),(2,2,5),(2,5,12),(2,5,11)); lvl=2; h,r-ind=3,1
      [3,3]((1,2,5),(2,5,11),(2,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(4,7,16),(2,5,11)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((1,1,3),(1,2,5),(2,2,5),(4,7,16)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,5),(2,3,7),(4,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(1,2,5),(2,3,7)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,3),(4,6,15),(2,2,5),(2,3,7)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,10),(4,6,15),(2,3,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,5),(3,4,10),(2,3,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(2,2,5),(3,4,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(3,4,10),(4,6,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(4,6,15),(1,2,5)); lvl=4; h,r-ind=1,1
    [4,3]((2,8,17),(1,4,9),(2,5,12),(2,5,11)); lvl=2; h,r-ind=3,1
      [4,3]((2,8,17),(4,13,28),(1,3,7),(1,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,7),(2,7,15),(4,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,31),(1,3,7),(2,7,15)); lvl=4; h,r-ind=1,1
        [4,3]((2,8,17),(4,14,31),(1,4,9),(2,7,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,4,9),(4,14,31),(3,11,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,15),(4,14,31),(3,11,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,17),(1,4,9),(3,11,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,15),(2,8,17),(3,11,24)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,31),(1,4,9),(1,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(4,13,28),(1,3,7)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((2,5,11),(2,5,12),(1,3,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,15),(2,8,21),(1,4,9),(2,5,12)); lvl=2; h,r-ind=9,3
      [4,3]((1,3,8),(1,3,7),(1,4,9),(1,4,10)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,7),(1,4,9),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(1,4,9),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(1,3,7),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(1,3,8),(2,7,17)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,8),(4,13,36),(2,8,21),(1,4,10)); lvl=3; h,r-ind=1,1
        [4,3]((1,4,10),(2,8,21),(2,7,19),(4,14,37)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,8,21),(3,11,29),(2,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,37),(3,11,29),(2,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,10),(4,14,37),(3,11,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,10),(2,8,21),(3,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(2,7,19),(4,14,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(4,13,36),(2,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(1,4,10),(4,14,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,15),(1,3,8),(4,13,36)); lvl=3; h,r-ind=3,3; optimized-h
      [4,3]((1,3,8),(2,5,12),(4,10,27),(1,3,7)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,7),(2,5,13),(2,5,12),(4,11,28)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,8,20),(2,5,12),(2,5,13)); lvl=5; h,r-ind=1,1
```

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          [3,3]((4,11,28),(3,8,20),(2,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(4,11,28),(3,8,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(3,8,20),(2,5,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(1,3,7),(4,11,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(2,5,13),(4,11,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(2,5,13),(4,10,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,15),(1,3,8),(4,10,27)); lvl=3; h,r-ind=3,3; optimized-h
    [3,3]((2,5,15),(1,1,3),(2,5,12)); lvl=2; h,r-ind=9,3; optimized-h
    [5,3]((2,5,15),(2,5,17),(1,3,11),(1,4,13),(2,8,21)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,10),(1,3,11),(2,5,17)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,16),(2,6,19),(1,3,10),(2,5,17)); lvl=3; h,r-ind=1,1
        [3,3]((2,6,19),(3,8,26),(1,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,17),(3,8,26),(1,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,16),(2,6,19),(3,8,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,17),(2,5,16),(3,8,26)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,15),(2,5,16),(1,3,9),(2,6,19)); lvl=3; h,r-ind=1,1
        [3,3]((3,8,25),(1,3,9),(2,6,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,16),(3,8,25),(2,6,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,15),(2,5,16),(3,8,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,15),(3,8,25),(1,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,10),(1,3,11),(1,4,13)); lvl=3; h,r-ind=1,1
      [4,3]((2,8,23),(2,6,19),(1,3,10),(1,4,13)); lvl=3; h,r-ind=1,1
        [4,3]((2,6,19),(1,3,10),(3,10,31),(5,17,53)); lvl=4; h,r-ind=1,1
          [3,3]((4,13,41),(5,17,53),(1,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,19),(4,13,41),(1,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((4,13,41),(3,10,31),(5,17,53)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,19),(4,13,41),(3,10,31)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,12),(2,7,21),(3,10,31),(5,17,53)); lvl=4; h,r-ind=1,1
          [3,3]((4,14,43),(2,7,21),(3,10,31)); lvl=5; h,r-ind=1,1
          [3,3]((5,17,53),(4,14,43),(3,10,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,12),(5,17,53),(4,14,43)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,12),(4,14,43),(2,7,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,23),(1,4,12),(2,7,21)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,12),(1,4,13),(1,3,10),(5,17,53)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,7,22),(1,3,10),(1,4,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,12),(2,7,22),(1,4,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,22),(5,17,53),(1,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,12),(2,7,22),(5,17,53)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,21),(2,6,19),(3,10,31)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,11),(1,3,9),(2,8,23),(2,6,19)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,9),(4,14,41),(2,6,19),(2,7,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,14,41),(2,7,21),(3,10,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,19),(2,7,21),(3,10,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,9),(2,6,19),(3,10,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,9),(4,14,41),(3,10,30)); lvl=5; h,r-ind=1,1
        [4,3]((2,8,23),(1,4,11),(4,14,41),(2,7,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,11,32),(1,4,11),(4,14,41)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,32),(2,7,21),(4,14,41)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,23),(3,11,32),(2,7,21)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,23),(3,11,32),(1,4,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,11),(1,3,9),(4,14,41)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,11),(2,8,21),(1,3,9),(4,13,36)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,9),(2,7,19),(4,13,36)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(4,14,39),(2,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(1,4,11),(4,14,39)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,11),(4,14,39),(2,7,19),(2,8,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,14,39),(3,11,30),(2,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,21),(3,11,30),(2,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,11),(2,8,21),(3,11,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,11),(4,14,39),(3,11,30)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,15),(1,3,9),(4,13,36)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,8),(2,5,17),(1,3,11)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,2,8),(2,5,20),(1,3,11)); lvl=2; h,r-ind=1,1
    [5,3]((1,2,8),(2,5,15),(2,5,17),(1,1,4),(1,1,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,7),(1,2,6),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(1,1,4),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(1,2,7),(1,1,4)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,15),(2,5,16),(1,2,7),(1,2,6)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,22),(1,2,7),(2,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,15),(3,7,22),(2,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,5,15),(3,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(3,7,22),(1,2,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,17),(2,5,16),(1,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(2,5,17),(1,2,7)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,2,5),(2,8,17)); lvl=1; h,r-ind=1,1
    [3,3]((0,1,0),(2,8,17),(1,4,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,11),(2,5,10),(2,8,17),(1,4,8)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((1,3,6),(4,13,28),(2,8,17),(1,4,8)); lvl=3; h,r-ind=1,1
        [4,3]((1,4,8),(4,14,29),(2,7,15),(2,8,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,11,23),(4,14,29),(2,7,15)); lvl=5; h,r-ind=1,1
```

```
        [3,3]((2,8,17),(3,11,23),(2,7,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(2,8,17),(3,11,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(3,11,23),(4,14,29)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,6),(4,14,29),(2,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,3,6),(4,14,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,15),(4,13,28)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,11),(1,3,6),(4,13,28)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((2,5,11),(2,5,10),(1,3,6)); lvl=3; h,r-ind=1,1
[3,3]((1,4,5),(0,1,0),(1,4,8)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,4,5),(2,5,10),(1,4,8)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
[5,3]((2,8,9),(1,4,5),(2,2,3),(1,1,2),(2,5,10)); lvl=2; h,r-ind=3,1; alert-h-inc
  [3,3]((1,3,5),(1,2,4),(2,5,10)); lvl=3; h,r-ind=1,1
  [5,3]((1,3,5),(4,10,15),(3,8,12),(1,2,4),(3,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(3,8,12),(4,10,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,8),(3,7,11),(4,10,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,8),(1,2,4),(3,7,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,8),(1,2,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,8),(3,8,12)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,5),(1,3,5),(1,3,4),(3,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(1,3,5),(3,8,12)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,9),(1,3,4),(3,8,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(2,6,9),(1,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(2,6,9),(1,3,5)); lvl=4; h,r-ind=1,1
  [3,3]((2,8,9),(1,4,5),(1,3,4)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,3),(2,5,7),(4,10,15),(3,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,7),(4,10,15),(5,12,18)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,11),(4,10,15),(5,12,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(5,12,18)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,11),(1,2,3),(5,12,18)); lvl=4; h,r-ind=1,1
  [4,3]((2,2,3),(1,2,3),(2,5,6),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(5,11,15),(2,5,7)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,3),(5,11,15),(2,5,7)); lvl=4; h,r-ind=1,1
    [4,3]((4,7,9),(2,2,3),(1,2,3),(5,11,15)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((2,3,4),(7,13,18),(1,2,3),(2,2,3)); lvl=5; h,r-ind=1,3
        [3,3]((7,13,18),(3,5,7),(1,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((2,2,3),(3,5,7),(1,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,4),(2,2,3),(3,5,7)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,4),(7,13,18),(3,5,7)); lvl=6; h,r-ind=1,1
      [4,3]((3,6,8),(7,13,18),(5,11,15),(1,2,3)); lvl=5; h,r-ind=1,3
        [3,3]((4,8,11),(7,13,18),(1,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((5,11,15),(4,8,11),(1,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((3,6,8),(5,11,15),(4,8,11)); lvl=6; h,r-ind=1,1
        [3,3]((3,6,8),(4,8,11),(7,13,18)); lvl=6; h,r-ind=1,1
      [3,3]((3,6,8),(2,3,4),(7,13,18)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((3,6,8),(4,7,9),(2,3,4)); lvl=5; h,r-ind=1,1
    [3,3]((4,7,9),(2,5,6),(5,11,15)); lvl=4; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,5,7),(1,3,4),(4,10,15),(3,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((5,13,19),(3,8,12),(1,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,7),(5,13,19),(1,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((4,10,15),(5,13,19),(3,8,12)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,7),(4,10,15),(5,13,19)); lvl=4; h,r-ind=1,1
  [4,3]((2,8,9),(2,5,6),(2,5,7),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((5,14,18),(2,5,7),(2,5,6)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,13,15),(5,14,18),(2,5,6)); lvl=4; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((5,14,18),(1,3,4),(2,5,7)); lvl=4; h,r-ind=1,1
    [4,3]((2,8,9),(4,13,15),(5,14,18),(1,3,4)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,3,4),(7,22,27),(3,9,11),(5,14,18)); lvl=5; h,r-ind=1,3
        [3,3]((4,12,15),(3,9,11),(7,22,27)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(4,12,15),(7,22,27)); lvl=6; h,r-ind=1,1
        [3,3]((5,14,18),(4,12,15),(3,9,11)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(5,14,18),(4,12,15)); lvl=6; h,r-ind=1,1
      [3,3]((2,7,8),(7,22,27),(3,9,11)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((4,13,15),(2,7,8),(3,9,11)); lvl=5; h,r-ind=1,1
      [4,3]((2,8,9),(1,3,4),(2,7,8),(7,22,27)); lvl=5; h,r-ind=1,3
        [3,3]((1,3,4),(3,10,12),(7,22,27)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,8),(3,10,12),(7,22,27)); lvl=6; h,r-ind=1,1
        [3,3]((2,8,9),(2,7,8),(3,10,12)); lvl=6; h,r-ind=1,1
        [3,3]((2,8,9),(1,3,4),(3,10,12)); lvl=6; h,r-ind=1,1
  [4,3]((1,2,3),(1,1,2),(1,2,4),(3,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(1,2,4),(1,1,2)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,7),(1,1,2)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(3,7,11),(2,4,7)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,11),(2,4,7),(1,2,4)); lvl=4; h,r-ind=1,1
  [3,3]((2,2,3),(1,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
[4,3]((2,2,5),(2,5,11),(1,1,2),(2,5,10)); lvl=2; h,r-ind=3,1; alert-h-inc
  [3,3]((2,5,11),(1,2,4),(2,5,10)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,11),(4,7,16),(1,2,4)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
  [4,3]((2,2,5),(1,1,2),(4,7,16),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,13),(1,2,4),(1,1,2)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,7),(2,2,5),(4,6,13),(1,1,2)); lvl=4; h,r-ind=1,2; alert-r-inc
```

```
          [3,3]((1,1,2),(2,2,5),(3,4,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,7),(2,2,5),(3,4,9)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,13),(1,1,2),(3,4,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,7),(4,6,13),(3,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,7),(4,6,13),(1,2,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(4,7,16),(1,2,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,5),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,9),(1,4,5),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,8,9),(2,2,3),(0,1,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((1,4,4),(0,1,0),(2,8,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,5),(2,5,6),(1,4,4),(2,8,9)); lvl=3; h,r-ind=3,1
        [4,3]((1,3,3),(1,4,4),(2,8,9),(4,13,15)); lvl=4; h,r-ind=1,1
          [4,3]((2,7,8),(1,4,4),(2,8,9),(4,14,15)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((1,4,4),(2,8,9),(3,11,12)); lvl=6; h,r-ind=1,1
            [3,3]((2,7,8),(2,8,9),(3,11,12)); lvl=6; h,r-ind=1,1
            [3,3]((4,14,15),(1,4,4),(3,11,12)); lvl=6; h,r-ind=1,1
            [3,3]((2,7,8),(4,14,15),(3,11,12)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,3),(2,7,8),(4,14,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(2,7,8),(4,13,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(1,4,4),(4,14,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,6),(1,3,3),(4,13,15)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
        [3,3]((2,5,6),(2,5,5),(1,3,3)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,5),(2,2,3),(2,5,6),(1,1,1)); lvl=3; h,r-ind=3,1
        [4,3]((1,2,2),(1,1,1),(2,2,3),(4,7,9)); lvl=4; h,r-ind=1,1
          [4,3]((4,6,7),(2,3,4),(2,2,3),(1,1,1)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=6; h,r-ind=1,1
            [3,3]((4,6,7),(2,3,4),(3,4,5)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,1),(4,6,7),(3,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,2),(4,6,7),(1,1,1)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(4,6,7),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(2,3,4),(4,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(2,5,6),(4,7,9)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
        [3,3]((2,5,5),(1,2,2),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(1,4,4),(0,1,0)); lvl=3; h,r-ind=3,3; optimized-h
      [3,3]((2,5,5),(1,1,1),(0,1,0)); lvl=3; h,r-ind=3,3; optimized-h
      [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,13),(2,8,17)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((1,4,17),(0,1,0),(1,4,13)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,0,0),(1,1,4),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,4,17),(2,5,20),(1,4,13)); lvl=1; h,r-ind=12,12; optimized-h
  [3,3]((1,4,17),(2,5,20),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(1,4,17),(1,1,4)); lvl=1; h,r-ind=1,1
```

17.14 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,5,17)); lvl=0; h,r-ind=17,289
  [3,3]((1,2,4),(1,2,6),(1,0,0)); lvl=1; h,r-ind=4,2; optimized-h
  [4,3]((0,1,0),(2,10,17),(1,2,4),(1,0,0)); lvl=1; h,r-ind=1,1
    [5,3]((1,4,6),(1,3,4),(1,1,2),(1,4,7),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(1,1,2),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(1,3,5),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,4,7),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,1,2),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,6),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,13),(1,4,6),(1,5,8),(1,4,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,6),(1,4,7),(2,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(1,4,7),(2,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,13),(1,4,6),(2,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(2,9,13),(2,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(2,10,17),(1,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,8),(2,10,17)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(2,9,13),(2,9,9),(1,5,8)); lvl=2; h,r-ind=1,1
      [4,3]((2,9,11),(1,5,6),(1,5,7),(2,9,13)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,6),(1,5,7),(4,19,25)); lvl=4; h,r-ind=1,1
        [4,3]((2,9,12),(2,9,13),(1,5,7),(4,19,25)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,19),(2,9,13),(1,5,7)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,25),(3,14,19),(1,5,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,12),(4,19,25),(3,14,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,12),(3,14,19),(2,9,13)); lvl=5; h,r-ind=1,1
        [4,3]((2,9,11),(2,9,12),(1,5,6),(4,19,25)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,18),(4,19,25),(2,9,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,11),(3,14,18),(2,9,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(2,9,11),(3,14,18)); lvl=5; h,r-ind=1,1
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          [3,3]((1,5,6),(3,14,18),(4,19,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(1,5,7),(2,9,13)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,9),(1,5,5),(2,9,11),(1,5,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,5),(1,5,6),(4,19,21)); lvl=4; h,r-ind=1,1
        [4,3]((2,9,10),(2,9,11),(1,5,6),(4,19,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,11),(1,5,6),(3,14,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,21),(1,5,6),(3,14,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,10),(2,9,11),(3,14,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,21),(2,9,10),(3,14,16)); lvl=5; h,r-ind=1,1
        [4,3]((2,9,9),(2,9,10),(1,5,5),(4,19,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,15),(4,19,21),(2,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,9),(3,14,15),(2,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(2,9,9),(3,14,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(3,14,15),(4,19,21)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,6),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(0,1,0),(1,5,7)); lvl=3; h,r-ind=1,1
    [5,3]((2,9,13),(1,4,6),(1,3,4),(1,4,4),(2,9,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,5),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,13),(1,4,5),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,13),(2,9,11),(1,4,5)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,9,9),(2,9,11),(1,4,5)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,3,4),(1,4,5),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,9),(1,4,5),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(1,4,4),(1,0,0),(1,1,2)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((1,2,3),(1,1,2),(1,2,2),(1,0,0)); lvl=3; h,r-ind=1,1
        [4,3]((1,1,2),(3,4,6),(1,0,0),(1,1,1)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,2,3),(1,1,1),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(1,0,0),(2,2,3)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,3),(1,2,2),(3,4,6),(1,1,1)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,4),(1,2,2),(1,1,1)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,6),(2,3,4),(1,1,1)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(3,4,6),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(2,3,4),(1,2,2)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(1,1,2),(3,4,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(1,2,3),(1,4,4),(1,2,2)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,3),(3,8,10),(1,3,3),(1,2,2)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,6),(3,8,10),(1,3,3)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(2,5,6),(1,3,3)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(1,2,2),(2,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(2,5,6),(3,8,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(1,2,3),(3,8,10)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,4),(1,3,4),(3,8,10),(1,3,3)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(3,8,10),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(1,3,3),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(1,3,4),(2,6,7)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(1,0,0)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
[3,3]((2,4,13),(1,2,6),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((1,3,10),(2,4,13),(1,0,0)); lvl=1; h,r-ind=1,1
[3,3]((1,5,17),(1,3,10),(1,0,0)); lvl=1; h,r-ind=1,1
[5,3]((1,5,12),(2,10,17),(1,2,4),(1,2,6),(2,7,21)); lvl=1; h,r-ind=3,1
  [4,3]((2,8,17),(1,4,8),(1,5,9),(1,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,8),(2,9,18),(1,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,10),(2,9,18),(1,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,17),(1,4,8),(2,9,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,10),(2,8,17),(2,9,18)); lvl=3; h,r-ind=1,1
  [6,3]((1,5,12),(1,4,11),(2,7,16),(2,8,17),(2,7,18),(1,5,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,12),(1,5,11),(2,8,19),(1,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,21),(1,5,11),(2,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,21),(1,4,10),(2,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(2,9,21),(1,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(2,9,21),(1,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,11),(1,5,12),(1,4,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,17),(2,7,18),(2,8,19),(1,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,19),(3,11,27),(1,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,18),(3,11,27),(1,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,17),(2,8,19),(3,11,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,18),(2,7,17),(3,11,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,11),(2,7,18),(1,4,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,10),(1,5,11),(2,8,19),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,20),(1,5,11),(2,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,20),(1,4,9),(2,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(2,9,20),(1,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(2,9,20),(1,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,17),(1,5,10),(1,4,9)); lvl=3; h,r-ind=1,1
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      [3,3]((2,7,16),(2,8,17),(1,4,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,16),(2,7,17),(2,8,19),(1,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,17),(3,11,26),(2,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(3,11,26),(2,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,16),(1,4,9),(3,11,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,16),(2,7,17),(3,11,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,11),(2,7,18),(1,3,9)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,4,11),(2,7,21),(1,3,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,8),(2,7,14),(1,4,7),(1,5,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,14),(1,4,7),(2,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,9),(1,4,7),(2,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(2,7,14),(2,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,9),(2,8,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(2,10,17),(1,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,7,14),(1,4,7)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((2,7,16),(2,8,17),(1,4,8),(2,7,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,17),(1,4,8),(4,15,32)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,14),(2,7,15),(1,4,8),(4,15,32)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,15),(3,11,23),(4,15,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(3,11,23),(4,15,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,14),(2,7,15),(3,11,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(2,7,14),(3,11,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,16),(2,7,15),(4,15,32)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,7,16),(2,8,17),(4,15,32)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,2,4),(2,7,16),(2,7,14),(1,2,5)); lvl=2; h,r-ind=3,1
      [3,3]((1,3,7),(2,7,16),(2,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,3,7),(2,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,14),(1,3,6),(2,7,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,4),(1,2,5),(1,3,6),(1,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,6),(1,3,7),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(1,3,7),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(1,3,6),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(1,2,4),(2,5,11)); lvl=4; h,r-ind=1,1
    [5,3]((2,7,16),(2,7,18),(1,3,9),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,8),(2,7,18),(2,7,17)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,16),(1,3,7),(1,3,8),(2,7,17)); lvl=3; h,r-ind=1,1
        [3,3]((3,10,24),(1,3,8),(1,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,16),(3,10,24),(1,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,17),(2,7,16),(3,10,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,17),(3,10,24),(1,3,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(1,2,5),(1,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,3,8),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,9),(1,3,8),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,9),(1,3,8),(2,7,18)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,12),(2,10,17)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,5,17),(0,1,0),(1,5,12)); lvl=1; h,r-ind=5,5; optimized-h
  [5,3]((1,4,13),(1,3,10),(2,4,13),(1,2,6),(2,7,21)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,16),(2,6,19),(4,13,42),(1,3,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,9,29),(2,6,19),(4,13,42)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,29),(1,3,10),(4,13,42)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,16),(3,9,29),(1,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,16),(3,9,29),(2,6,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,13),(2,5,16),(1,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,13),(4,13,42),(1,3,10)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,16),(2,6,19),(1,2,6),(1,3,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,9),(2,6,19),(3,8,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,16),(2,6,19),(3,8,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(2,5,16),(3,8,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(1,3,9),(3,8,25)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,13),(2,5,16),(1,2,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,13),(2,6,19),(4,13,42),(1,3,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,32),(4,13,42),(2,6,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,9),(3,10,32),(2,6,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,13),(1,3,9),(3,10,32)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,13),(3,10,32),(4,13,42)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,13),(2,7,21),(1,3,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,17),(1,5,12),(1,4,13),(2,7,21)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,12),(1,4,11),(2,7,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,12),(1,4,13),(2,7,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,17),(1,4,12),(1,4,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,10,29),(1,4,12),(1,5,12),(1,4,11)); lvl=2; h,r-ind=1,1
      [3,3]((4,17,48),(1,4,12),(1,4,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,12),(4,17,48),(2,10,27),(1,4,11)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,4,11),(5,22,60),(4,17,48),(2,9,25)); lvl=4; h,r-ind=1,3
          [3,3]((5,22,60),(3,13,36),(2,9,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,17,48),(3,13,36),(2,9,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,11),(4,17,48),(3,13,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,11),(5,22,60),(3,13,36)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,13),(5,22,60),(2,9,25)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,5,13),(2,10,27),(2,9,25)); lvl=4; h,r-ind=1,1
```

```
        [4,3]((1,4,11),(1,5,12),(1,5,13),(5,22,60)); lvl=4; h,r-ind=1,3
          [3,3]((2,9,24),(1,5,13),(1,5,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,11),(2,9,24),(1,5,12)); lvl=5; h,r-ind=1,1
          [3,3]((5,22,60),(2,9,24),(1,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,11),(5,22,60),(2,9,24)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,14),(4,17,48),(2,10,27),(1,4,12)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,12),(2,9,25),(4,17,48)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,12),(4,18,51),(2,9,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,12),(1,5,14),(4,18,51)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,14),(4,18,51),(2,9,25),(2,10,27)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,18,51),(3,14,39),(2,9,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,27),(3,14,39),(2,9,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(2,10,27),(3,14,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(4,18,51),(3,14,39)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,29),(1,5,14),(1,4,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,17),(2,10,29),(1,4,12)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,5,17),(1,4,13),(1,3,10)); lvl=1; h,r-ind=1,1
```

17.15 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,6,17)); lvl=0; h,r-ind=17,289
  [5,3]((1,5,10),(2,11,22),(2,11,30),(1,5,14),(1,3,8)); lvl=1; h,r-ind=2,1
    [4,3]((1,5,12),(2,11,26),(1,5,11),(2,11,22)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,11),(6,31,70),(2,11,22),(2,11,24)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [3,3]((2,11,23),(2,11,24),(4,21,46)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((4,21,47),(2,11,24),(4,21,46)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,5,11),(4,21,47),(6,31,70),(4,21,46)); lvl=4; h,r-ind=1,2
          [3,3]((5,26,58),(6,31,70),(4,21,47)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,46),(5,26,58),(4,21,47)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(4,21,46),(5,26,58)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(5,26,58),(6,31,70)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,11),(2,11,23),(2,11,22),(4,21,46)); lvl=4; h,r-ind=1,2
          [3,3]((3,16,34),(2,11,22),(2,11,23)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,46),(3,16,34),(2,11,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(4,21,46),(3,16,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(3,16,34),(2,11,22)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,12),(6,31,70),(2,11,26),(2,11,24)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [3,3]((4,21,48),(2,11,24),(2,11,25)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,5,12),(4,21,48),(2,11,26),(2,11,25)); lvl=4; h,r-ind=1,2
          [3,3]((2,11,26),(3,16,37),(2,11,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,48),(3,16,37),(2,11,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(4,21,48),(3,16,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(2,11,26),(3,16,37)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,47),(4,21,48),(2,11,24)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,5,12),(6,31,70),(4,21,47),(4,21,48)); lvl=4; h,r-ind=1,2
          [3,3]((4,21,47),(5,26,59),(6,31,70)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(5,26,59),(6,31,70)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,48),(4,21,47),(5,26,59)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(4,21,48),(5,26,59)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,12),(1,5,11),(6,31,70)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,10),(1,5,11),(2,11,22)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,10),(1,4,9),(1,5,11),(2,9,21)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,9),(2,9,21),(2,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,11),(2,9,21),(2,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,10),(1,5,11),(2,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,10),(1,4,9),(2,9,20)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,30),(1,5,12),(2,11,26),(1,5,13)); lvl=2; h,r-ind=1,1
      [4,3]((2,11,28),(6,31,78),(1,5,12),(2,11,26)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((4,21,52),(1,5,12),(4,21,53),(6,31,78)); lvl=4; h,r-ind=1,2
          [3,3]((5,26,65),(6,31,78),(1,5,12)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,52),(5,26,65),(1,5,12)); lvl=5; h,r-ind=1,1
          [3,3]((5,26,65),(4,21,53),(6,31,78)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,52),(5,26,65),(4,21,53)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,28),(4,21,52),(4,21,53)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((2,11,28),(4,21,52),(2,11,27)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((4,21,52),(2,11,27),(2,11,26),(1,5,12)); lvl=4; h,r-ind=1,2
          [3,3]((3,16,39),(2,11,27),(2,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(3,16,39),(2,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,52),(3,16,39),(2,11,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(4,21,52),(3,16,39)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,13),(6,31,78),(1,5,12)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,30),(2,11,28),(1,5,13),(6,31,78)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,5,13),(4,21,54),(4,21,53),(6,31,78)); lvl=4; h,r-ind=1,2
          [3,3]((4,21,54),(5,26,66),(4,21,53)); lvl=5; h,r-ind=1,1
          [3,3]((6,31,78),(5,26,66),(4,21,53)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,13),(6,31,78),(5,26,66)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,13),(4,21,54),(5,26,66)); lvl=5; h,r-ind=1,1
```

```
      [3,3]((2,11,28),(4,21,54),(4,21,53)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((2,11,29),(2,11,28),(4,21,54)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,5,13),(2,11,30),(2,11,29),(4,21,54)); lvl=4; h,r-ind=1,2
        [3,3]((3,16,42),(2,11,29),(2,11,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,13),(3,16,42),(2,11,30)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,54),(3,16,42),(2,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,13),(4,21,54),(3,16,42)); lvl=5; h,r-ind=1,1
  [3,3]((2,11,30),(1,5,13),(1,5,14)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,11),(1,5,13),(2,9,23),(1,5,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,24),(2,9,23),(1,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,14),(2,9,24),(1,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,11),(1,5,14),(2,9,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,11),(2,9,24),(2,9,23)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,12),(1,5,11),(2,9,22),(2,9,21)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,22),(2,9,21),(3,14,33)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,11),(2,9,21),(3,14,33)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,12),(1,5,11),(3,14,33)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,12),(2,9,22),(3,14,33)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,12),(1,5,13),(2,9,22),(2,9,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,22),(2,9,23),(3,14,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,13),(2,9,23),(3,14,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,12),(2,9,22),(3,14,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,13),(1,5,12),(3,14,35)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,11),(1,3,8),(2,9,22),(2,9,23)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,23),(4,17,44),(1,4,10),(2,9,22)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,13,33),(1,4,10),(4,17,44)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,23),(3,13,33),(4,17,44)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,22),(3,13,33),(1,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,23),(2,9,22),(3,13,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,11),(2,9,23),(4,17,44)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,11),(4,17,44),(1,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,11),(1,3,8),(1,4,10)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,9),(1,3,8),(2,9,22),(2,9,21)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,21),(1,4,10),(4,17,40),(2,9,22)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,13,31),(4,17,40),(1,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,22),(3,13,31),(1,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,21),(2,9,22),(3,13,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,21),(3,13,31),(4,17,40)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,9),(1,4,10),(4,17,40)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,21),(1,4,9),(4,17,40)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(1,3,8),(1,4,10)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(1,5,14),(1,3,8)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((1,0,0),(2,10,15),(1,5,10),(1,3,8)); lvl=1; h,r-ind=5,5
  [6,3]((1,4,7),(2,10,17),(3,9,17),(1,3,6),(1,5,10),(1,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,17),(1,5,9),(2,9,16)); lvl=3; h,r-ind=1,1
    [4,3]((3,12,23),(3,12,22),(1,5,9),(2,9,16)); lvl=3; h,r-ind=1,1
      [4,3]((2,8,15),(5,22,40),(2,9,16),(3,12,22)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,17,31),(5,22,40),(2,9,16)); lvl=5; h,r-ind=1,1
        [3,3]((3,12,22),(4,17,31),(2,9,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,15),(3,12,22),(4,17,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,15),(4,17,31),(5,22,40)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,9),(5,22,40),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,15),(1,5,9),(5,22,40)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,23),(2,8,15),(1,5,9)); lvl=4; h,r-ind=1,1
    [4,3]((3,12,23),(1,5,10),(1,4,8),(1,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,10),(2,9,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(1,5,10),(2,9,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,23),(1,4,8),(2,9,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(3,12,23),(2,9,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,10),(1,4,9),(1,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,4,9),(1,4,8)); lvl=3; h,r-ind=1,1
    [4,3]((3,12,23),(3,11,21),(1,3,6),(1,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,21),(1,3,6),(4,15,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,3,6),(4,15,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,23),(3,11,21),(4,15,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(3,12,23),(4,15,29)); lvl=4; h,r-ind=1,1
    [4,3]((3,12,23),(3,12,22),(5,18,34),(3,11,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,15),(4,15,28),(3,12,22)); lvl=4; h,r-ind=1,1
      [4,3]((2,8,15),(12,45,85),(7,26,49),(4,15,28)); lvl=4; h,r-ind=1,1
        [3,3]((9,34,64),(12,45,85),(7,26,49)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,28),(9,34,64),(7,26,49)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,15),(9,34,64),(12,45,85)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,28),(2,8,15),(9,34,64)); lvl=5; h,r-ind=1,1
      [3,3]((7,26,49),(5,18,34),(4,15,28)); lvl=4; h,r-ind=1,1
      [4,3]((12,45,85),(7,26,49),(3,11,21),(5,18,34)); lvl=4; h,r-ind=1,1
        [3,3]((10,37,70),(5,18,34),(7,26,49)); lvl=5; h,r-ind=1,1
        [3,3]((12,45,85),(10,37,70),(7,26,49)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,21),(12,45,85),(10,37,70)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,21),(10,37,70),(5,18,34)); lvl=5; h,r-ind=1,1
      [4,3]((3,12,23),(2,8,15),(12,45,85),(3,11,21)); lvl=4; h,r-ind=1,3; alert-r-inc
```

```
        [3,3]((2,8,15),(12,45,85),(5,19,36)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,21),(12,45,85),(5,19,36)); lvl=5; h,r-ind=1,1
        [3,3]((3,12,23),(3,11,21),(5,19,36)); lvl=5; h,r-ind=1,1
        [3,3]((3,12,23),(2,8,15),(5,19,36)); lvl=5; h,r-ind=1,1
    [4,3]((3,10,19),(5,18,34),(3,11,21),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,21),(5,18,34),(6,21,40)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,19),(5,18,34),(6,21,40)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(3,10,19),(6,21,40)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(3,11,21),(6,21,40)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,7),(3,12,22),(2,10,17),(2,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,23),(3,12,22),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,17),(3,13,23),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,10,17),(3,13,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,13,23),(3,12,22)); lvl=4; h,r-ind=1,1
    [5,3]((1,4,7),(3,12,22),(3,9,17),(3,10,19),(5,18,34)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,13),(5,18,34),(4,15,28)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,22),(2,7,13),(4,15,28)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,22),(1,4,7),(2,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,13),(3,10,19),(5,18,34)); lvl=4; h,r-ind=1,1
      [3,3]((3,9,17),(2,7,13),(3,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,9,17),(2,7,13)); lvl=4; h,r-ind=1,1
    [3,3]((3,9,17),(3,10,19),(1,3,6)); lvl=3; h,r-ind=1,1
  [5,3]((1,3,8),(1,3,6),(2,5,10),(2,5,12),(1,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,12),(1,3,8),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(1,3,8),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,4,9),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(2,5,12),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,10),(2,5,11),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,10),(1,3,7)); lvl=3; h,r-ind=1,1
  [5,3]((1,2,4),(2,3,7),(1,2,5),(2,5,10),(2,5,12)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,12),(3,7,16),(5,11,25),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,21),(3,7,16),(5,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(4,9,21),(5,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(4,9,21),(3,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,12),(4,9,21)); lvl=4; h,r-ind=1,1
    [4,3]((2,4,9),(6,13,29),(5,11,25),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,29),(7,15,34),(5,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(7,15,34),(5,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,9),(6,13,29),(7,15,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,9),(7,15,34)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,7),(2,4,9),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,7),(2,4,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(5,11,24),(2,4,9),(6,13,29)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,24),(6,13,29),(7,15,33)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,9),(6,13,29),(7,15,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(5,11,24),(7,15,33)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,9),(1,2,4),(7,15,33)); lvl=4; h,r-ind=1,1
    [6,3]((5,11,24),(3,7,15),(6,13,29),(2,5,11),(3,7,16),(5,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,20),(3,7,16),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,15),(4,9,20),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,24),(3,7,15),(4,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,20),(5,11,25),(3,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,20),(6,13,29),(5,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,24),(4,9,20),(6,13,29)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,10),(3,7,15),(2,5,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(5,11,24),(2,5,10),(3,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,19),(3,7,15),(5,11,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(4,9,19),(5,11,24)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,19),(2,5,10),(3,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(4,9,19),(2,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,12),(2,5,11),(3,7,16)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,8),(1,2,5),(2,5,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,4),(2,3,7)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(2,3,7),(1,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,8),(1,0,0),(1,2,5)); lvl=2; h,r-ind=1,1
  [7,3]((1,5,8),(1,4,7),(3,9,17),(1,4,6),(3,8,15),(1,3,5),(4,11,21)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,21),(2,6,11),(3,9,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(2,6,11),(3,9,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,7),(2,7,12),(4,16,27),(2,6,11)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,11,19),(4,16,27),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,11),(3,11,19),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,6,11),(3,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,11,19),(4,16,27)); lvl=4; h,r-ind=1,1
    [5,3]((1,5,8),(1,4,6),(2,7,12),(4,14,23),(4,16,27)); lvl=3; h,r-ind=1,1
      [4,3]((3,12,20),(4,15,25),(5,20,33),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((5,20,33),(4,15,25),(7,27,45)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,12),(4,15,25),(7,27,45)); lvl=5; h,r-ind=1,1
        [3,3]((3,12,20),(5,20,33),(7,27,45)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,12),(3,12,20),(7,27,45)); lvl=5; h,r-ind=1,1
      [3,3]((4,16,27),(3,12,20),(2,7,12)); lvl=4; h,r-ind=1,1
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      [3,3]((1,5,8),(4,16,27),(3,12,20)); lvl=4; h,r-ind=1,1
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      [4,3]((3,11,18),(5,19,31),(4,15,25),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((5,19,31),(4,15,25),(7,26,43)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,12),(4,15,25),(7,26,43)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,18),(2,7,12),(7,26,43)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,18),(5,19,31),(7,26,43)); lvl=5; h,r-ind=1,1
      [3,3]((4,14,23),(3,11,18),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(4,14,23),(3,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(3,11,18),(5,19,31)); lvl=4; h,r-ind=1,1
      [4,3]((2,8,13),(5,19,31),(4,15,25),(5,20,33)); lvl=4; h,r-ind=1,1
        [3,3]((6,23,38),(4,15,25),(5,19,31)); lvl=5; h,r-ind=1,1
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        [3,3]((2,8,13),(5,20,33),(6,23,38)); lvl=5; h,r-ind=1,1
        [3,3]((5,20,33),(6,23,38),(4,15,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(2,8,13),(5,20,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,5,8),(2,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,8,13),(5,19,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(1,4,7),(4,16,27)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,21),(2,6,11),(3,8,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,6,11),(3,8,15)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,12),(4,14,23),(1,3,5),(2,6,11)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,10,17),(1,3,5),(4,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,12),(3,10,17),(4,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,11),(3,10,17),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,12),(2,6,11),(3,10,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(4,14,23),(1,3,5)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,6),(2,6,9),(1,3,5)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(1,2,4),(3,8,15),(2,6,9),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(1,3,5),(3,8,15)); lvl=3; h,r-ind=1,1
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    [4,3]((2,4,7),(2,5,9),(3,7,12),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(3,7,12),(4,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(3,7,12),(4,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,7),(4,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(4,9,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,7),(1,2,4),(1,1,2)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(2,4,7),(1,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,3),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(1,1,2),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(2,3,5),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(2,3,5),(1,2,3)); lvl=4; h,r-ind=1,1
    [4,3]((6,15,25),(2,5,9),(3,7,12),(1,3,5)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,7,12),(2,5,9),(4,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,9),(4,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((6,15,25),(3,7,12),(4,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(6,15,25),(4,10,17)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,8),(6,15,25),(1,3,5),(2,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,13),(1,3,5),(6,15,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(3,8,13),(6,15,25)); lvl=4; h,r-ind=1,1
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    [3,3]((1,2,3),(2,5,8),(2,6,9)); lvl=3; h,r-ind=1,1
    [5,3]((2,4,7),(1,2,3),(2,5,8),(6,15,25),(3,7,12)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,12),(7,16,27),(5,12,20),(9,21,35)); lvl=4; h,r-ind=1,1
        [3,3]((9,21,35),(7,16,27),(12,28,47)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,12),(7,16,27),(12,28,47)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,20),(3,7,12),(12,28,47)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,20),(9,21,35),(12,28,47)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,8),(6,14,23),(5,12,20),(9,21,35)); lvl=4; h,r-ind=1,1
        [3,3]((9,21,35),(6,14,23),(11,26,43)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,8),(6,14,23),(11,26,43)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,20),(2,5,8),(11,26,43)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,20),(9,21,35),(11,26,43)); lvl=5; h,r-ind=1,1
      [3,3]((6,15,25),(2,5,8),(5,12,20)); lvl=4; h,r-ind=1,1
      [5,3]((2,4,7),(1,2,3),(6,14,23),(7,16,27),(9,21,35)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,15),(6,14,23),(9,21,35)); lvl=5; h,r-ind=1,1
        [3,3]((7,16,27),(4,9,15),(9,21,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,7),(7,16,27),(4,9,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(4,9,15),(6,14,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,7),(1,2,3),(4,9,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,8),(1,2,3),(6,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,12),(6,15,25),(5,12,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(3,7,12),(7,16,27)); lvl=4; h,r-ind=1,1
  [4,3]((3,9,17),(1,3,6),(2,5,10),(4,11,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,10),(5,14,27)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,21),(2,5,10),(5,14,27)); lvl=3; h,r-ind=1,1
    [3,3]((3,9,17),(1,3,6),(5,14,27)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,21),(3,9,17),(5,14,27)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,4),(3,8,15),(2,5,10),(4,11,21)); lvl=2; h,r-ind=1,1
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      [3,3]((3,8,15),(4,11,21),(5,13,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(4,11,21),(5,13,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,10),(5,13,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,8,15),(5,13,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(1,4,7),(2,10,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,15),(1,5,8),(1,4,6)); lvl=2; h,r-ind=1,1
  [5,3]((2,10,15),(2,12,17),(1,6,11),(1,5,10),(2,11,22)); lvl=1; h,r-ind=1,1
    [3,3]((2,11,21),(1,6,11),(2,11,22)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,21),(1,5,10),(2,11,22)); lvl=2; h,r-ind=1,1
    [4,3]((2,10,17),(4,22,37),(2,11,21),(1,5,10)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,9),(1,5,10),(2,11,21),(4,22,39)); lvl=3; h,r-ind=1,1
        [4,3]((4,21,39),(1,5,10),(2,11,20),(2,11,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,20),(2,11,21),(3,16,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(2,11,21),(3,16,30)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,39),(2,11,20),(3,16,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(4,21,39),(3,16,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(4,21,39),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((4,22,39),(1,5,9),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(4,21,39),(1,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,11,19),(4,22,39)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,9),(3,16,27),(2,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,27),(4,22,37),(2,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,17),(1,5,9),(3,16,27)); lvl=3; h,r-ind=1,1
    [4,3]((4,22,37),(2,11,21),(2,12,19),(1,6,11)); lvl=2; h,r-ind=1,1
      [4,3]((2,11,21),(4,22,39),(1,6,11),(1,6,10)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,11),(4,23,41),(1,6,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,20),(4,23,41),(1,6,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,20),(4,22,39),(1,6,10)); lvl=4; h,r-ind=1,1
        [4,3]((2,11,21),(2,11,20),(1,6,11),(4,23,41)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,20),(4,23,41),(3,17,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(4,23,41),(3,17,31)); lvl=5; h,r-ind=1,1
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          [3,3]((2,11,21),(2,11,20),(3,17,31)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,19),(4,22,39),(1,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,19),(3,17,28),(1,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,28),(2,12,19),(1,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,22,37),(2,11,19),(3,17,28)); lvl=3; h,r-ind=1,1
    [5,3]((1,5,8),(2,10,17),(4,22,37),(1,6,9),(2,12,19)); lvl=2; h,r-ind=1,1
      [4,3]((3,16,27),(2,11,18),(4,22,37),(3,17,28)); lvl=3; h,r-ind=1,1
        [3,3]((6,33,55),(3,17,28),(2,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,27),(6,33,55),(2,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,22,37),(6,33,55),(3,17,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,27),(4,22,37),(6,33,55)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,19),(2,11,18),(3,17,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,9),(2,12,19),(2,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(1,6,9),(2,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,27),(2,10,17),(2,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(2,10,17),(2,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(2,11,16),(1,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,16),(2,12,17),(1,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,15),(1,5,8),(2,11,16)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,10,15),(2,12,17)); lvl=1; h,r-ind=1,1
    [4,3]((2,12,17),(1,6,8),(2,11,16),(2,11,15)); lvl=2; h,r-ind=1,1
      [3,3]((3,17,24),(2,11,15),(2,11,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,17),(3,17,24),(2,11,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,24),(1,6,8),(2,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,17),(3,17,24),(1,6,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(2,10,15),(2,11,16),(2,11,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,10,15),(2,11,16),(5,26,38)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,16),(5,26,38)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,15),(1,5,7),(2,11,16)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,6),(1,5,7),(2,10,15),(5,26,38)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,7),(5,26,38),(3,15,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,15),(5,26,38),(3,15,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(1,5,7),(3,15,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,15),(1,4,6),(3,15,22)); lvl=4; h,r-ind=1,1
    [5,3]((1,4,6),(2,6,9),(1,3,3),(2,9,9),(2,11,15)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((1,4,6),(2,8,11),(1,3,4),(2,6,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,10),(2,8,11),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,9),(2,7,10),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(2,6,9),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(2,7,10),(2,8,11)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,12),(2,8,11),(1,3,4),(3,13,16)); lvl=3; h,r-ind=1,1
        [4,3]((2,8,11),(1,4,5),(5,21,28),(1,3,4)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,21,28),(3,12,16),(1,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(3,12,16),(1,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,11),(5,21,28),(3,12,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(2,8,11),(3,12,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,12),(2,8,11),(5,21,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,12),(1,4,5),(5,21,28)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,9,12),(3,13,16),(1,4,5)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,4),(1,3,3),(1,4,4),(3,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,12),(1,4,4),(1,3,3)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(3,11,12),(1,4,5),(1,3,3)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,5),(3,11,12),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(3,11,12),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(1,3,3),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,5),(2,7,8)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,12),(1,4,5),(1,4,4)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,16),(1,4,5),(1,4,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,4),(3,13,16)); lvl=3; h,r-ind=2,2; alert-r-inc; optimized-h
    [3,3]((1,5,6),(2,9,9),(1,4,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,7),(1,5,6),(2,9,12),(3,13,16)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,12),(5,23,30),(2,9,11),(3,13,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,18,23),(5,23,30),(2,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,16),(4,18,23),(2,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,12),(3,13,16),(4,18,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,12),(4,18,23),(5,23,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(2,9,12),(5,23,30)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,7),(5,23,30),(1,5,6),(2,9,11)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,23,30),(3,14,18),(2,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(3,14,18),(2,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(5,23,30),(3,14,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(1,5,7),(3,14,18)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,7),(1,5,6),(2,11,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(1,5,7),(2,9,12),(2,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,9,12),(3,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,11),(2,9,12),(3,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,8,11),(3,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,5,7),(3,13,18)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(2,6,9),(1,3,3)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,9,9),(0,1,0),(1,6,8),(2,11,15)); lvl=2; h,r-ind=1,1
    [4,3]((2,11,12),(4,22,23),(3,17,19),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,22,23),(3,17,18),(1,6,6)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,19),(3,17,18),(1,6,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,12),(4,22,23),(3,17,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,19),(2,11,12),(3,17,18)); lvl=4; h,r-ind=1,1
    [5,3]((0,1,0),(1,6,8),(3,17,21),(3,17,19),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(3,17,20),(3,17,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,6),(3,17,19)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,7),(1,6,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(0,1,0),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(3,17,21),(3,17,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(1,6,7),(3,17,21)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(1,5,5),(4,22,23),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(2,11,11),(4,22,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(2,11,11),(4,22,23)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(2,11,11)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(2,11,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,9),(0,1,0),(1,5,5)); lvl=3; h,r-ind=1,1
    [5,3]((1,5,6),(2,11,14),(3,17,21),(2,11,12),(3,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(3,17,19),(3,17,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,13),(3,17,21),(3,17,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,14),(2,11,13),(3,17,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,13),(2,11,12),(3,17,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,11,13),(2,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,14),(1,5,6),(2,11,13)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,15),(1,5,6),(2,11,14)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,15),(1,6,8),(2,11,14),(3,17,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(3,17,22),(3,17,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,14),(3,17,22),(3,17,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,15),(2,11,14),(3,17,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,15),(1,6,8),(3,17,22)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,6),(1,5,5),(2,11,12),(4,22,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,12),(4,22,23),(3,16,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(4,22,23),(3,16,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,11,12),(3,16,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(1,5,6),(3,16,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,9),(1,5,6),(1,5,5)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,3),(2,9,9),(0,1,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(1,3,3),(0,1,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(2,12,17),(1,6,8)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(2,12,17),(1,6,11)); lvl=1; h,r-ind=5,5; optimized-h
[4,3]((1,6,17),(1,6,11),(2,11,22),(2,11,30)); lvl=1; h,r-ind=2,1
  [4,3]((1,6,14),(2,11,26),(1,6,11),(2,11,22)); lvl=2; h,r-ind=1,1
    [4,3]((2,12,25),(1,6,11),(2,11,24),(2,11,22)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,12),(1,6,11),(2,11,22),(2,11,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(2,11,22),(3,17,34)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,23),(2,11,22),(3,17,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,12),(1,6,11),(3,17,34)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((2,11,23),(1,6,12),(3,17,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,12),(2,11,24),(2,11,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,25),(1,6,12),(2,11,24)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,14),(2,12,25),(2,11,26),(2,11,24)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,13),(2,11,25),(2,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,13),(2,12,25),(2,11,24)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,13),(1,6,14),(2,11,26),(2,11,25)); lvl=4; h,r-ind=1,1
          [3,3]((1,6,14),(2,11,26),(3,17,39)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,25),(2,11,26),(3,17,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,13),(1,6,14),(3,17,39)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,25),(1,6,13),(3,17,39)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,17),(1,6,14),(2,11,30),(2,11,26)); lvl=2; h,r-ind=1,1
      [4,3]((2,12,31),(1,6,14),(2,11,28),(2,11,26)); lvl=3; h,r-ind=1,1
        [4,3]((1,6,15),(1,6,14),(2,11,26),(2,11,27)); lvl=4; h,r-ind=1,1
          [3,3]((1,6,14),(2,11,26),(3,17,41)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,27),(2,11,26),(3,17,41)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,15),(1,6,14),(3,17,41)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,27),(1,6,15),(3,17,41)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,15),(2,11,28),(2,11,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,31),(1,6,15),(2,11,28)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,17),(2,12,31),(2,11,30),(2,11,28)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,16),(2,11,28),(2,11,29)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,17),(1,6,16),(2,11,30),(2,11,29)); lvl=4; h,r-ind=1,1
          [3,3]((2,11,30),(2,11,29),(3,17,46)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,16),(2,11,29),(3,17,46)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,17),(1,6,16),(3,17,46)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,17),(2,11,30),(3,17,46)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,16),(2,12,31),(2,11,28)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,17),(0,1,0),(1,6,11)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((1,6,17),(2,11,30),(1,5,14)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,6,17),(1,5,14)); lvl=1; h,r-ind=1,1
```

17.16 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,7,17)); lvl=0; h,r-ind=17,289
  [5,3]((1,3,6),(1,5,10),(2,6,9),(1,7,10),(2,14,17)); lvl=1; h,r-ind=2,1
    [4,3]((1,7,9),(2,14,17),(2,10,13),(1,5,7)); lvl=2; h,r-ind=2,1
      [4,3]((1,6,8),(1,5,7),(2,10,13),(2,12,15)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,7),(4,22,29),(2,11,14),(2,10,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,14),(4,22,29),(3,16,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(4,22,29),(3,16,21)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,13),(2,11,14),(3,16,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(2,10,13),(3,16,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(1,5,7),(4,22,29)); lvl=4; h,r-ind=1,1
        [4,3]((2,12,15),(1,6,8),(4,22,29),(2,11,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,17,22),(4,22,29),(1,6,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,15),(3,17,22),(1,6,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,14),(2,12,15),(3,17,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,14),(3,17,22),(4,22,29)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,9),(1,6,8),(2,14,17),(2,12,15)); lvl=3; h,r-ind=1,1
        [4,3]((1,6,8),(4,26,33),(2,13,16),(2,12,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,13,16),(4,26,33),(3,19,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,8),(4,26,33),(3,19,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,15),(2,13,16),(3,19,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,8),(2,12,15),(3,19,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(1,6,8),(4,26,33)); lvl=4; h,r-ind=1,1
        [4,3]((2,14,17),(1,7,9),(4,26,33),(2,13,16)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,20,25),(4,26,33),(1,7,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,17),(3,20,25),(1,7,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,16),(2,14,17),(3,20,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,16),(3,20,25),(4,26,33)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,5),(2,6,9),(2,10,13),(1,5,7)); lvl=2; h,r-ind=2,1
      [4,3]((1,5,7),(1,4,6),(2,10,13),(2,8,11)); lvl=3; h,r-ind=1,1
        [4,3]((1,4,6),(4,18,25),(2,9,12),(2,8,11)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,12),(4,18,25),(3,13,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(4,18,25),(3,13,18)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,11),(2,9,12),(3,13,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(2,8,11),(3,13,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(1,4,6),(4,18,25)); lvl=4; h,r-ind=1,1
        [4,3]((2,10,13),(1,5,7),(4,18,25),(2,9,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,19),(1,5,7),(4,18,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,12),(3,14,19),(4,18,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,13),(3,14,19),(1,5,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,12),(2,10,13),(3,14,19)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,5),(1,4,6),(2,6,9),(2,8,11)); lvl=3; h,r-ind=1,1
        [4,3]((1,4,6),(4,14,21),(2,8,11),(2,7,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,14,21),(3,11,16),(2,7,10)); lvl=5; h,r-ind=1,1
```

```
        [3,3]((2,8,11),(3,11,16),(2,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(4,14,21),(3,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,11),(1,4,6),(3,11,16)); lvl=5; h,r-ind=1,1
      [4,3]((2,6,9),(1,3,5),(4,14,21),(2,7,10)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,5),(3,10,15),(4,14,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,10),(3,10,15),(4,14,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,9),(1,3,5),(3,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,10),(2,6,9),(3,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(1,4,6),(4,14,21)); lvl=4; h,r-ind=1,1
  [3,3]((1,7,9),(1,5,8),(1,5,7)); lvl=2; h,r-ind=2,2; alert-r-inc; optimized-h
  [3,3]((1,3,5),(1,5,8),(1,5,7)); lvl=2; h,r-ind=2,2; alert-r-inc; optimized-h
  [4,3]((1,3,6),(1,4,8),(1,3,5),(1,5,8)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((1,5,8),(1,4,7),(1,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,4,7),(1,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,6),(1,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,5,8),(1,4,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,10),(1,4,8),(1,5,8)); lvl=2; h,r-ind=2,2; alert-r-inc; optimized-h
  [4,3]((1,7,9),(1,7,10),(1,6,10),(1,5,8)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((1,6,9),(1,7,10),(1,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(1,6,9),(1,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,9),(1,5,8),(1,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,9),(1,6,9),(1,7,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,10),(1,6,10),(1,5,8)); lvl=2; h,r-ind=2,2; alert-r-inc; optimized-h
[3,3]((0,1,0),(1,7,10),(2,14,17)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((1,7,17),(0,1,0),(1,7,10)); lvl=1; h,r-ind=7,7; optimized-h
[4,3]((1,0,0),(0,1,0),(2,6,9),(2,14,17)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,3),(1,5,6),(1,2,2),(2,9,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,4),(2,9,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,9),(1,5,6),(1,4,4),(2,7,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,5),(5,19,21),(1,5,6),(1,4,4)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,8,9),(1,4,4),(5,19,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(2,8,9),(5,19,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(2,8,9),(1,4,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(1,5,6),(2,8,9)); lvl=5; h,r-ind=1,1
      [4,3]((2,7,7),(3,11,12),(5,19,21),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,16),(5,19,21),(3,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,7),(4,15,16),(3,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(2,7,7),(4,15,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(4,15,16),(5,19,21)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,8),(2,7,7),(3,11,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,5),(2,7,8),(3,11,12),(5,19,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(4,15,17),(3,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((5,19,21),(4,15,17),(3,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(5,19,21),(4,15,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,8),(4,15,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,9),(1,4,5),(2,7,8)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(2,7,9),(1,2,2),(2,7,7)); lvl=3; h,r-ind=3,1; alert-h-inc
      [3,3]((1,3,4),(2,7,8),(2,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(2,7,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(1,2,3),(1,3,3),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,2,2),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(1,3,3),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(1,2,3),(2,5,6)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,9,9)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((0,1,0),(1,5,6),(1,7,8),(2,9,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,5),(1,5,6),(1,6,6),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(1,6,7),(2,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(1,6,7),(2,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(1,6,6),(2,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,5),(2,11,12)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(1,7,8),(1,6,6),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,7),(1,6,6),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(1,7,7),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,8),(1,7,7)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(1,6,6)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,9),(1,5,5),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=3; h,r-ind=1,1
  [4,3]((2,14,17),(2,10,13),(1,5,6),(1,7,8)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((2,12,15),(1,6,7),(2,10,13),(1,5,6)); lvl=3; h,r-ind=1,1
      [4,3]((2,10,13),(2,11,14),(1,5,6),(4,22,27)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,14),(4,22,27),(3,16,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(4,22,27),(3,16,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,13),(2,11,14),(3,16,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(2,10,13),(3,16,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(1,5,6),(4,22,27)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,7),(2,12,15),(2,11,14),(4,22,27)); lvl=4; h,r-ind=1,2; alert-r-inc
```

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          [3,3]((2,12,15),(3,17,21),(2,11,14)); lvl=5; h,r-ind=1,1
          [3,3]((4,22,27),(3,17,21),(2,11,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(4,22,27),(3,17,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(2,12,15),(3,17,21)); lvl=5; h,r-ind=1,1
      [4,3]((2,14,17),(2,12,15),(1,7,8),(1,6,7)); lvl=3; h,r-ind=1,1
        [4,3]((2,12,15),(2,13,16),(1,6,7),(4,26,31)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,13,16),(4,26,31),(3,19,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(4,26,31),(3,19,23)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,15),(2,13,16),(3,19,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(2,12,15),(3,19,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(1,6,7),(4,26,31)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,8),(2,14,17),(2,13,16),(4,26,31)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,14,17),(3,20,24),(2,13,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,26,31),(3,20,24),(2,13,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(4,26,31),(3,20,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(2,14,17),(3,20,24)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(2,14,17),(1,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,9),(1,2,3),(2,10,13),(1,5,6)); lvl=2; h,r-ind=1,1
      [4,3]((2,8,11),(2,7,9),(1,5,6),(2,10,13)); lvl=3; h,r-ind=1,1
        [4,3]((2,10,13),(2,9,12),(1,4,5),(1,5,6)); lvl=4; h,r-ind=1,1
          [3,3]((1,4,5),(2,9,12),(3,14,18)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,13),(2,9,12),(3,14,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(2,10,13),(3,14,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(1,4,5),(3,14,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,11),(2,9,12),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,11),(2,7,9),(1,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,9),(2,8,11),(1,2,3),(2,7,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,4),(2,8,11),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(1,3,4),(2,8,11)); lvl=4; h,r-ind=1,1
        [4,3]((2,6,9),(2,7,10),(1,2,3),(1,3,4)); lvl=4; h,r-ind=1,1
          [3,3]((3,9,13),(1,3,4),(2,7,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,9),(3,9,13),(2,7,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(2,6,9),(3,9,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(3,9,13),(1,3,4)); lvl=5; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[4,3]((1,7,17),(1,5,10),(1,6,14),(1,7,10)); lvl=1; h,r-ind=1,1
    [3,3]((1,6,14),(1,5,10),(1,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,12),(1,5,10),(1,6,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,17),(2,14,27),(1,6,12),(1,6,13)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,12),(1,7,14),(1,7,15),(5,31,65)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,15),(1,7,14),(2,13,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(1,7,14),(2,13,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(6,38,79),(2,13,27)); lvl=4; h,r-ind=1,1
        [4,3]((3,19,40),(6,38,79),(1,7,15),(2,13,27)); lvl=4; h,r-ind=1,1
          [3,3]((5,32,67),(6,38,79),(2,13,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,15),(5,32,67),(2,13,27)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,40),(1,7,15),(5,32,67)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,40),(5,32,67),(6,38,79)); lvl=5; h,r-ind=1,1
        [4,3]((1,6,12),(3,19,40),(5,31,65),(6,38,79)); lvl=4; h,r-ind=1,1
          [3,3]((4,25,52),(3,19,40),(5,31,65)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,12),(4,25,52),(5,31,65)); lvl=5; h,r-ind=1,1
          [3,3]((6,38,79),(4,25,52),(3,19,40)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,12),(6,38,79),(4,25,52)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,17),(1,6,13),(1,7,15),(5,31,65)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((3,19,41),(3,19,40),(5,31,65),(1,6,13)); lvl=4; h,r-ind=1,2
          [3,3]((3,19,40),(5,31,65),(4,25,53)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,13),(5,31,65),(4,25,53)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,41),(3,19,40),(4,25,53)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,13),(3,19,41),(4,25,53)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,17),(3,19,41),(1,7,16),(1,6,13)); lvl=4; h,r-ind=1,2
          [3,3]((1,7,16),(3,19,41),(2,13,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,13),(3,19,41),(2,13,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,17),(1,6,13),(2,13,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,17),(1,7,16),(2,13,29)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,41),(1,7,15),(3,19,40)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((3,19,41),(1,7,16),(1,7,15)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((1,6,13),(1,6,12),(5,31,65)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,12),(2,14,27),(1,7,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,10),(1,7,10),(2,14,27),(1,6,12)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,10),(1,6,11),(1,7,10),(1,7,12)); lvl=3; h,r-ind=1,1
        [4,3]((1,6,11),(3,19,32),(1,7,11),(1,7,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,13,22),(1,7,11),(3,19,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(2,13,22),(3,19,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,12),(2,13,22),(1,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(1,7,12),(2,13,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(1,6,11),(3,19,32)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,10),(3,19,32),(1,7,10),(1,7,11)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,13,21),(1,7,10),(1,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,32),(2,13,21),(1,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,10),(3,19,32),(2,13,21)); lvl=5; h,r-ind=1,1
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```
          [3,3]((1,6,10),(2,13,21),(1,7,10)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,12),(1,6,11),(1,7,13),(1,7,12)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,13),(1,7,12),(2,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(1,7,12),(2,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(1,6,11),(2,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(1,7,13),(2,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(2,14,27),(1,7,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,10),(1,6,12),(1,5,10)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,7,17),(1,6,14),(1,6,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,6),(2,6,9)); lvl=1; h,r-ind=9,3; optimized-h
  [5,3]((1,3,6),(1,5,10),(1,5,12),(1,6,14),(1,3,7)); lvl=1; h,r-ind=1,2
    [3,3]((1,6,14),(1,5,12),(2,10,23)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,20),(1,4,9),(1,5,12),(2,10,23)); lvl=2; h,r-ind=1,1
      [3,3]((3,14,32),(1,5,12),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,20),(3,14,32),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,23),(3,14,32),(1,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,20),(2,10,23),(3,14,32)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,8),(1,3,6),(2,9,20),(1,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,6),(2,8,17),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,20),(2,8,17),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(2,9,20),(2,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(1,3,6),(2,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(1,4,9),(1,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,7),(1,4,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,20),(1,5,11),(1,6,14),(2,10,23)); lvl=2; h,r-ind=1,1
      [3,3]((3,15,34),(1,6,14),(1,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,20),(3,15,34),(1,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,23),(3,15,34),(1,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,20),(2,10,23),(3,15,34)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,10),(1,4,8),(2,9,20),(1,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,8),(2,9,19),(2,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,11),(2,9,19),(2,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,10),(1,5,11),(2,9,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,10),(1,4,8),(2,9,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,10),(1,5,11),(1,6,14)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,5,12),(1,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,7,17),(1,5,12),(1,6,14)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,7,17),(1,5,12)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,6),(1,3,7)); lvl=1; h,r-ind=3,3; optimized-h
```

17.17 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,8,17)); lvl=0; h,r-ind=17,289
  [5,3]((2,9,18),(1,1,2),(2,2,3),(1,8,9),(2,16,17)); lvl=1; h,r-ind=7,1
    [4,3]((1,2,3),(2,2,3),(2,9,11),(2,9,10)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,10),(2,9,11),(1,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,9),(4,11,13),(2,9,10),(1,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((2,6,7),(4,14,17),(2,7,8)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [5,3]((1,4,5),(11,39,48),(2,9,10),(4,14,17),(2,7,8)); lvl=4; h,r-ind=1,1
          [3,3]((2,7,8),(4,14,17),(7,25,30)); lvl=5; h,r-ind=1,1
          [4,3]((8,29,35),(5,18,22),(4,14,17),(7,25,30)); lvl=5; h,r-ind=1,1
            [3,3]((12,43,52),(4,14,17),(5,18,22)); lvl=6; h,r-ind=1,1
            [3,3]((8,29,35),(12,43,52),(5,18,22)); lvl=6; h,r-ind=1,1
            [3,3]((7,25,30),(8,29,35),(12,43,52)); lvl=6; h,r-ind=1,1
            [3,3]((7,25,30),(12,43,52),(4,14,17)); lvl=6; h,r-ind=1,1
          [4,3]((1,4,5),(8,29,35),(4,15,18),(5,18,22)); lvl=5; h,r-ind=1,1
            [3,3]((4,15,18),(8,29,35),(9,33,40)); lvl=6; h,r-ind=1,1
            [3,3]((5,18,22),(8,29,35),(9,33,40)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,5),(4,15,18),(9,33,40)); lvl=6; h,r-ind=1,1
            [3,3]((5,18,22),(1,4,5),(9,33,40)); lvl=6; h,r-ind=1,1
          [3,3]((5,18,22),(11,39,48),(4,14,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(5,18,22),(11,39,48)); lvl=5; h,r-ind=1,1
          [4,3]((8,29,35),(4,15,18),(2,7,8),(7,25,30)); lvl=5; h,r-ind=1,1
            [4,3]((8,29,35),(18,65,78),(3,11,13),(4,15,18)); lvl=6; h,r-ind=1,2; alert-r-inc
              [3,3]((3,11,13),(11,40,48),(18,65,78)); lvl=7; h,r-ind=1,1
              [3,3]((8,29,35),(11,40,48),(18,65,78)); lvl=7; h,r-ind=1,1
              [3,3]((4,15,18),(8,29,35),(11,40,48)); lvl=7; h,r-ind=1,1
              [3,3]((4,15,18),(3,11,13),(11,40,48)); lvl=7; h,r-ind=1,1
            [3,3]((7,25,30),(8,29,35),(18,65,78)); lvl=6; h,r-ind=1,1
            [4,3]((7,25,30),(18,65,78),(2,7,8),(3,11,13)); lvl=6; h,r-ind=1,2; alert-r-inc
              [3,3]((3,11,13),(18,65,78),(10,36,43)); lvl=7; h,r-ind=1,1
              [3,3]((7,25,30),(18,65,78),(10,36,43)); lvl=7; h,r-ind=1,1
              [3,3]((2,7,8),(3,11,13),(10,36,43)); lvl=7; h,r-ind=1,1
              [3,3]((7,25,30),(2,7,8),(10,36,43)); lvl=7; h,r-ind=1,1
          [3,3]((4,15,18),(2,8,9),(2,7,8)); lvl=5; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
          [4,3]((1,4,5),(4,15,18),(2,9,10),(2,8,9)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,12,14),(2,8,9),(4,15,18)); lvl=6; h,r-ind=1,1
```

```
          [3,3]((1,4,5),(3,12,14),(4,15,18)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,10),(3,12,14),(2,8,9)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(2,9,10),(3,12,14)); lvl=6; h,r-ind=1,1
      [5,3]((6,21,26),(11,39,48),(3,9,11),(2,6,7),(4,14,17)); lvl=4; h,r-ind=1,1
        [5,3]((9,30,37),(8,27,33),(3,9,11),(3,10,12),(2,6,7)); lvl=5; h,r-ind=1,1
          [4,3]((4,13,16),(3,10,12),(15,50,61),(9,29,35)); lvl=6; h,r-ind=1,1
            [3,3]((3,10,12),(7,23,28),(15,50,61)); lvl=7; h,r-ind=1,1
            [3,3]((4,13,16),(7,23,28),(15,50,61)); lvl=7; h,r-ind=1,1
            [3,3]((9,29,35),(3,10,12),(7,23,28)); lvl=7; h,r-ind=1,1
            [3,3]((4,13,16),(9,29,35),(7,23,28)); lvl=7; h,r-ind=1,1
          [3,3]((2,6,7),(3,10,12),(9,29,35)); lvl=6; h,r-ind=1,1
          [4,3]((4,13,16),(3,9,11),(2,6,7),(9,29,35)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((6,19,23),(3,9,11),(2,6,7)); lvl=7; h,r-ind=1,1
            [3,3]((9,29,35),(6,19,23),(2,6,7)); lvl=7; h,r-ind=1,1
            [3,3]((4,13,16),(9,29,35),(6,19,23)); lvl=7; h,r-ind=1,1
            [3,3]((4,13,16),(6,19,23),(3,9,11)); lvl=7; h,r-ind=1,1
          [3,3]((8,27,33),(3,10,12),(15,50,61)); lvl=6; h,r-ind=1,1
          [4,3]((4,13,16),(9,30,37),(8,27,33),(15,50,61)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((8,27,33),(12,40,49),(9,30,37)); lvl=7; h,r-ind=1,1
            [3,3]((4,13,16),(12,40,49),(9,30,37)); lvl=7; h,r-ind=1,1
            [3,3]((15,50,61),(8,27,33),(12,40,49)); lvl=7; h,r-ind=1,1
            [3,3]((4,13,16),(15,50,61),(12,40,49)); lvl=7; h,r-ind=1,1
        [4,3]((10,35,43),(4,14,17),(8,27,33),(3,10,12)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,17),(16,55,67),(3,10,12)); lvl=6; h,r-ind=1,1
          [4,3]((9,31,38),(8,27,33),(16,55,67),(3,10,12)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((8,27,33),(12,41,50),(3,10,12)); lvl=7; h,r-ind=1,1
            [3,3]((16,55,67),(12,41,50),(3,10,12)); lvl=7; h,r-ind=1,1
            [3,3]((9,31,38),(16,55,67),(12,41,50)); lvl=7; h,r-ind=1,1
            [3,3]((9,31,38),(8,27,33),(12,41,50)); lvl=7; h,r-ind=1,1
          [4,3]((10,35,43),(9,31,38),(4,14,17),(16,55,67)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((13,45,55),(9,31,38),(16,55,67)); lvl=7; h,r-ind=1,1
            [3,3]((13,45,55),(4,14,17),(16,55,67)); lvl=7; h,r-ind=1,1
            [3,3]((10,35,43),(13,45,55),(4,14,17)); lvl=7; h,r-ind=1,1
            [3,3]((10,35,43),(13,45,55),(9,31,38)); lvl=7; h,r-ind=1,1
        [3,3]((11,39,48),(10,35,43),(4,14,17)); lvl=5; h,r-ind=1,1
        [3,3]((6,21,26),(11,39,48),(10,35,43)); lvl=5; h,r-ind=1,1
        [4,3]((6,21,26),(10,35,43),(9,30,37),(8,27,33)); lvl=5; h,r-ind=1,1
          [3,3]((5,17,21),(9,31,38),(8,27,33)); lvl=6; h,r-ind=1,1
          [3,3]((9,30,37),(5,17,21),(8,27,33)); lvl=6; h,r-ind=1,1
          [4,3]((6,21,26),(5,17,21),(10,35,43),(9,31,38)); lvl=6; h,r-ind=1,1
            [3,3]((15,52,64),(9,31,38),(5,17,21)); lvl=7; h,r-ind=1,1
            [3,3]((6,21,26),(15,52,64),(5,17,21)); lvl=7; h,r-ind=1,1
            [3,3]((10,35,43),(15,52,64),(9,31,38)); lvl=7; h,r-ind=1,1
            [3,3]((6,21,26),(10,35,43),(15,52,64)); lvl=7; h,r-ind=1,1
      [3,3]((2,7,9),(6,21,26),(3,9,11)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,4,5),(2,7,9),(6,21,26),(11,39,48)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,9),(7,25,31),(6,21,26)); lvl=5; h,r-ind=1,1
        [3,3]((11,39,48),(7,25,31),(6,21,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(11,39,48),(7,25,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,9),(7,25,31)); lvl=5; h,r-ind=1,1
      [3,3]((3,9,11),(2,6,7),(4,11,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(2,7,9),(2,2,3),(4,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,11),(4,11,13),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(3,9,11),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,4,5),(2,5,6)); lvl=4; h,r-ind=1,1
      [4,3]((2,2,3),(1,2,3),(1,3,4),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,2,3),(4,8,11)); lvl=5; h,r-ind=1,1
        [4,3]((2,2,3),(2,3,4),(1,2,3),(4,8,11)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((1,2,3),(4,8,11),(3,5,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,4),(4,8,11),(3,5,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,2,3),(1,2,3),(3,5,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,4),(2,2,3),(3,5,7)); lvl=6; h,r-ind=1,1
        [4,3]((2,4,5),(2,3,4),(1,3,4),(4,8,11)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,6,8),(2,3,4),(4,8,11)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(3,6,8),(4,8,11)); lvl=6; h,r-ind=1,1
          [3,3]((2,4,5),(3,6,8),(2,3,4)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(2,4,5),(3,6,8)); lvl=6; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(3,9,11)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,8),(2,16,17),(2,9,11),(2,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,11),(1,5,6),(2,9,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,13),(4,25,27),(1,5,6),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,13),(4,22,25),(2,11,12)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [5,3]((1,5,6),(11,60,69),(2,9,10),(4,22,25),(2,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,24),(2,11,12),(2,10,11)); lvl=5; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [4,3]((1,5,6),(2,9,10),(4,21,24),(2,10,11)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,15,17),(2,10,11),(2,9,10)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,6),(3,15,17),(2,9,10)); lvl=6; h,r-ind=1,1
          [3,3]((4,21,24),(3,15,17),(2,10,11)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,6),(4,21,24),(3,15,17)); lvl=6; h,r-ind=1,1
        [4,3]((8,43,49),(7,38,43),(4,21,24),(2,11,12)); lvl=5; h,r-ind=1,1
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        [4,3]((18,97,110),(3,16,18),(2,11,12),(7,38,43)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((3,16,18),(10,54,61),(2,11,12)); lvl=7; h,r-ind=1,1
          [3,3]((7,38,43),(10,54,61),(2,11,12)); lvl=7; h,r-ind=1,1
          [3,3]((18,97,110),(3,16,18),(10,54,61)); lvl=7; h,r-ind=1,1
          [3,3]((7,38,43),(18,97,110),(10,54,61)); lvl=7; h,r-ind=1,1
        [3,3]((8,43,49),(18,97,110),(7,38,43)); lvl=6; h,r-ind=1,1
        [4,3]((8,43,49),(18,97,110),(3,16,18),(4,21,24)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((3,16,18),(11,59,67),(18,97,110)); lvl=7; h,r-ind=1,1
          [3,3]((8,43,49),(11,59,67),(18,97,110)); lvl=7; h,r-ind=1,1
          [3,3]((4,21,24),(8,43,49),(11,59,67)); lvl=7; h,r-ind=1,1
          [3,3]((4,21,24),(3,16,18),(11,59,67)); lvl=7; h,r-ind=1,1
      [3,3]((4,22,25),(7,38,43),(2,11,12)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,6),(8,43,49),(5,27,31),(4,21,24)); lvl=5; h,r-ind=1,1
        [3,3]((5,27,31),(8,43,49),(9,48,55)); lvl=6; h,r-ind=1,1
        [3,3]((4,21,24),(8,43,49),(9,48,55)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,6),(4,21,24),(9,48,55)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,6),(5,27,31),(9,48,55)); lvl=6; h,r-ind=1,1
      [4,3]((4,22,25),(8,43,49),(7,38,43),(5,27,31)); lvl=5; h,r-ind=1,1
        [3,3]((7,38,43),(12,65,74),(8,43,49)); lvl=6; h,r-ind=1,1
        [3,3]((5,27,31),(12,65,74),(8,43,49)); lvl=6; h,r-ind=1,1
        [3,3]((4,22,25),(7,38,43),(12,65,74)); lvl=6; h,r-ind=1,1
        [3,3]((5,27,31),(4,22,25),(12,65,74)); lvl=6; h,r-ind=1,1
      [3,3]((11,60,69),(4,22,25),(5,27,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,6),(11,60,69),(5,27,31)); lvl=5; h,r-ind=1,1
    [5,3]((6,33,38),(11,60,69),(3,18,20),(2,12,13),(4,22,25)); lvl=4; h,r-ind=1,1
      [4,3]((10,55,63),(8,45,51),(4,22,25),(3,17,19)); lvl=5; h,r-ind=1,1
        [4,3]((8,45,51),(9,50,57),(3,17,19),(16,89,101)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((12,67,76),(9,50,57),(16,89,101)); lvl=7; h,r-ind=1,1
          [3,3]((3,17,19),(12,67,76),(16,89,101)); lvl=7; h,r-ind=1,1
          [3,3]((8,45,51),(12,67,76),(9,50,57)); lvl=7; h,r-ind=1,1
          [3,3]((3,17,19),(8,45,51),(12,67,76)); lvl=7; h,r-ind=1,1
        [3,3]((4,22,25),(3,17,19),(16,89,101)); lvl=6; h,r-ind=1,1
        [4,3]((10,55,63),(4,22,25),(9,50,57),(16,89,101)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((13,72,82),(4,22,25),(16,89,101)); lvl=7; h,r-ind=1,1
          [3,3]((13,72,82),(9,50,57),(16,89,101)); lvl=7; h,r-ind=1,1
          [3,3]((10,55,63),(13,72,82),(9,50,57)); lvl=7; h,r-ind=1,1
          [3,3]((10,55,63),(13,72,82),(4,22,25)); lvl=7; h,r-ind=1,1
      [5,3]((9,51,58),(8,45,51),(3,18,20),(2,12,13),(3,17,19)); lvl=5; h,r-ind=1,1
        [4,3]((4,23,26),(3,18,20),(9,52,58),(2,12,13)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((3,18,20),(6,35,39),(2,12,13)); lvl=7; h,r-ind=1,1
          [3,3]((9,52,58),(6,35,39),(2,12,13)); lvl=7; h,r-ind=1,1
          [3,3]((4,23,26),(9,52,58),(6,35,39)); lvl=7; h,r-ind=1,1
          [3,3]((4,23,26),(3,18,20),(6,35,39)); lvl=7; h,r-ind=1,1
        [3,3]((3,17,19),(9,52,58),(2,12,13)); lvl=6; h,r-ind=1,1
        [4,3]((3,17,19),(4,23,26),(15,85,96),(9,52,58)); lvl=6; h,r-ind=1,1
          [3,3]((15,85,96),(7,40,45),(4,23,26)); lvl=7; h,r-ind=1,1
          [3,3]((9,52,58),(7,40,45),(4,23,26)); lvl=7; h,r-ind=1,1
          [3,3]((3,17,19),(15,85,96),(7,40,45)); lvl=7; h,r-ind=1,1
          [3,3]((3,17,19),(9,52,58),(7,40,45)); lvl=7; h,r-ind=1,1
        [3,3]((8,45,51),(3,17,19),(15,85,96)); lvl=6; h,r-ind=1,1
        [4,3]((8,45,51),(9,51,58),(4,23,26),(15,85,96)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((12,68,77),(4,23,26),(9,51,58)); lvl=7; h,r-ind=1,1
          [3,3]((8,45,51),(12,68,77),(9,51,58)); lvl=7; h,r-ind=1,1
          [3,3]((15,85,96),(12,68,77),(4,23,26)); lvl=7; h,r-ind=1,1
          [3,3]((8,45,51),(15,85,96),(12,68,77)); lvl=7; h,r-ind=1,1
      [4,3]((6,33,38),(10,55,63),(9,51,58),(8,45,51)); lvl=5; h,r-ind=1,1
        [4,3]((6,33,38),(5,28,32),(10,55,63),(9,50,57)); lvl=6; h,r-ind=1,1
          [3,3]((15,83,95),(9,50,57),(5,28,32)); lvl=7; h,r-ind=1,1
          [3,3]((6,33,38),(15,83,95),(5,28,32)); lvl=7; h,r-ind=1,1
          [3,3]((10,55,63),(15,83,95),(9,50,57)); lvl=7; h,r-ind=1,1
          [3,3]((6,33,38),(10,55,63),(15,83,95)); lvl=7; h,r-ind=1,1
        [3,3]((5,28,32),(8,45,51),(9,50,57)); lvl=6; h,r-ind=1,1
        [3,3]((9,51,58),(5,28,32),(8,45,51)); lvl=6; h,r-ind=1,1
      [3,3]((10,55,63),(11,60,69),(4,22,25)); lvl=5; h,r-ind=1,1
      [3,3]((6,33,38),(10,55,63),(11,60,69)); lvl=5; h,r-ind=1,1
    [3,3]((2,11,13),(6,33,38),(3,18,20)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,5,6),(2,11,13),(6,33,38),(11,60,69)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,13),(7,38,44),(6,33,38)); lvl=5; h,r-ind=1,1
      [3,3]((11,60,69),(7,38,44),(6,33,38)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,6),(11,60,69),(7,38,44)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,6),(2,11,13),(7,38,44)); lvl=5; h,r-ind=1,1
    [3,3]((3,18,20),(4,25,27),(2,12,13)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,8),(2,11,13),(2,16,17),(4,25,27)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,14),(4,25,27),(3,18,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(2,13,14),(3,18,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,13),(1,6,7),(3,18,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(2,13,14),(2,14,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,8),(2,16,17),(1,6,7),(2,14,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,7),(4,28,31),(2,15,16),(2,14,15)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,15,16),(4,28,31),(3,21,23)); lvl=6; h,r-ind=1,1
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        [3,3]((1,6,7),(4,28,31),(3,21,23)); lvl=6; h,r-ind=1,1
        [3,3]((2,14,15),(2,15,16),(3,21,23)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(2,14,15),(3,21,23)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,8),(1,6,7),(4,28,31)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,8),(4,28,31),(2,16,17),(2,15,16)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,22,24),(2,15,16),(4,28,31)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,8),(3,22,24),(4,28,31)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,24),(2,16,17),(2,15,16)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,8),(3,22,24),(2,16,17)); lvl=6; h,r-ind=1,1
[5,3]((2,11,16),(2,10,15),(4,18,27),(1,7,8),(2,9,11)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,7),(1,5,6),(2,9,11),(4,18,25)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,12),(1,5,6),(2,9,11),(4,19,25)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,6),(2,9,11),(3,14,18)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,12),(2,9,11),(3,14,18)); lvl=5; h,r-ind=1,1
      [3,3]((4,19,25),(1,5,6),(3,14,18)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,12),(4,19,25),(3,14,18)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,12),(4,19,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,12),(4,18,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(1,5,6),(4,19,25)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,7),(2,9,13),(4,18,25)); lvl=3; h,r-ind=1,1
  [4,3]((3,14,21),(1,5,7),(4,18,27),(2,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((4,18,27),(2,9,13),(5,23,34)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,13),(5,23,34)); lvl=4; h,r-ind=1,1
    [3,3]((3,14,21),(1,5,7),(5,23,34)); lvl=4; h,r-ind=1,1
    [3,3]((3,14,21),(4,18,27),(5,23,34)); lvl=4; h,r-ind=1,1
  [3,3]((2,10,15),(3,14,21),(1,5,7)); lvl=3; h,r-ind=1,1
  [3,3]((2,11,16),(2,10,15),(1,5,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,7),(2,11,13),(1,5,6)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,7),(1,6,8),(1,7,8),(2,11,13)); lvl=3; h,r-ind=1,1
    [4,3]((3,17,22),(1,6,7),(1,6,8),(1,7,8)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,6,7),(1,7,8),(2,12,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(1,7,8),(2,12,15)); lvl=5; h,r-ind=1,1
      [3,3]((3,17,22),(1,6,8),(2,12,15)); lvl=5; h,r-ind=1,1
      [3,3]((3,17,22),(1,6,7),(2,12,15)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,7),(3,17,22),(1,6,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(3,17,22),(1,6,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(2,11,13),(1,6,7)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,16),(1,5,7),(1,6,8)); lvl=3; h,r-ind=1,1
[4,3]((1,5,9),(2,11,16),(1,6,9),(2,10,15)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,9),(2,11,16),(4,22,33)); lvl=3; h,r-ind=1,1
  [4,3]((2,10,15),(1,5,8),(2,11,16),(4,22,33)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((3,16,24),(2,11,16),(4,22,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(3,16,24),(4,22,33)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,15),(1,5,8),(3,16,24)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,15),(3,16,24),(2,11,16)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,8),(1,6,9),(4,22,33)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,9),(1,5,8),(1,6,9)); lvl=3; h,r-ind=1,1
[3,3]((1,8,9),(1,7,8),(2,16,17)); lvl=2; h,r-ind=1,1
[4,3]((2,11,16),(1,6,9),(1,8,9),(1,7,8)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,8),(1,7,8),(1,7,9),(1,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,8),(1,8,9),(2,14,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(1,8,9),(2,14,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,8),(1,7,8),(2,14,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(1,6,8),(2,14,17)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,8),(1,6,9),(1,7,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,8),(2,11,16),(1,6,9)); lvl=3; h,r-ind=1,1
[5,3]((1,2,3),(2,7,12),(4,18,27),(2,8,13),(2,9,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,6),(2,7,12),(1,3,5)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,3),(1,4,6),(2,7,9),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,9),(1,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((3,10,15),(1,4,6),(1,3,4)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(3,10,15),(1,3,5),(1,3,4)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,3,5),(2,6,9),(3,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(3,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(2,6,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,5),(2,6,9)); lvl=5; h,r-ind=1,1
    [3,3]((3,10,15),(1,3,5),(1,4,6)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,6),(1,4,5),(2,7,9)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,6),(4,18,25),(2,9,11),(1,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(4,17,23),(2,9,12),(2,9,11)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,17,23),(3,13,17),(2,9,12)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,11),(3,13,17),(2,9,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,11),(3,13,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,5),(4,17,23),(3,13,17)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,6),(1,4,5),(4,17,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(4,17,23),(2,9,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(4,18,25),(2,9,12)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,6),(2,8,13),(2,7,12)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,6),(2,8,13),(3,13,20)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,6),(2,9,13),(3,13,20),(4,18,27)); lvl=3; h,r-ind=1,1
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      [3,3]((2,9,13),(4,18,27),(5,22,33)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,20),(4,18,27),(5,22,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,9,13),(5,22,33)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,20),(1,4,6),(5,22,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(4,18,25),(2,9,13)); lvl=3; h,r-ind=1,1
  [5,3]((1,4,8),(1,5,9),(2,10,15),(4,18,27),(2,8,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,8),(1,4,7),(1,5,8),(1,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(1,5,8),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(1,5,8),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,4,7),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(1,4,8),(2,9,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(1,5,8),(2,9,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,8),(2,10,15),(2,9,14),(3,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,15),(3,14,21),(4,19,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,14),(3,14,21),(4,19,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,10,15),(4,19,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,14),(1,5,8),(4,19,29)); lvl=4; h,r-ind=1,1
    [4,3]((4,18,27),(3,13,20),(2,9,14),(3,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((6,27,41),(3,13,20),(2,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,21),(6,27,41),(2,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,27),(3,14,21),(6,27,41)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,27),(6,27,41),(3,13,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,7),(2,8,13),(3,13,20),(2,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,13),(3,13,20),(4,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,14),(3,13,20),(4,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,9,14),(4,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,8,13),(4,17,27)); lvl=4; h,r-ind=1,1
  [3,3]((2,9,18),(1,4,8),(1,5,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,8),(2,7,12),(1,3,6),(2,8,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,12),(1,3,6),(4,14,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(1,3,6),(4,14,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(1,4,7),(1,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,8,13),(1,4,7),(2,7,12),(4,14,25)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,12),(4,14,25),(3,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(4,14,25),(3,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,13),(1,4,7),(3,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,13),(2,7,12),(3,11,19)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,3),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(2,7,12),(1,3,6),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,6),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,4),(1,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,5),(1,2,3),(1,2,4),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,2),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,1,2),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,3),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(2,4,7)); lvl=4; h,r-ind=1,1
[3,3]((0,1,0),(1,8,9),(2,16,17)); lvl=1; h,r-ind=1,1
[3,3]((1,8,17),(0,1,0),(1,8,9)); lvl=1; h,r-ind=8,8; optimized-h
[4,3]((1,0,0),(0,1,0),(2,2,3),(2,16,17)); lvl=1; h,r-ind=1,1
  [4,3]((2,9,9),(2,9,10),(1,8,8),(2,16,17)); lvl=2; h,r-ind=7,1; alert-h-inc
    [4,3]((1,8,8),(1,6,6),(2,16,17),(4,25,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,14),(4,25,27),(1,6,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,7),(2,13,14),(2,14,15),(1,6,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,15),(2,13,14),(3,20,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(2,13,14),(3,20,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,7),(2,14,15),(3,20,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(1,7,7),(3,20,21)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,7),(1,8,8),(2,14,15),(2,16,17)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,8),(4,30,31),(2,16,17),(2,15,16)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,23,24),(4,30,31),(2,15,16)); lvl=6; h,r-ind=1,1
          [3,3]((2,16,17),(3,23,24),(2,15,16)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,8),(2,16,17),(3,23,24)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,8),(3,23,24),(4,30,31)); lvl=6; h,r-ind=1,1
        [4,3]((2,14,15),(1,7,7),(4,30,31),(2,15,16)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,22,23),(1,7,7),(4,30,31)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,16),(3,22,23),(4,30,31)); lvl=6; h,r-ind=1,1
          [3,3]((2,14,15),(2,15,16),(3,22,23)); lvl=6; h,r-ind=1,1
          [3,3]((2,14,15),(3,22,23),(1,7,7)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,7),(1,8,8),(4,30,31)); lvl=5; h,r-ind=1,1
    [4,3]((2,9,10),(1,5,5),(1,6,6),(4,25,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(6,33,34),(1,6,6)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,12),(2,12,13),(6,33,34),(1,6,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,18),(1,6,6),(2,12,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,12),(3,17,18),(2,12,13)); lvl=5; h,r-ind=1,1
        [3,3]((8,45,47),(3,17,18),(1,6,6)); lvl=5; h,r-ind=1,1
        [4,3]((6,33,34),(4,22,23),(8,45,47),(1,6,6)); lvl=5; h,r-ind=1,1
          [3,3]((5,28,29),(8,45,47),(4,22,23)); lvl=6; h,r-ind=1,1
          [3,3]((6,33,34),(5,28,29),(4,22,23)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,6),(6,33,34),(5,28,29)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,6),(5,28,29),(8,45,47)); lvl=6; h,r-ind=1,1
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        [4,3]((2,11,12),(4,22,23),(8,45,47),(3,17,18)); lvl=5; h,r-ind=1,1
          [3,3]((7,39,41),(4,22,23),(8,45,47)); lvl=6; h,r-ind=1,1
          [3,3]((7,39,41),(3,17,18),(8,45,47)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,12),(7,39,41),(3,17,18)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,12),(7,39,41),(4,22,23)); lvl=6; h,r-ind=1,1
      [3,3]((2,12,13),(4,25,27),(1,6,6)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,10),(2,11,12),(1,5,5),(6,33,34)); lvl=4; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,5,5),(4,21,22),(4,22,23),(6,33,34)); lvl=5; h,r-ind=1,2
          [3,3]((4,21,22),(5,27,28),(4,22,23)); lvl=6; h,r-ind=1,1
          [3,3]((6,33,34),(5,27,28),(4,22,23)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,5),(6,33,34),(5,27,28)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,5),(4,21,22),(5,27,28)); lvl=6; h,r-ind=1,1
        [4,3]((2,9,10),(2,10,11),(1,5,5),(4,21,22)); lvl=5; h,r-ind=1,2
          [3,3]((2,10,11),(4,21,22),(3,15,16)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,5),(4,21,22),(3,15,16)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,10),(1,5,5),(3,15,16)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,10),(2,10,11),(3,15,16)); lvl=6; h,r-ind=1,1
        [3,3]((4,21,22),(2,11,12),(4,22,23)); lvl=5; h,r-ind=2,2; optimized-h
        [3,3]((2,10,11),(4,21,22),(2,11,12)); lvl=5; h,r-ind=2,2; optimized-h
    [3,3]((2,9,10),(2,9,9),(1,5,5)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,8,8),(2,16,17)); lvl=2; h,r-ind=1,1
  [4,3]((2,2,3),(2,9,9),(2,9,10),(1,1,1)); lvl=2; h,r-ind=7,1; alert-h-inc
    [3,3]((2,9,10),(1,4,4),(2,9,9)); lvl=3; h,r-ind=1,1
    [4,3]((4,11,13),(1,3,3),(2,9,10),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,4,4),(6,21,22)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,10),(2,7,8),(1,4,4),(6,21,22)); lvl=4; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,4,4),(6,21,22),(4,14,15),(4,15,16)); lvl=5; h,r-ind=1,2
          [3,3]((6,21,22),(5,18,19),(4,14,15)); lvl=6; h,r-ind=1,1
          [3,3]((4,15,16),(5,18,19),(4,14,15)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,4),(6,21,22),(5,18,19)); lvl=6; h,r-ind=1,1
          [3,3]((4,15,16),(1,4,4),(5,18,19)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,8),(4,14,15),(4,15,16)); lvl=5; h,r-ind=2,2; optimized-h
        [3,3]((2,8,9),(2,7,8),(4,15,16)); lvl=5; h,r-ind=2,2; optimized-h
        [4,3]((1,4,4),(2,9,10),(2,8,9),(4,15,16)); lvl=5; h,r-ind=1,2
          [3,3]((3,12,13),(2,9,10),(2,8,9)); lvl=6; h,r-ind=1,1
          [3,3]((4,15,16),(3,12,13),(2,8,9)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,4),(4,15,16),(3,12,13)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,4),(3,12,13),(2,9,10)); lvl=6; h,r-ind=1,1
      [4,3]((2,6,7),(2,7,8),(1,3,3),(6,21,22)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,8),(4,14,15),(8,27,29),(3,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((7,24,26),(8,27,29),(4,14,15)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,8),(7,24,26),(4,14,15)); lvl=6; h,r-ind=1,1
          [3,3]((3,10,11),(7,24,26),(8,27,29)); lvl=6; h,r-ind=1,1
          [3,3]((3,10,11),(2,7,8),(7,24,26)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,3),(8,27,29),(3,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(3,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,7),(2,7,8),(3,10,11)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,3),(6,21,22),(4,14,15),(8,27,29)); lvl=5; h,r-ind=1,1
          [3,3]((6,21,22),(5,17,18),(4,14,15)); lvl=6; h,r-ind=1,1
          [3,3]((8,27,29),(5,17,18),(4,14,15)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,3),(8,27,29),(5,17,18)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,3),(6,21,22),(5,17,18)); lvl=6; h,r-ind=1,1
      [3,3]((4,11,13),(2,6,7),(1,3,3)); lvl=4; h,r-ind=1,1
    [4,3]((2,2,3),(4,11,13),(1,1,1),(1,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(2,5,6),(2,4,5),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(2,5,6),(3,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,5,6),(3,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(3,7,8)); lvl=5; h,r-ind=1,1
      [4,3]((2,2,3),(1,2,2),(1,1,1),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(4,6,7)); lvl=5; h,r-ind=1,1
        [4,3]((2,4,5),(2,3,4),(1,2,2),(4,6,7)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,6),(2,3,4),(4,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,2),(3,5,6),(4,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=6; h,r-ind=1,1
        [4,3]((2,2,3),(2,3,4),(1,1,1),(4,6,7)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,5),(2,3,4),(4,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((3,4,5),(1,1,1),(4,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=6; h,r-ind=1,1
          [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=6; h,r-ind=1,1
      [3,3]((4,11,13),(2,5,6),(1,3,3)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(2,9,9),(1,1,1)); lvl=2; h,r-ind=7,7; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,9,9),(1,8,8)); lvl=2; h,r-ind=7,7; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,8,17),(2,9,18),(1,8,9)); lvl=1; h,r-ind=56,56; alert-h-inc
  [3,3]((1,6,12),(1,6,11),(1,5,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,8,17),(1,6,12),(1,5,10)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,18),(1,8,17),(1,5,10)); lvl=2; h,r-ind=1,1
```

```
[4,3]((1,6,9),(1,5,9),(1,6,11),(1,5,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,9),(3,16,29),(1,5,10)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,10),(1,6,11),(3,16,29),(1,5,10)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((1,6,11),(2,11,20),(1,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((3,16,29),(2,11,20),(1,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(3,16,29),(2,11,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(1,6,11),(2,11,20)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,9),(1,6,10),(1,5,9),(3,16,29)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((2,11,19),(3,16,29),(1,6,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(2,11,19),(1,6,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,9),(1,6,9),(2,11,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,9),(2,11,19),(3,16,29)); lvl=4; h,r-ind=1,1
[3,3]((2,9,18),(1,5,9),(1,5,10)); lvl=2; h,r-ind=1,1
[4,3]((1,8,17),(1,6,12),(1,6,11),(1,8,13)); lvl=2; h,r-ind=2,2
  [3,3]((2,13,25),(1,6,12),(1,6,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,7,12),(2,13,25),(2,14,27),(1,6,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,13),(4,26,49),(2,13,25),(2,14,27)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,20,38),(4,26,49),(2,13,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,14,27),(3,20,38),(2,13,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,13),(2,14,27),(3,20,38)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,13),(3,20,38),(4,26,49)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,11),(1,7,13),(4,26,49)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,11),(1,7,13),(1,7,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,11),(4,26,49),(2,13,25)); lvl=4; h,r-ind=1,1
  [4,3]((1,8,13),(1,7,12),(1,8,15),(2,14,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,15),(1,7,13),(2,14,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,14),(1,8,15),(1,7,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,13),(1,8,14),(1,7,12),(1,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(1,7,13),(2,15,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,14),(1,7,13),(2,15,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,13),(1,8,14),(2,15,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,13),(1,7,12),(2,15,26)); lvl=5; h,r-ind=1,1
  [4,3]((1,8,17),(1,7,14),(1,8,15),(2,14,27)); lvl=3; h,r-ind=1,1
    [3,3]((3,22,43),(1,7,14),(2,14,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,15),(3,22,43),(2,14,27)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,8,17),(1,8,16),(3,22,43),(1,7,14)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,8,16),(3,22,43),(2,15,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,14),(3,22,43),(2,15,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,17),(1,7,14),(2,15,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,17),(1,8,16),(2,15,30)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,15),(1,8,16),(3,22,43)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,7,14),(2,13,25),(2,14,27),(1,6,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,14,27),(2,13,25),(3,20,39)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,12),(2,13,25),(3,20,39)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,14),(2,14,27),(3,20,39)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,12),(1,7,14),(3,20,39)); lvl=4; h,r-ind=1,1
  [3,3]((1,8,17),(1,7,14),(1,6,12)); lvl=3; h,r-ind=1,1
[4,3]((1,6,9),(1,8,9),(1,6,11),(1,8,13)); lvl=2; h,r-ind=4,2
  [4,3]((1,7,12),(2,14,21),(1,8,13),(1,8,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,12),(1,7,11),(1,8,13),(1,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,13),(1,8,12),(2,15,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,11),(1,8,12),(2,15,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,12),(1,7,11),(2,15,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,12),(1,8,13),(2,15,24)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,11),(1,8,11),(1,8,12)); lvl=4; h,r-ind=1,1
    [3,3]((2,14,21),(1,7,11),(1,8,11)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,9),(1,8,9),(2,14,21),(1,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,10),(1,8,10),(1,8,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(2,14,21),(1,8,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,9),(1,7,10),(1,8,9),(1,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,9),(1,8,10),(2,15,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,10),(1,8,10),(2,15,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(1,8,9),(2,15,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,10),(1,7,9),(2,15,19)); lvl=5; h,r-ind=1,1
  [4,3]((1,6,9),(1,6,10),(1,7,9),(2,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,10),(1,7,10),(3,19,29)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,9),(1,7,9),(1,7,10),(3,19,29)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,13,19),(1,7,9),(1,7,10)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,29),(2,13,19),(1,7,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(3,19,29),(2,13,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(2,13,19),(1,7,9)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,10),(1,6,9),(3,19,29)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(2,14,21),(1,7,10)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,11),(1,6,10),(1,7,12),(2,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,10),(1,7,11),(2,14,21)); lvl=4; h,r-ind=1,1
    [3,3]((3,19,32),(1,6,10),(1,7,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,11),(3,19,32),(1,7,12),(1,7,11)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,7,11),(1,7,12),(2,13,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,11),(1,7,12),(2,13,22)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,32),(1,7,11),(2,13,22)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((1,6,11),(3,19,32),(2,13,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(3,19,32),(1,6,10)); lvl=4; h,r-ind=1,1
  [3,3]((1,8,17),(2,9,18),(1,1,2)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,0,0),(1,8,17),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
```

17.18 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,2,17)); lvl=0; h,r-ind=17,289
  [3,3]((1,0,0),(2,2,9),(1,1,8)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((0,1,0),(2,2,9),(1,1,8)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((2,2,17),(0,1,0),(1,1,8)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,17),(1,0,0),(1,1,8)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,9)); lvl=1; h,r-ind=9,81; optimized-h
```

17.19 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,17)); lvl=0; h,r-ind=17,289
  [4,3]((2,3,16),(2,3,14),(3,4,20),(3,4,21)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,15),(8,11,56),(3,4,20),(2,3,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,20),(5,7,35),(8,11,56)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,15),(5,7,35),(8,11,56)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,14),(2,3,15),(5,7,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,14),(3,4,20),(5,7,35)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,21),(8,11,56),(3,4,20)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,15),(2,3,16),(3,4,21),(8,11,56)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,16),(5,7,36),(3,4,21)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,56),(5,7,36),(3,4,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,15),(8,11,56),(5,7,36)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,15),(2,3,16),(5,7,36)); lvl=3; h,r-ind=1,1
  [5,3]((3,3,16),(1,1,5),(4,5,27),(3,4,20),(3,4,21)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,26),(3,4,20),(3,4,21)); lvl=2; h,r-ind=1,1
    [4,3]((8,10,53),(4,5,26),(9,11,58),(3,4,21)); lvl=2; h,r-ind=1,1
      [3,3]((12,15,79),(9,11,58),(4,5,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,21),(12,15,79),(4,5,26)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,53),(3,4,21),(12,15,79)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,53),(12,15,79),(9,11,58)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,27),(8,10,53),(3,4,21)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,27),(6,7,37),(8,10,53),(9,11,58)); lvl=2; h,r-ind=1,1
      [4,3]((5,6,32),(22,27,143),(9,11,58),(6,7,37)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,11,58),(22,27,143),(14,17,90)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,32),(22,27,143),(14,17,90)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,37),(9,11,58),(14,17,90)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,32),(6,7,37),(14,17,90)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,53),(22,27,143),(9,11,58)); lvl=3; h,r-ind=1,1
      [4,3]((5,6,32),(4,5,27),(8,10,53),(22,27,143)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,5,27),(13,16,85),(8,10,53)); lvl=4; h,r-ind=1,1
        [3,3]((22,27,143),(13,16,85),(8,10,53)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,32),(22,27,143),(13,16,85)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,32),(4,5,27),(13,16,85)); lvl=4; h,r-ind=1,1
    [3,3]((3,3,16),(4,5,27),(6,7,37)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,1,5),(6,7,37),(4,5,26),(9,11,58)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,37),(9,11,58),(10,12,63)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,26),(9,11,58),(10,12,63)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,5),(6,7,37),(10,12,63)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,26),(1,1,5),(10,12,63)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,5),(4,5,26),(3,4,20)); lvl=2; h,r-ind=1,1
    [3,3]((3,3,16),(1,1,5),(6,7,37)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,17),(2,3,16),(4,5,27),(3,4,21)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,21),(2,3,16),(8,11,59)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,22),(2,3,17),(2,3,16),(8,11,59)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,7,38),(2,3,17),(2,3,16)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,59),(5,7,38),(2,3,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,22),(8,11,59),(5,7,38)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,22),(5,7,38),(2,3,17)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,27),(3,4,22),(3,4,21),(8,11,59)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,22),(8,11,59),(6,8,43)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,21),(8,11,59),(6,8,43)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,27),(3,4,22),(6,8,43)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,21),(4,5,27),(6,8,43)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,17),(1,0,0),(3,3,16),(4,5,27)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,11),(1,0,0),(3,3,16)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,27),(2,2,11),(3,3,16)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,27),(3,4,22),(2,2,11)); lvl=2; h,r-ind=1,1
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    [3,3]((2,3,17),(3,4,22),(2,2,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,17),(2,2,11),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,16),(1,1,5)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,24),(2,3,16),(3,5,22),(2,3,14)); lvl=1; h,r-ind=2,1
    [4,3]((3,5,23),(3,5,22),(2,3,15),(2,3,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,15),(2,3,14),(5,8,37)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,22),(2,3,14),(5,8,37)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,23),(3,5,22),(5,8,37)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,23),(2,3,15),(5,8,37)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,24),(3,5,23),(2,3,15),(2,3,16)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,23),(2,3,15),(5,8,39)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,16),(2,3,15),(5,8,39)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,24),(3,5,23),(5,8,39)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,16),(3,5,24),(5,8,39)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,17),(3,5,24),(2,3,16)); lvl=1; h,r-ind=1,1
  [5,3]((1,1,3),(1,1,5),(4,6,17),(2,3,14),(3,4,20)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,14),(3,4,20),(3,4,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,5),(3,4,20),(3,4,19)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,4),(6,8,31),(1,1,5),(3,4,19)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,5),(7,8,35),(3,4,19),(3,4,17)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,1,5),(5,6,27),(3,4,18),(3,4,19)); lvl=4; h,r-ind=1,2
          [3,3]((4,5,23),(5,6,27),(3,4,18)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,19),(4,5,23),(3,4,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(3,4,19),(4,5,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(4,5,23),(5,6,27)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,17),(5,6,27),(3,4,18)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((5,6,26),(3,4,17),(5,6,27)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,1,5),(7,8,35),(5,6,26),(5,6,27)); lvl=4; h,r-ind=1,2
          [3,3]((6,7,31),(7,8,35),(5,6,26)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,27),(6,7,31),(5,6,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(5,6,27),(6,7,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(6,7,31),(7,8,35)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,4),(7,8,35),(3,4,16),(3,4,17)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,16),(3,4,17),(4,5,21)); lvl=4; h,r-ind=1,1
        [4,3]((5,6,26),(10,12,51),(3,4,17),(4,5,21)); lvl=4; h,r-ind=1,1
          [3,3]((9,11,47),(10,12,51),(4,5,21)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,17),(9,11,47),(4,5,21)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,26),(3,4,17),(9,11,47)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,26),(9,11,47),(10,12,51)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,4),(5,6,26),(7,8,35),(10,12,51)); lvl=4; h,r-ind=1,1
          [3,3]((6,7,30),(7,8,35),(5,6,26)); lvl=5; h,r-ind=1,1
          [3,3]((10,12,51),(6,7,30),(5,6,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(10,12,51),(6,7,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(6,7,30),(7,8,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(3,4,16),(4,5,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(10,12,51),(4,5,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(6,8,31),(3,4,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(1,1,5),(7,8,35)); lvl=3; h,r-ind=1,1
    [4,3]((6,8,31),(2,3,11),(2,3,14),(3,4,19)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,19),(3,4,17),(2,3,14),(4,6,25)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,17),(4,6,25),(2,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,17),(3,4,18),(2,3,13)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,19),(3,4,18),(2,3,14),(2,3,13)); lvl=4; h,r-ind=1,1
          [3,3]((2,3,13),(2,3,14),(5,7,32)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,19),(2,3,14),(5,7,32)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,18),(3,4,19),(5,7,32)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,18),(2,3,13),(5,7,32)); lvl=5; h,r-ind=1,1
      [4,3]((3,4,16),(3,4,17),(2,3,11),(4,6,25)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,17),(2,3,12),(4,6,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,17),(8,11,45),(2,3,12)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,16),(8,11,45),(2,3,11),(2,3,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,7,28),(2,3,11),(2,3,12)); lvl=5; h,r-ind=1,1
          [3,3]((8,11,45),(5,7,28),(2,3,12)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,16),(8,11,45),(5,7,28)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,16),(5,7,28),(2,3,11)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,17),(3,4,16),(8,11,45)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,31),(3,4,16),(2,3,11)); lvl=3; h,r-ind=1,1
    [5,3]((1,1,3),(1,1,4),(6,8,31),(2,3,11),(2,3,9)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,10),(3,4,14),(3,4,15),(2,3,11)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,25),(3,4,15),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(5,7,25),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(2,3,10),(5,7,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(5,7,25),(3,4,15)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,31),(3,4,15),(2,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(6,8,31),(3,4,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,4),(3,4,14),(5,6,21),(3,4,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,5,18),(3,4,14),(5,6,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(4,5,18),(5,6,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,15),(4,5,18),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(3,4,15),(4,5,18)); lvl=4; h,r-ind=1,1
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    [5,3]((1,1,3),(2,3,10),(2,3,9),(3,4,14),(5,6,21)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,30),(4,5,17),(1,1,3)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,30),(3,4,13),(1,1,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(3,4,13),(1,1,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(2,3,9),(3,4,13)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,21),(4,5,17),(1,1,3)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,14),(5,6,21),(4,5,17)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,14),(7,9,30),(4,5,17),(6,8,27)); lvl=4; h,r-ind=1,1
        [3,3]((10,13,44),(7,9,30),(4,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,14),(10,13,44),(4,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((10,13,44),(6,8,27),(7,9,30)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,14),(10,13,44),(6,8,27)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,10),(7,9,30),(3,4,13),(6,8,27)); lvl=4; h,r-ind=1,1
        [3,3]((9,12,40),(7,9,30),(3,4,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(9,12,40),(3,4,13)); lvl=5; h,r-ind=1,1
        [3,3]((6,8,27),(2,3,10),(9,12,40)); lvl=5; h,r-ind=1,1
        [3,3]((6,8,27),(9,12,40),(7,9,30)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,10),(3,4,14),(6,8,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,4),(1,1,3),(5,6,21)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,3),(4,6,17),(2,3,9)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,1,3),(1,1,5)); lvl=1; h,r-ind=2,2; optimized-h
[5,3]((1,2,7),(3,5,22),(2,4,9),(4,6,17),(2,3,14)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,14),(3,5,21),(3,5,22)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,7),(3,5,21),(3,5,22)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,14),(2,3,11),(3,5,17),(3,5,21)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,25),(3,5,19),(2,3,11),(3,5,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,12),(3,5,19),(3,5,18)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,11),(2,3,12),(3,5,17),(3,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,29),(3,5,18),(3,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,11),(5,8,29),(3,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,12),(5,8,29),(3,5,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,11),(2,3,12),(5,8,29)); lvl=5; h,r-ind=1,1
      [3,3]((4,6,25),(2,3,12),(3,5,19)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,14),(4,6,25),(3,5,21),(3,5,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(3,5,19),(3,5,20)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,14),(2,3,13),(3,5,21),(3,5,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,20),(3,5,21),(5,8,34)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,14),(3,5,21),(5,8,34)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,13),(2,3,14),(5,8,34)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,13),(3,5,20),(5,8,34)); lvl=5; h,r-ind=1,1
      [3,3]((4,6,25),(2,3,13),(3,5,19)); lvl=4; h,r-ind=1,1
  [4,3]((1,2,7),(2,4,11),(3,5,17),(3,5,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(3,5,17),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(3,5,19),(3,5,17)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,2,6),(1,2,7),(3,5,21),(3,5,19)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,7),(5,9,33),(3,5,20),(3,5,21)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,7,27),(5,9,33),(3,5,20)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,21),(4,7,27),(3,5,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(3,5,21),(4,7,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(4,7,27),(5,9,33)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,6),(1,2,7),(5,9,33)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,19),(1,2,6),(5,9,33),(3,5,20)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,7,26),(1,2,6),(5,9,33)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,26),(3,5,20),(5,9,33)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,19),(4,7,26),(3,5,20)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,19),(4,7,26),(1,2,6)); lvl=5; h,r-ind=1,1
  [5,3]((2,4,11),(1,2,5),(2,3,9),(2,3,11),(3,5,17)); lvl=2; h,r-ind=1,1
    [4,3]((4,7,21),(9,16,48),(1,2,5),(6,11,32)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,32),(9,16,48),(10,18,53)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,21),(9,16,48),(10,18,53)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(4,7,21),(10,18,53)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(6,11,32),(10,18,53)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,11),(1,2,5),(6,11,32)); lvl=3; h,r-ind=1,1
    [5,3]((2,4,11),(3,5,17),(6,10,33),(9,16,48),(6,11,32)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,33),(4,7,22),(3,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,11),(4,7,22),(3,5,17)); lvl=4; h,r-ind=1,1
      [4,3]((6,10,33),(15,26,81),(4,7,22),(9,16,49)); lvl=4; h,r-ind=1,1
        [4,3]((4,7,22),(16,28,87),(27,47,147),(9,16,49)); lvl=5; h,r-ind=1,1
          [3,3]((27,47,147),(20,35,109),(16,28,87)); lvl=6; h,r-ind=1,1
          [3,3]((9,16,49),(20,35,109),(16,28,87)); lvl=6; h,r-ind=1,1
          [3,3]((4,7,22),(9,16,49),(20,35,109)); lvl=6; h,r-ind=1,1
          [3,3]((4,7,22),(27,47,147),(20,35,109)); lvl=6; h,r-ind=1,1
        [3,3]((16,28,87),(12,21,65),(9,16,49)); lvl=5; h,r-ind=1,1
        [4,3]((7,12,38),(16,28,87),(12,21,65),(27,47,147)); lvl=5; h,r-ind=1,1
          [3,3]((23,40,125),(16,28,87),(12,21,65)); lvl=6; h,r-ind=1,1
          [3,3]((7,12,38),(23,40,125),(12,21,65)); lvl=6; h,r-ind=1,1
          [3,3]((23,40,125),(27,47,147),(16,28,87)); lvl=6; h,r-ind=1,1
          [3,3]((7,12,38),(23,40,125),(27,47,147)); lvl=6; h,r-ind=1,1
        [4,3]((4,7,22),(6,10,33),(7,12,38),(27,47,147)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((11,19,60),(7,12,38),(6,10,33)); lvl=6; h,r-ind=1,1
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            [3,3]((4,7,22),(11,19,60),(6,10,33)); lvl=6; h,r-ind=1,1
            [3,3]((27,47,147),(11,19,60),(7,12,38)); lvl=6; h,r-ind=1,1
            [3,3]((4,7,22),(27,47,147),(11,19,60)); lvl=6; h,r-ind=1,1
          [3,3]((7,12,38),(15,26,81),(12,21,65)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,11),(4,7,22),(9,16,49)); lvl=4; h,r-ind=1,1
        [4,3]((5,9,27),(15,26,81),(9,16,49),(9,16,48)); lvl=4; h,r-ind=1,1
          [3,3]((8,14,43),(15,26,81),(12,21,65)); lvl=5; h,r-ind=1,1
          [4,3]((8,14,43),(30,53,162),(17,30,92),(12,21,65)); lvl=5; h,r-ind=1,1
            [3,3]((25,44,135),(17,30,92),(30,53,162)); lvl=6; h,r-ind=1,1
            [3,3]((8,14,43),(25,44,135),(30,53,162)); lvl=6; h,r-ind=1,1
            [3,3]((25,44,135),(12,21,65),(17,30,92)); lvl=6; h,r-ind=1,1
            [3,3]((8,14,43),(25,44,135),(12,21,65)); lvl=6; h,r-ind=1,1
          [3,3]((17,30,92),(9,16,49),(12,21,65)); lvl=5; h,r-ind=1,1
          [4,3]((5,9,27),(30,53,162),(17,30,92),(9,16,49)); lvl=5; h,r-ind=1,1
            [3,3]((30,53,162),(22,39,119),(17,30,92)); lvl=6; h,r-ind=1,1
            [3,3]((9,16,49),(22,39,119),(17,30,92)); lvl=6; h,r-ind=1,1
            [3,3]((5,9,27),(30,53,162),(22,39,119)); lvl=6; h,r-ind=1,1
            [3,3]((9,16,49),(5,9,27),(22,39,119)); lvl=6; h,r-ind=1,1
          [4,3]((5,9,27),(9,16,48),(8,14,43),(30,53,162)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((9,16,48),(13,23,70),(8,14,43)); lvl=6; h,r-ind=1,1
            [3,3]((30,53,162),(13,23,70),(8,14,43)); lvl=6; h,r-ind=1,1
            [3,3]((5,9,27),(30,53,162),(13,23,70)); lvl=6; h,r-ind=1,1
            [3,3]((5,9,27),(9,16,48),(13,23,70)); lvl=6; h,r-ind=1,1
        [3,3]((6,11,32),(5,9,27),(9,16,48)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,11),(6,11,32),(5,9,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,11),(5,9,27),(9,16,49)); lvl=4; h,r-ind=1,1
      [5,3]((6,10,33),(2,3,10),(4,7,21),(9,16,48),(2,3,11)); lvl=3; h,r-ind=1,1
        [3,3]((3,5,16),(15,26,81),(6,10,33)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
        [3,3]((2,3,11),(3,5,16),(6,10,33)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(2,3,10),(3,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,16),(9,16,48),(15,26,81)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
        [3,3]((3,5,16),(4,7,21),(9,16,48)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(3,5,16),(4,7,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,17),(6,10,33),(2,3,11)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,9),(2,3,10),(4,7,21),(1,2,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,15),(4,7,21),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(3,5,15),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(2,3,9),(3,5,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(3,5,15),(4,7,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(3,5,13),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,13),(4,6,17),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(1,2,5),(3,5,13)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,7),(2,4,9)); lvl=1; h,r-ind=5,5; optimized-h
  [4,3]((3,5,24),(0,1,0),(1,2,7),(3,5,22)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,8),(6,11,45),(1,2,7),(0,1,0)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((1,2,7),(2,4,15),(6,11,45)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(2,4,15),(6,11,45)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,7),(2,4,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(0,1,0),(2,4,15)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,30),(6,11,45),(3,5,22),(1,2,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,7),(5,9,37),(6,11,45)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,30),(5,9,37),(6,11,45)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,30),(3,5,22),(5,9,37)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,22),(1,2,7),(5,9,37)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,23),(4,7,30),(3,5,22)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,8),(3,5,23),(4,7,30),(6,11,45)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,23),(5,9,38),(4,7,30)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,45),(5,9,38),(4,7,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(3,5,23),(5,9,38)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,45),(1,2,8),(5,9,38)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,8),(3,5,24),(3,5,23)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,17),(3,5,24),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((0,1,0),(1,0,0),(1,1,3),(2,4,9),(4,6,17)); lvl=1; h,r-ind=1,1
    [4,3]((3,5,12),(2,3,8),(4,6,17),(3,5,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,8),(5,8,21),(4,6,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(5,8,21),(4,6,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,12),(3,5,13),(5,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,12),(2,3,8),(5,8,21)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,9),(1,2,4),(3,5,12),(3,5,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(4,7,17),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(4,7,17),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(1,2,4),(4,7,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(2,4,9),(4,7,17)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,9),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,8),(4,6,17)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,12),(5,8,19),(2,3,8),(4,6,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,8),(4,6,15),(7,11,27)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,19),(4,6,15),(7,11,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,12),(2,3,8),(7,11,27)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,19),(3,5,12),(7,11,27)); lvl=3; h,r-ind=1,1
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[4,3]((1,2,4),(3,5,11),(3,5,12),(5,8,19)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,11),(5,8,19),(6,10,23)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,12),(5,8,19),(6,10,23)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,4),(3,5,12),(6,10,23)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,4),(3,5,11),(6,10,23)); lvl=3; h,r-ind=1,1
[5,3]((0,1,0),(1,2,3),(3,5,10),(1,2,4),(3,5,11)); lvl=2; h,r-ind=1,1
  [5,3]((6,11,21),(5,9,17),(3,5,10),(3,5,11),(5,9,18)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,14),(3,5,10),(5,9,17)); lvl=4; h,r-ind=1,1
    [3,3]((6,11,21),(4,7,14),(5,9,17)); lvl=4; h,r-ind=1,1
    [3,3]((6,11,21),(4,7,14),(5,9,18)); lvl=4; h,r-ind=1,1
    [3,3]((4,7,14),(3,5,10),(3,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((4,7,14),(5,9,18),(3,5,11)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,4),(3,5,11),(5,9,18)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,4),(2,4,7),(6,11,21),(5,9,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(6,11,21),(7,13,25)); lvl=4; h,r-ind=1,1
    [3,3]((5,9,18),(6,11,21),(7,13,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(2,4,7),(7,13,25)); lvl=4; h,r-ind=1,1
    [3,3]((5,9,18),(1,2,4),(7,13,25)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(2,4,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,3),(0,1,0),(2,4,7)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,3),(2,4,7),(6,11,21),(5,9,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(6,11,21),(7,13,24)); lvl=4; h,r-ind=1,1
    [3,3]((5,9,17),(6,11,21),(7,13,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,7),(7,13,24)); lvl=4; h,r-ind=1,1
    [3,3]((5,9,17),(1,2,3),(7,13,24)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,3),(5,9,17),(3,5,10)); lvl=3; h,r-ind=1,1
[5,3]((1,2,3),(3,5,10),(2,3,6),(4,6,9),(2,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,3),(3,5,9),(3,5,10)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,9),(2,3,6),(3,5,10)); lvl=3; h,r-ind=1,1
  [4,3]((3,5,9),(3,5,8),(2,3,6),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,5),(5,8,14)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,8),(2,3,5),(5,8,14)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,9),(3,5,8),(5,8,14)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,9),(2,3,6),(5,8,14)); lvl=4; h,r-ind=1,1
  [4,3]((1,2,3),(9,16,24),(3,5,9),(3,5,8)); lvl=3; h,r-ind=1,3; alert-r-inc
    [3,3]((3,5,9),(4,7,11),(3,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((9,16,24),(4,7,11),(3,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(9,16,24),(4,7,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,9),(4,7,11)); lvl=4; h,r-ind=1,1
  [4,3]((1,2,3),(9,16,24),(2,4,5),(5,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((9,16,24),(6,11,16),(5,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,5),(6,11,16),(5,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,5),(6,11,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(9,16,24),(6,11,16)); lvl=4; h,r-ind=1,1
  [5,3]((9,16,24),(3,5,8),(2,3,5),(3,5,7),(5,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((12,20,31),(2,3,5),(3,5,8)); lvl=4; h,r-ind=1,1
    [4,3]((8,14,21),(7,12,18),(12,20,31),(3,5,8)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((10,17,26),(7,12,18),(12,20,31)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,8),(10,17,26),(12,20,31)); lvl=5; h,r-ind=1,1
      [3,3]((8,14,21),(10,17,26),(7,12,18)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,8),(8,14,21),(10,17,26)); lvl=5; h,r-ind=1,1
    [3,3]((9,16,24),(8,14,21),(3,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((9,16,24),(8,14,21),(5,9,13)); lvl=4; h,r-ind=1,1
    [5,3]((7,12,18),(12,20,31),(4,7,10),(2,3,5),(3,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(6,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,5),(3,5,7),(6,10,15)); lvl=5; h,r-ind=1,1
      [4,3]((4,7,10),(15,25,38),(13,22,33),(6,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((19,32,48),(15,25,38),(13,22,33)); lvl=6; h,r-ind=1,1
        [3,3]((4,7,10),(19,32,48),(13,22,33)); lvl=6; h,r-ind=1,1
        [3,3]((19,32,48),(6,10,15),(15,25,38)); lvl=6; h,r-ind=1,1
        [3,3]((4,7,10),(19,32,48),(6,10,15)); lvl=6; h,r-ind=1,1
      [3,3]((2,3,5),(15,25,38),(6,10,15)); lvl=5; h,r-ind=1,1
      [4,3]((7,12,18),(9,15,23),(15,25,38),(13,22,33)); lvl=5; h,r-ind=1,1
        [3,3]((22,37,56),(15,25,38),(9,15,23)); lvl=6; h,r-ind=1,1
        [3,3]((7,12,18),(22,37,56),(9,15,23)); lvl=6; h,r-ind=1,1
        [3,3]((22,37,56),(13,22,33),(15,25,38)); lvl=6; h,r-ind=1,1
        [3,3]((7,12,18),(22,37,56),(13,22,33)); lvl=6; h,r-ind=1,1
      [3,3]((12,20,31),(7,12,18),(9,15,23)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,5),(9,15,23),(15,25,38)); lvl=5; h,r-ind=1,1
      [3,3]((12,20,31),(2,3,5),(9,15,23)); lvl=5; h,r-ind=1,1
      [3,3]((7,12,18),(4,7,10),(13,22,33)); lvl=5; h,r-ind=1,1
    [4,3]((8,14,21),(7,12,18),(5,9,13),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((12,21,31),(4,7,10),(7,12,18)); lvl=5; h,r-ind=1,1
      [3,3]((8,14,21),(12,21,31),(7,12,18)); lvl=5; h,r-ind=1,1
      [3,3]((5,9,13),(12,21,31),(4,7,10)); lvl=5; h,r-ind=1,1
      [3,3]((8,14,21),(5,9,13),(12,21,31)); lvl=5; h,r-ind=1,1
  [3,3]((2,4,5),(3,5,7),(5,9,13)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,3,5),(4,6,9),(3,5,7)); lvl=3; h,r-ind=1,1
[4,3]((0,1,0),(1,0,0),(4,6,9),(2,4,5)); lvl=2; h,r-ind=1,1
  [6,3]((3,5,7),(3,5,6),(3,4,5),(4,6,7),(5,6,9),(4,6,9)); lvl=3; h,r-ind=1,1
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      [3,3]((4,6,7),(2,3,4),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,7),(2,3,4),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,9),(3,5,7),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(4,6,9),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,5),(4,6,7),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,5),(4,5,7),(2,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((4,5,7),(5,6,9),(3,4,6),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,13),(3,4,6),(5,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,7),(7,9,13),(5,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,4),(4,5,7),(7,9,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,4),(7,9,13),(3,4,6)); lvl=5; h,r-ind=1,1
    [4,3]((3,4,5),(1,1,1),(1,0,0),(5,6,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,2,3),(8,9,12),(1,1,1),(1,0,0)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,3,4),(1,1,1),(8,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,3),(3,3,4),(8,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((3,3,4),(1,0,0),(1,1,1)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,3),(3,3,4),(1,0,0)); lvl=5; h,r-ind=1,1
      [4,3]((3,4,5),(8,9,12),(5,6,8),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,9),(8,9,12),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,5),(6,7,9),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,9),(1,1,1),(8,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,5),(6,7,9),(1,1,1)); lvl=5; h,r-ind=1,1
      [4,3]((4,5,7),(2,2,3),(8,9,12),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(8,9,12),(7,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,8),(8,9,12),(7,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,7),(5,6,8),(7,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,7),(2,2,3),(7,8,11)); lvl=5; h,r-ind=1,1
      [3,3]((5,6,9),(4,5,7),(2,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,5),(4,5,7),(5,6,8)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,3),(3,4,5),(4,6,7),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(4,6,7),(5,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,3),(4,6,7),(5,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(5,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(5,7,8)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(3,5,6),(2,3,3),(4,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(4,6,7),(5,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,6),(4,6,7),(5,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(3,5,6),(5,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(5,8,9)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,5),(1,2,2),(3,5,7),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,9),(3,5,7),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(4,7,9),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(4,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,9),(3,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
  [5,3]((1,0,0),(2,2,5),(4,5,12),(2,3,6),(4,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(4,5,12),(2,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(4,5,12),(3,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,9),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(2,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,9),(1,1,2),(2,3,5),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,13),(2,3,5),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(6,8,13),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,9),(3,4,6),(1,1,2)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,6),(6,8,13),(4,6,9),(2,3,5)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,11),(4,6,9),(2,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((6,8,13),(5,7,11),(2,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,6),(5,7,11),(4,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((6,8,13),(3,4,6),(5,7,11)); lvl=5; h,r-ind=1,1
    [3,3]((1,0,0),(5,6,9),(1,1,2)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=2; h,r-ind=1,1
  [7,3]((3,5,10),(4,5,12),(3,4,10),(2,3,6),(3,5,11),(5,8,19),(4,6,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,9),(4,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,10),(2,3,7),(4,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,15),(3,4,10),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,15),(5,8,19),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,7),(3,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,10),(2,3,6),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,10),(3,5,11),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,19),(3,5,11),(2,3,7)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,10),(1,1,3),(2,3,8),(4,6,15)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,18),(2,3,8),(1,1,3)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,10),(5,7,18),(1,1,3)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,15),(5,7,18),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,10),(4,6,15),(5,7,18)); lvl=3; h,r-ind=1,1
  [4,3]((2,2,5),(4,5,12),(3,4,10),(1,1,3)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((3,4,10),(4,5,12),(5,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,5),(4,5,12),(5,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,2,5),(5,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,10),(5,6,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,5),(1,1,3)); lvl=2; h,r-ind=1,1
```

17.20 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,4,17)); lvl=0; h,r-ind=17,289
  [5,3]((2,4,9),(1,2,7),(2,3,12),(1,1,4),(2,2,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,3),(2,4,11),(2,3,9),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,9),(2,4,11),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,11),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,2,5),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,9),(3,5,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(1,1,3),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(2,3,7),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,5),(2,3,7),(1,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,7),(2,4,11),(2,3,11),(2,3,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,6),(2,3,9),(2,3,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,7),(1,2,6),(2,3,11),(2,3,10)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,11),(2,3,10),(3,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,3,10),(3,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(1,2,6),(3,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(2,3,11),(3,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,11),(1,2,6),(2,3,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,3),(1,1,4),(2,3,11),(2,3,9)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,4),(4,5,17),(2,3,10),(2,3,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,14),(4,5,17),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(3,4,14),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(2,3,11),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(3,4,14),(4,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,4),(4,5,17)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,9),(1,1,3),(4,5,17),(2,3,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,13),(4,5,17),(1,1,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(3,4,13),(1,1,3)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,13),(2,3,10),(4,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(3,4,13),(2,3,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,12),(1,1,4),(2,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,12),(1,2,7),(2,3,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,4),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((0,1,0),(2,4,9),(1,0,0),(2,2,5)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,9),(2,3,7),(2,3,6),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,6),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,6),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(1,2,4),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(2,3,7),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,9),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,5),(2,3,7),(2,3,6),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,6),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,5),(1,1,2),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,5),(2,3,7),(3,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,5),(1,1,2)); lvl=2; h,r-ind=1,1
    [5,3]((1,2,3),(2,4,5),(2,2,3),(2,3,6),(1,1,2)); lvl=2; h,r-ind=1,1
      [4,3]((5,7,11),(3,4,6),(2,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,8),(2,2,3),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(4,5,8),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(5,7,11),(4,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(4,5,8),(2,2,3)); lvl=4; h,r-ind=1,1
      [4,3]((6,9,14),(5,7,11),(2,3,5),(1,1,2)); lvl=3; h,r-ind=1,1
        [3,3]((7,10,16),(1,1,2),(5,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(7,10,16),(5,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((7,10,16),(2,3,5),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(7,10,16),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(2,3,6),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(6,9,14),(5,8,12),(2,3,5)); lvl=3; h,r-ind=1,1
        [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(6,9,14),(7,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(5,8,12),(7,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(2,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
      [6,3]((6,9,14),(5,7,11),(3,4,6),(3,5,7),(5,8,12),(2,3,4)); lvl=3; h,r-ind=1,1
```

```
        [3,3]((2,3,4),(4,6,9),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(4,6,9),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(5,7,11),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,7),(2,3,4),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,12),(3,5,7),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(5,8,12),(4,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,7),(2,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(3,5,7),(5,8,12),(2,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(4,7,10),(3,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(5,8,12),(4,7,10)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(1,0,0),(2,4,5),(2,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,4),(1,1,1),(2,3,3),(2,2,3)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,3),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(2,3,3),(3,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((2,4,5),(2,3,4),(1,2,2),(2,3,3)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(2,3,4),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((2,4,17),(1,0,0),(1,1,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,9),(1,2,7)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,2,8),(1,2,7),(2,3,12)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,17),(1,2,8),(2,3,12)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,8),(1,2,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,17),(0,1,0),(1,2,8)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,17),(2,3,12),(1,1,4)); lvl=1; h,r-ind=1,1
```

17.21 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,5,17)); lvl=0; h,r-ind=17,289
  [3,3]((1,1,3),(1,0,0),(3,4,13)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,17),(6,13,43),(1,0,0),(3,4,13)); lvl=1; h,r-ind=3,3
    [4,3]((5,9,30),(2,3,10),(9,17,56),(3,4,13)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,10),(15,26,86),(4,7,23),(3,4,13)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((4,7,23),(6,10,33),(15,26,86)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(6,10,33),(15,26,86)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,13),(2,3,10),(6,10,33)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,13),(4,7,23),(6,10,33)); lvl=4; h,r-ind=1,1
      [4,3]((5,9,30),(9,16,53),(2,3,10),(15,26,86)); lvl=3; h,r-ind=1,1
        [3,3]((9,16,53),(15,26,86),(11,19,63)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(15,26,86),(11,19,63)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,30),(9,16,53),(11,19,63)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(5,9,30),(11,19,63)); lvl=4; h,r-ind=1,1
      [4,3]((7,13,43),(9,16,53),(15,26,86),(4,7,23)); lvl=3; h,r-ind=1,1
        [3,3]((13,23,76),(15,26,86),(9,16,53)); lvl=4; h,r-ind=1,1
        [3,3]((7,13,43),(13,23,76),(9,16,53)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,23),(7,13,43),(13,23,76)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,23),(13,23,76),(15,26,86)); lvl=4; h,r-ind=1,1
      [3,3]((9,17,56),(7,13,43),(4,7,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,30),(7,13,43),(9,16,53)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,10),(3,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,17),(5,9,30),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,5,17),(2,3,10)); lvl=2; h,r-ind=1,1
    [4,3]((5,9,30),(6,13,43),(4,9,30),(9,17,56)); lvl=2; h,r-ind=3,1
      [4,3]((3,6,20),(4,9,30),(5,10,33),(6,13,43)); lvl=3; h,r-ind=1,1
        [3,3]((4,9,30),(6,13,43),(9,19,63)); lvl=4; h,r-ind=1,1
        [3,3]((5,10,33),(6,13,43),(9,19,63)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,20),(4,9,30),(9,19,63)); lvl=4; h,r-ind=1,1
        [3,3]((5,10,33),(3,6,20),(9,19,63)); lvl=4; h,r-ind=1,1
      [3,3]((7,13,43),(3,6,20),(5,10,33)); lvl=3; h,r-ind=1,1
      [3,3]((9,17,56),(7,13,43),(5,10,33)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,30),(7,13,43),(3,6,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,17),(5,9,30),(4,9,30)); lvl=2; h,r-ind=3,3; optimized-h
  [5,3]((5,11,36),(6,13,43),(1,2,6),(1,1,3),(3,4,13)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,13),(9,17,56),(3,4,13)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,4,13),(1,1,3),(3,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,13),(1,2,6),(1,1,3)); lvl=2; h,r-ind=1,1
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    [3,3]((5,11,36),(2,4,13),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,43),(2,4,13),(9,17,56)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((5,11,36),(6,13,43),(2,4,13)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,17),(2,5,16),(3,8,24)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,17),(3,7,23),(2,5,16)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,17),(3,7,23),(5,11,36),(6,13,43)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,23),(5,11,36),(12,27,89)); lvl=2; h,r-ind=1,1
    [4,3]((4,9,30),(6,13,43),(5,11,36),(12,27,89)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((9,20,66),(5,11,36),(6,13,43)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,30),(9,20,66),(6,13,43)); lvl=3; h,r-ind=1,1
      [3,3]((12,27,89),(9,20,66),(5,11,36)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,30),(12,27,89),(9,20,66)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,17),(4,9,30),(3,7,23),(12,27,89)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,9,30),(12,27,89),(7,16,53)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,23),(12,27,89),(7,16,53)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,17),(3,7,23),(7,16,53)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,17),(4,9,30),(7,16,53)); lvl=3; h,r-ind=1,1
  [5,3]((1,2,6),(1,1,3),(1,1,2),(4,10,17),(2,5,12)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,7),(1,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,7),(1,2,5),(2,4,9),(1,1,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,9),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,4,9),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,7),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,2,5),(3,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(1,2,5),(1,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,7),(1,2,4),(2,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,9),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,4,9),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,7),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(5,11,19),(1,2,4)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((5,11,19),(1,2,4),(4,10,17),(2,5,9)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,12),(6,14,25),(2,5,9),(4,10,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,21),(2,5,9),(6,14,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(5,12,21),(6,14,25)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,21),(4,10,17),(2,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(5,12,21),(4,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,12),(6,14,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(5,11,19),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(6,14,25),(2,5,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(2,4,9),(2,5,10),(2,5,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,14),(2,5,10),(2,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,14),(2,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(3,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(3,7,14),(2,5,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,12),(1,2,5),(2,4,9),(2,5,10)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,20),(1,2,5),(2,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(4,9,20),(2,4,9)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,5,11),(2,5,10),(4,9,20)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((2,5,11),(2,5,12),(4,9,20),(1,2,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,12),(3,7,16),(1,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,20),(3,7,16),(1,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(4,9,20),(3,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(2,5,12),(3,7,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,6),(2,5,12),(1,2,5)); lvl=2; h,r-ind=1,1
  [5,3]((4,10,17),(2,6,9),(2,5,12),(3,8,19),(1,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,18),(3,8,19),(1,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(6,16,31),(3,8,18),(1,3,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,5),(6,17,33),(3,8,16),(6,16,33)); lvl=3; h,r-ind=1,1
        [4,3]((4,11,22),(3,8,16),(6,16,33),(8,22,43)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((6,16,33),(3,8,16),(7,19,38)); lvl=5; h,r-ind=1,1
          [3,3]((8,22,43),(3,8,16),(7,19,38)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,22),(6,16,33),(7,19,38)); lvl=5; h,r-ind=1,1
          [3,3]((8,22,43),(4,11,22),(7,19,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(4,11,22),(8,22,43)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,11,22),(6,17,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(3,8,16),(8,22,43)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,6),(6,17,33),(3,8,18),(6,16,33)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((4,11,22),(3,8,17),(6,16,33)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,22),(9,25,51),(3,8,17)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,3,6),(9,25,51),(3,8,18),(3,8,17)); lvl=4; h,r-ind=1,3
          [3,3]((4,11,23),(3,8,18),(3,8,17)); lvl=5; h,r-ind=1,1
          [3,3]((9,25,51),(4,11,23),(3,8,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,6),(9,25,51),(4,11,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,6),(4,11,23),(3,8,18)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,6),(4,11,22),(6,17,33),(9,25,51)); lvl=4; h,r-ind=1,3
          [3,3]((6,17,33),(5,14,28),(4,11,22)); lvl=5; h,r-ind=1,1
          [3,3]((9,25,51),(5,14,28),(4,11,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,6),(6,17,33),(5,14,28)); lvl=5; h,r-ind=1,1
          [3,3]((9,25,51),(1,3,6),(5,14,28)); lvl=5; h,r-ind=1,1
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      [3,3]((1,3,5),(1,3,6),(6,17,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(6,16,31),(3,8,16)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,10),(2,5,9),(1,3,5),(6,16,31)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,15),(1,3,5),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(3,8,15),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(6,16,31),(3,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((6,16,31),(3,8,15),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(3,8,13),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(3,8,13),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(4,10,17),(3,8,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,18),(2,5,12),(3,8,19)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,10),(6,16,31),(3,8,18),(2,5,12)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,12),(2,5,11),(3,8,18),(6,16,33)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,11),(3,8,17),(7,18,40)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,12),(3,8,18),(3,8,17),(7,18,40)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,8,18),(5,13,29),(3,8,17)); lvl=5; h,r-ind=1,1
          [3,3]((7,18,40),(5,13,29),(3,8,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,12),(7,18,40),(5,13,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,12),(3,8,18),(5,13,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,11),(2,5,12),(7,18,40)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(6,16,33),(3,8,17)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,10),(2,5,11),(3,8,16),(6,16,33)); lvl=3; h,r-ind=1,1
        [3,3]((3,8,16),(5,13,27),(6,16,33)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(5,13,27),(6,16,33)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(3,8,16),(5,13,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(2,5,10),(5,13,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(3,8,16),(6,16,31)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(3,8,24),(3,8,19),(1,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,19),(6,16,43),(1,3,7)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,3,8),(3,8,24),(6,16,43),(1,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,7),(3,8,22),(6,16,43)); lvl=3; h,r-ind=1,1
      [4,3]((6,17,45),(1,3,7),(3,8,22),(6,16,45)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,7),(3,8,22),(8,22,59)); lvl=4; h,r-ind=1,1
        [4,3]((6,16,45),(4,11,30),(3,8,22),(8,22,59)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,11,30),(8,22,59),(7,19,52)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,22),(8,22,59),(7,19,52)); lvl=5; h,r-ind=1,1
          [3,3]((6,16,45),(4,11,30),(7,19,52)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,22),(6,16,45),(7,19,52)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,30),(1,3,7),(8,22,59)); lvl=4; h,r-ind=1,1
        [3,3]((6,17,45),(4,11,30),(1,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(6,17,45),(1,3,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,8),(6,17,45),(3,8,24),(6,16,45)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((4,11,30),(3,8,23),(6,16,45)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,30),(9,25,69),(3,8,23)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,3,8),(3,8,24),(9,25,69),(3,8,23)); lvl=4; h,r-ind=1,3
          [3,3]((4,11,31),(3,8,24),(3,8,23)); lvl=5; h,r-ind=1,1
          [3,3]((9,25,69),(4,11,31),(3,8,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(9,25,69),(4,11,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(4,11,31),(3,8,24)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,8),(6,17,45),(4,11,30),(9,25,69)); lvl=4; h,r-ind=1,3
          [3,3]((6,17,45),(5,14,38),(4,11,30)); lvl=5; h,r-ind=1,1
          [3,3]((9,25,69),(5,14,38),(4,11,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(9,25,69),(5,14,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(6,17,45),(5,14,38)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,8),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(3,8,19),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,6),(1,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,17),(0,1,0),(3,8,24)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(2,6,9),(1,3,6)); lvl=1; h,r-ind=3,3; optimized-h
  [7,3]((3,7,23),(2,5,16),(5,11,36),(3,8,24),(1,2,6),(2,5,12),(3,8,19)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,24),(2,5,15),(2,5,16)); lvl=2; h,r-ind=1,1
    [4,3]((8,19,61),(3,7,22),(2,5,15),(2,5,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,7,22),(5,12,38),(2,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,16),(5,12,38),(2,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((8,19,61),(2,5,16),(5,12,38)); lvl=3; h,r-ind=1,1
      [3,3]((8,19,61),(3,7,22),(5,12,38)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,23),(8,19,61),(2,5,16)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,23),(8,19,61),(4,9,29),(3,7,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((8,19,61),(6,14,45),(3,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,29),(6,14,45),(3,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,23),(4,9,29),(6,14,45)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,23),(8,19,61),(6,14,45)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,23),(4,9,29),(5,11,36)); lvl=2; h,r-ind=1,1
    [4,3]((4,9,29),(3,7,22),(4,9,27),(1,2,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,7,22),(4,9,27),(4,9,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(4,9,27),(4,9,28)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,29),(1,2,6),(4,9,28)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,29),(3,7,22),(4,9,28)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,29),(5,11,36),(1,2,6)); lvl=2; h,r-ind=1,1
    [4,3]((3,8,24),(2,5,15),(6,16,43),(2,5,14)); lvl=2; h,r-ind=1,1
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      [3,3]((2,5,14),(2,5,15),(9,23,66)); lvl=3; h,r-ind=1,1
      [4,3]((3,8,24),(6,16,45),(2,5,15),(9,23,66)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,5,15),(12,31,90),(5,13,37),(9,23,66)); lvl=4; h,r-ind=1,3
          [3,3]((5,13,37),(12,31,90),(7,18,52)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(12,31,90),(7,18,52)); lvl=5; h,r-ind=1,1
          [3,3]((9,23,66),(5,13,37),(7,18,52)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(9,23,66),(7,18,52)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,23),(12,31,90),(5,13,37)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,8,23),(6,16,45),(5,13,37)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,15),(3,8,24),(3,8,23),(12,31,90)); lvl=4; h,r-ind=1,3
          [3,3]((5,13,38),(3,8,23),(3,8,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(5,13,38),(3,8,24)); lvl=5; h,r-ind=1,1
          [3,3]((12,31,90),(5,13,38),(3,8,23)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(12,31,90),(5,13,38)); lvl=5; h,r-ind=1,1
      [4,3]((6,16,45),(3,8,22),(2,5,14),(9,23,66)); lvl=3; h,r-ind=1,1
        [3,3]((10,26,73),(2,5,14),(3,8,22)); lvl=4; h,r-ind=1,1
        [4,3]((6,16,45),(5,13,37),(10,26,73),(3,8,22)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,13,37),(10,26,73),(8,21,59)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,22),(10,26,73),(8,21,59)); lvl=5; h,r-ind=1,1
          [3,3]((6,16,45),(5,13,37),(8,21,59)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,22),(6,16,45),(8,21,59)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,37),(10,26,73),(2,5,14)); lvl=4; h,r-ind=1,1
        [3,3]((9,23,66),(5,13,37),(2,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,22),(6,16,43),(2,5,14)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,22),(4,9,27),(2,5,15),(2,5,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,15),(2,5,14),(3,7,21)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,27),(2,5,14),(3,7,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,22),(4,9,27),(3,7,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,22),(2,5,15),(3,7,21)); lvl=3; h,r-ind=1,1
    [4,3]((3,8,19),(2,5,13),(6,16,43),(2,5,14)); lvl=2; h,r-ind=1,1
      [3,3]((9,23,61),(2,5,13),(2,5,14)); lvl=3; h,r-ind=1,1
      [4,3]((3,8,21),(6,16,41),(9,23,61),(2,5,14)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,14),(5,13,34),(9,23,61)); lvl=4; h,r-ind=1,1
        [3,3]((10,26,69),(2,5,14),(5,13,34)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,21),(10,26,69),(2,5,14)); lvl=4; h,r-ind=1,1
        [4,3]((3,8,21),(10,26,69),(5,13,34),(6,16,41)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((10,26,69),(8,21,55),(5,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((6,16,41),(8,21,55),(5,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,21),(6,16,41),(8,21,55)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,21),(10,26,69),(8,21,55)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,21),(6,16,43),(2,5,14)); lvl=3; h,r-ind=1,1
      [4,3]((3,8,19),(6,16,41),(9,23,61),(2,5,13)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,5,13),(12,31,80),(5,13,34),(9,23,61)); lvl=4; h,r-ind=1,3
          [3,3]((7,18,47),(12,31,80),(5,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((9,23,61),(7,18,47),(5,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,13),(9,23,61),(7,18,47)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,13),(7,18,47),(12,31,80)); lvl=5; h,r-ind=1,1
        [4,3]((3,8,20),(3,8,19),(2,5,13),(12,31,80)); lvl=4; h,r-ind=1,3
          [3,3]((3,8,19),(5,13,33),(2,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((12,31,80),(5,13,33),(2,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,20),(12,31,80),(5,13,33)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,20),(3,8,19),(5,13,33)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,20),(12,31,80),(5,13,34)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,8,20),(6,16,41),(5,13,34)); lvl=4; h,r-ind=1,1
    [4,3]((4,9,27),(1,2,6),(2,5,13),(2,5,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,6),(2,5,13),(3,7,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,14),(2,5,13),(3,7,20)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,27),(2,5,14),(3,7,20)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,27),(1,2,6),(3,7,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,12),(3,8,19),(2,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(2,5,12),(2,5,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((0,1,0),(1,1,2),(4,10,17),(2,6,9),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((3,8,12),(1,3,4),(3,8,13),(2,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((4,11,17),(1,3,4),(2,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,13),(4,11,17),(2,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,12),(4,11,17),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,13),(3,8,12),(4,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,4),(2,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,5),(2,5,7),(0,1,0),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(0,1,0),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(2,5,7),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(2,5,6),(1,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,5),(1,2,2),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,0,0),(0,1,0)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((1,2,3),(2,3,4),(2,5,5),(1,2,2),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
```

```
    [4,3]((1,2,3),(2,5,7),(5,11,14),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(4,9,12),(3,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,14),(4,9,12),(3,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(4,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,14),(1,2,3),(4,9,12)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,2),(5,11,13),(6,13,16),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(6,13,16),(7,15,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,16),(7,15,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(5,11,13),(7,15,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(7,15,18)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(6,13,16),(5,11,14),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(6,13,16),(7,15,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,16),(7,15,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(7,15,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,14),(7,15,19)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,2),(5,11,13),(3,7,8),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,10),(5,11,13),(3,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,5),(4,9,10),(3,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(4,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(4,9,10),(5,11,13)); lvl=4; h,r-ind=1,1
    [6,3]((5,11,13),(6,13,16),(5,11,14),(3,7,8),(3,7,9),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,11),(2,5,6),(3,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,14),(4,9,11),(3,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((6,13,16),(5,11,14),(4,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,13),(6,13,16),(4,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,8),(4,9,11),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,13),(3,7,8),(4,9,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,7),(3,7,9),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,8),(2,5,5),(2,5,6)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,7),(3,8,12),(4,10,15),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((5,13,19),(3,8,12),(4,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,7),(5,13,19),(4,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,7),(5,13,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(5,13,19),(3,8,12)); lvl=3; h,r-ind=1,1
[6,3]((3,8,12),(5,11,19),(3,7,11),(4,10,15),(3,8,13),(4,10,17)); lvl=2; h,r-ind=1,1
    [4,3]((4,9,15),(3,7,12),(5,11,19),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((7,16,27),(3,7,12),(5,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,15),(7,16,27),(5,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(4,9,15),(7,16,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(7,16,27),(3,7,12)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,11),(4,9,15),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((4,10,15),(3,7,11),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,12),(4,10,15),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((4,10,17),(3,7,12),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,13),(4,10,17),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,12),(3,8,13),(2,5,8)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,2),(1,2,3),(5,11,19),(3,7,11)); lvl=2; h,r-ind=1,1
    [4,3]((8,17,28),(5,11,18),(3,7,11),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,21),(5,11,18),(3,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(6,13,21),(3,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((8,17,28),(1,2,3),(6,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((8,17,28),(6,13,21),(5,11,18)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,2),(2,4,7),(8,17,28),(1,2,3)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,4,7),(3,6,10),(8,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(3,6,10),(8,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(3,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,4,7),(3,6,10)); lvl=4; h,r-ind=1,1
    [4,3]((4,9,15),(2,4,7),(8,17,28),(5,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(7,15,25),(8,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,18),(7,15,25),(8,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,18),(4,9,15),(7,15,25)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,15),(2,4,7),(7,15,25)); lvl=4; h,r-ind=1,1
    [3,3]((4,9,15),(5,11,19),(2,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,15),(5,11,18),(3,7,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=2; h,r-ind=1,1
  [4,3]((2,2,3),(2,3,4),(1,2,2),(1,0,0)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(5,6,8),(1,2,2),(1,1,1)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,5),(1,1,1),(5,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,5),(1,2,2),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(1,2,2)); lvl=4; h,r-ind=1,1
    [4,3]((2,2,3),(1,0,0),(5,6,8),(1,1,1)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,8),(1,1,1),(3,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(5,6,8),(3,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,3),(2,5,7),(3,7,11),(4,10,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(4,10,15),(5,12,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,11),(4,10,15),(5,12,18)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,2,3),(2,5,7),(5,12,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,11),(1,2,3),(5,12,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(1,2,3),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
```

17.22 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,6,17)); lvl=0; h,r-ind=17,289
  [3,3]((2,3,8),(1,0,0),(2,4,11)); lvl=1; h,r-ind=1,1
  [3,3]((2,6,17),(1,0,0),(2,4,11)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,3,8),(1,2,5),(2,3,8),(3,8,22),(2,4,11)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,8),(2,4,11),(5,10,27)); lvl=2; h,r-ind=1,1
    [4,3]((6,13,35),(3,7,19),(2,4,11),(5,10,27)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,11),(3,7,19),(8,17,46)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,35),(3,7,19),(8,17,46)); lvl=3; h,r-ind=1,1
      [3,3]((5,10,27),(6,13,35),(8,17,46)); lvl=3; h,r-ind=1,1
      [3,3]((5,10,27),(2,4,11),(8,17,46)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,8),(4,9,24),(6,13,35),(3,7,19)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,24),(6,13,35),(7,16,43)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,19),(6,13,35),(7,16,43)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(4,9,24),(7,16,43)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,19),(1,3,8),(7,16,43)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(1,3,8),(4,9,24)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,22),(3,7,19),(2,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,8),(3,8,22),(3,7,19)); lvl=2; h,r-ind=1,1
    [5,3]((1,2,5),(4,9,24),(6,13,35),(2,3,8),(5,10,27)); lvl=2; h,r-ind=1,1
      [3,3]((3,6,16),(6,13,35),(5,10,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(3,6,16),(5,10,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,8),(3,6,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,24),(3,6,16),(6,13,35)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,24),(1,2,5),(3,6,16)); lvl=3; h,r-ind=1,1
  [3,3]((2,6,17),(3,8,22),(2,4,11)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,6,17),(1,3,8),(3,8,22)); lvl=1; h,r-ind=1,1
  [5,3]((1,2,5),(2,3,8),(2,6,9),(1,3,6),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,5),(2,3,6),(2,3,7),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,6),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,6),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,7),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(1,3,6),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,6),(4,7,13),(3,6,11),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((5,9,17),(3,6,11),(4,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(5,9,17),(4,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,6),(5,9,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(5,9,17),(3,6,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,6),(1,3,5),(3,6,11),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(3,6,11),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,6,11),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,2,4),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,3,5),(2,5,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,6),(1,1,2),(3,5,9),(4,7,13)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,15),(3,5,9),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(5,8,15),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,13),(2,3,6),(5,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,13),(5,8,15),(3,5,9)); lvl=3; h,r-ind=1,1
    [5,3]((1,3,5),(3,5,9),(4,7,13),(3,6,11),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,6,11),(2,4,7),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,7),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(1,2,3),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,13),(3,6,11),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(4,7,13),(2,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(1,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(5,7,17),(2,3,7),(4,6,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,17),(6,9,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,15),(5,7,17),(6,9,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,7),(6,9,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,15),(1,2,5),(6,9,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,8),(4,6,15)); lvl=2; h,r-ind=1,1
    [5,3]((5,7,17),(3,3,7),(1,0,0),(2,3,8),(4,6,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,5),(1,0,0),(3,3,7)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,12),(2,2,5),(5,6,15),(3,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((5,6,15),(6,7,17),(2,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,7),(6,7,17),(2,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,12),(3,3,7),(6,7,17)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((4,5,12),(5,6,15),(6,7,17)); lvl=4; h,r-ind=1,1
    [4,3]((5,7,17),(4,5,12),(3,4,10),(5,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(7,9,22),(5,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(7,9,22),(5,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,17),(3,4,10),(7,9,22)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,17),(4,5,12),(7,9,22)); lvl=4; h,r-ind=1,1
    [3,3]((5,7,17),(3,4,10),(4,6,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,5),(5,6,15),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,10),(5,6,15),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,10),(4,6,15),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,5),(1,0,0),(2,3,8)); lvl=3; h,r-ind=1,1
  [5,3]((2,3,6),(5,7,17),(2,3,7),(1,1,2),(3,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((8,10,23),(5,6,14),(1,1,2),(3,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,16),(3,3,7),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,23),(6,7,16),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,16),(5,6,14),(3,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,23),(6,7,16),(5,6,14)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,12),(5,6,14),(3,3,7)); lvl=3; h,r-ind=1,1
    [6,3]((8,10,23),(10,13,30),(6,8,19),(4,5,12),(5,6,14),(9,12,28)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,21),(4,5,12),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,21),(8,10,23),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,21),(10,13,30),(8,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,21),(9,12,28),(10,13,30)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,19),(7,9,21),(4,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,19),(7,9,21),(9,12,28)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,7),(3,4,9),(10,13,30),(9,12,28)); lvl=3; h,r-ind=1,1
      [3,3]((12,16,37),(10,13,30),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(12,16,37),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((9,12,28),(12,16,37),(10,13,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(9,12,28),(12,16,37)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,7),(3,4,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,7),(5,7,17),(6,8,19),(9,12,28)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,17),(8,11,26),(6,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((9,12,28),(8,11,26),(6,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(9,12,28),(8,11,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,17),(8,11,26)); lvl=4; h,r-ind=1,1
    [3,3]((5,7,17),(6,8,19),(4,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,9),(8,10,23),(10,13,30),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((11,14,32),(8,10,23),(10,13,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(11,14,32),(10,13,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(11,14,32),(8,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(1,1,2),(11,14,32)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,6),(3,4,9),(1,1,2)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,2),(3,3,7),(1,0,0)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,2),(3,5,9),(1,2,3),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(3,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(3,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,0,0),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(2,3,5)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(2,6,9),(1,0,0)); lvl=1; h,r-ind=9,27; optimized-h
[3,3]((0,1,0),(2,6,9),(1,3,6)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((1,3,8),(1,2,5),(1,3,6)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((0,1,0),(1,3,8),(1,3,6)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((2,6,17),(0,1,0),(1,3,8)); lvl=1; h,r-ind=1,1
```

17.23 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,7,17)); lvl=0; h,r-ind=17,289
  [5,3]((1,2,4),(2,5,10),(1,3,4),(1,2,3),(1,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,9),(2,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,9),(2,5,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(2,5,9),(4,10,17),(3,7,12)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,9),(4,10,17),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(4,10,17),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,12),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(5,12,21)); lvl=3; h,r-ind=1,1
    [4,3]((3,8,13),(1,3,5),(2,5,9),(4,10,17)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,9),(1,3,5),(5,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,13),(1,3,5),(5,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,17),(3,8,13),(5,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,17),(2,5,9),(5,13,22)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,13),(1,3,4),(1,3,5)); lvl=2; h,r-ind=1,1
    [5,3]((1,2,3),(3,8,13),(1,3,4),(4,10,17),(3,7,12)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,8),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(2,5,8),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,17),(3,7,12),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,13),(1,3,4),(2,5,8)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((3,8,13),(4,10,17),(2,5,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,4),(1,2,3),(3,7,12)); lvl=2; h,r-ind=1,1
[5,3]((2,7,11),(2,7,16),(1,3,7),(2,5,10),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,6),(2,7,16),(4,14,27)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,7,11),(1,3,6),(4,14,27)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,7,11),(1,3,5),(1,3,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,7),(1,3,6),(2,7,16)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,7),(1,3,6),(2,5,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,5),(1,3,6),(2,5,10)); lvl=2; h,r-ind=1,1
[3,3]((2,7,17),(2,7,16),(1,3,7)); lvl=1; h,r-ind=1,1
[3,3]((0,1,0),(2,7,17),(2,7,16)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((1,0,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((1,3,7),(2,4,9),(1,2,4),(2,5,10)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,9),(2,5,11),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,10),(2,5,11),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,7),(2,5,10),(2,5,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,7),(2,4,9),(2,5,11)); lvl=2; h,r-ind=1,1
[4,3]((1,3,7),(2,3,7),(3,8,19),(2,4,9)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,14),(2,3,7),(3,8,19)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,7),(3,6,14),(3,8,19)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,7),(2,4,9),(3,6,14)); lvl=2; h,r-ind=1,1
  [3,3]((2,4,9),(3,6,14),(2,3,7)); lvl=2; h,r-ind=1,1
[4,3]((1,0,0),(2,7,17),(2,3,7),(3,8,19)); lvl=1; h,r-ind=1,2
  [3,3]((2,5,12),(3,8,19),(2,7,17)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,5,12),(2,7,17)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,12),(2,3,7),(3,8,19)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,5,12),(2,3,7)); lvl=2; h,r-ind=1,1
[3,3]((2,7,17),(1,3,7),(3,8,19)); lvl=1; h,r-ind=1,1
[4,3]((1,0,0),(2,3,7),(2,4,9),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,7),(2,4,9),(5,8,18)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,4),(1,1,2),(2,4,9),(5,8,18)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((1,1,2),(3,5,11),(5,8,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(3,5,11),(5,8,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,4,9),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,1,2),(3,5,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,2),(2,3,7),(5,8,18)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((1,1,2),(3,4,9),(5,8,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,9),(5,8,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,7),(3,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(3,4,9)); lvl=3; h,r-ind=1,1
[5,3]((2,7,11),(1,4,5),(2,8,9),(1,3,4),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((2,8,9),(3,11,14),(1,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((4,14,19),(2,7,10),(3,11,14),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,10),(5,18,24)); lvl=3; h,r-ind=1,1
    [3,3]((4,14,19),(2,7,10),(5,18,24)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,14),(4,14,19),(5,18,24)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,14),(1,4,5),(5,18,24)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,11),(2,7,10),(1,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,4),(4,14,19),(3,10,14),(3,11,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,14),(9,31,42),(4,14,19)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,9),(3,11,14),(9,31,42),(4,14,19)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,11,14),(6,21,28),(4,14,19)); lvl=4; h,r-ind=1,1
      [3,3]((9,31,42),(6,21,28),(4,14,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,9),(3,11,14),(6,21,28)); lvl=4; h,r-ind=1,1
      [3,3]((9,31,42),(2,7,9),(6,21,28)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,4),(2,7,9),(3,10,14),(9,31,42)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,17,23),(9,31,42),(2,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(5,17,23),(2,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((5,17,23),(3,10,14),(9,31,42)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(5,17,23),(3,10,14)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,5),(4,14,19),(3,10,14),(2,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,14),(4,14,19),(5,17,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,10),(4,14,19),(5,17,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,7,10),(5,17,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(3,10,14),(5,17,24)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,11),(1,3,5),(2,7,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,4),(2,8,9),(3,11,14)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,3,5),(1,3,4),(3,10,14)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(2,7,11),(2,7,16),(1,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,6),(2,8,13),(4,14,27),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,13),(4,14,27),(3,11,20)); lvl=3; h,r-ind=1,1
    [5,3]((2,7,13),(3,11,19),(9,34,57),(5,19,32),(3,11,20)); lvl=3; h,r-ind=1,1
      [4,3]((4,15,26),(7,26,45),(5,19,32),(8,30,51)); lvl=4; h,r-ind=1,1
        [3,3]((12,45,77),(8,30,51),(7,26,45)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,26),(12,45,77),(7,26,45)); lvl=5; h,r-ind=1,1
        [3,3]((5,19,32),(12,45,77),(8,30,51)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,26),(5,19,32),(12,45,77)); lvl=5; h,r-ind=1,1
      [3,3]((9,34,57),(5,19,32),(8,30,51)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,19),(9,34,57),(8,30,51)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,19),(7,26,45),(12,44,77),(8,30,51)); lvl=4; h,r-ind=1,2; alert-r-inc
```

```
          [3,3]((7,26,45),(12,44,77),(10,37,64)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,19),(12,44,77),(10,37,64)); lvl=5; h,r-ind=1,1
          [3,3]((8,30,51),(7,26,45),(10,37,64)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,19),(8,30,51),(10,37,64)); lvl=5; h,r-ind=1,1
        [5,3]((2,7,13),(4,15,26),(3,11,20),(7,26,45),(12,44,77)); lvl=4; h,r-ind=1,1
          [3,3]((6,22,39),(2,7,13),(3,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,26),(6,22,39),(3,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,26),(13,48,84),(7,26,45)); lvl=5; h,r-ind=1,1
          [3,3]((15,55,97),(6,22,39),(2,7,13)); lvl=5; h,r-ind=1,1
          [3,3]((15,55,97),(9,33,58),(2,7,13)); lvl=5; h,r-ind=1,1
          [3,3]((9,33,58),(12,44,77),(2,7,13)); lvl=5; h,r-ind=1,1
          [3,3]((7,26,45),(9,33,58),(12,44,77)); lvl=5; h,r-ind=1,1
          [4,3]((13,48,84),(15,55,97),(7,26,45),(9,33,58)); lvl=5; h,r-ind=1,1
            [3,3]((15,55,97),(9,33,58),(22,81,142)); lvl=6; h,r-ind=1,1
            [3,3]((7,26,45),(9,33,58),(22,81,142)); lvl=6; h,r-ind=1,1
            [3,3]((13,48,84),(7,26,45),(22,81,142)); lvl=6; h,r-ind=1,1
            [3,3]((13,48,84),(15,55,97),(22,81,142)); lvl=6; h,r-ind=1,1
          [4,3]((4,15,26),(13,48,84),(15,55,97),(6,22,39)); lvl=5; h,r-ind=1,1
            [3,3]((19,70,123),(15,55,97),(13,48,84)); lvl=6; h,r-ind=1,1
            [3,3]((4,15,26),(19,70,123),(13,48,84)); lvl=6; h,r-ind=1,1
            [3,3]((6,22,39),(19,70,123),(15,55,97)); lvl=6; h,r-ind=1,1
            [3,3]((4,15,26),(6,22,39),(19,70,123)); lvl=6; h,r-ind=1,1
        [3,3]((3,11,19),(2,7,13),(12,44,77)); lvl=4; h,r-ind=1,1
      [3,3]((5,19,32),(2,8,13),(3,11,20)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,4,6),(9,34,57),(5,19,32),(2,8,13)); lvl=3; h,r-ind=1,1
        [3,3]((6,23,38),(9,34,57),(5,19,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,13),(6,23,38),(5,19,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(2,8,13),(6,23,38)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(6,23,38),(9,34,57)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,13),(4,14,25),(3,11,19)); lvl=3; h,r-ind=1,1
      [5,3]((1,4,6),(2,7,11),(4,14,25),(3,11,19),(9,34,57)); lvl=3; h,r-ind=1,1
        [5,3]((5,18,31),(9,33,56),(2,7,12),(7,26,43),(10,37,62)); lvl=4; h,r-ind=1,1
          [3,3]((7,26,43),(6,22,37),(10,37,62)); lvl=5; h,r-ind=1,1
          [3,3]((9,33,56),(6,22,37),(10,37,62)); lvl=5; h,r-ind=1,1
          [3,3]((5,18,31),(9,33,56),(6,22,37)); lvl=5; h,r-ind=1,1
          [3,3]((7,26,43),(6,22,37),(2,7,12)); lvl=5; h,r-ind=1,1
          [3,3]((5,18,31),(6,22,37),(2,7,12)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,6),(4,15,25),(7,26,43),(10,37,62)); lvl=4; h,r-ind=1,1
          [3,3]((4,15,25),(10,37,62),(11,41,68)); lvl=5; h,r-ind=1,1
          [3,3]((7,26,43),(10,37,62),(11,41,68)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(4,15,25),(11,41,68)); lvl=5; h,r-ind=1,1
          [3,3]((7,26,43),(1,4,6),(11,41,68)); lvl=5; h,r-ind=1,1
        [4,3]((4,15,25),(3,11,19),(9,33,56),(10,37,62)); lvl=4; h,r-ind=1,1
          [3,3]((13,48,81),(9,33,56),(3,11,19)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,25),(13,48,81),(3,11,19)); lvl=5; h,r-ind=1,1
          [3,3]((10,37,62),(4,15,25),(13,48,81)); lvl=5; h,r-ind=1,1
          [3,3]((10,37,62),(13,48,81),(9,33,56)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,25),(9,34,57),(3,11,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(4,15,25),(9,34,57)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,25),(5,18,31),(2,7,12)); lvl=4; h,r-ind=1,1
        [4,3]((3,11,19),(4,14,25),(5,18,31),(9,33,56)); lvl=4; h,r-ind=1,1
          [3,3]((4,14,25),(5,18,31),(8,29,50)); lvl=5; h,r-ind=1,1
          [3,3]((9,33,56),(5,18,31),(8,29,50)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,19),(9,33,56),(8,29,50)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,19),(4,14,25),(8,29,50)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,6),(2,7,11),(2,7,12),(7,26,43)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((3,11,18),(2,7,12),(2,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(3,11,18),(2,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,18),(7,26,43),(2,7,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(3,11,18),(7,26,43)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,6),(1,4,5),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,6),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,13),(1,4,8),(2,7,16),(4,14,27)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,7),(2,7,14),(4,14,29)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,7),(1,4,8),(2,7,16),(4,14,29)); lvl=3; h,r-ind=1,1
        [4,3]((2,7,15),(4,15,30),(1,4,8),(2,7,16)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,11,23),(1,4,8),(4,15,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,15),(3,11,23),(4,15,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,16),(3,11,23),(1,4,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,15),(2,7,16),(3,11,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(2,7,15),(4,15,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,7,15),(4,14,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(4,15,30),(1,4,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,20),(1,4,7),(2,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,27),(3,11,20),(2,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,13),(3,11,20),(1,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,8,13),(1,4,8)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,4,6),(2,8,13)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,5),(2,8,9)); lvl=1; h,r-ind=1,1
  [5,3]((1,0,0),(0,1,0),(2,8,9),(1,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((0,1,0),(1,4,4),(2,5,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((4,10,13),(1,3,4),(1,4,4),(2,5,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,3,4),(1,3,3),(1,4,4),(5,14,17)); lvl=3; h,r-ind=1,3
        [3,3]((1,4,4),(1,3,3),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((5,14,17),(1,3,3),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(5,14,17),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,4),(2,6,7)); lvl=4; h,r-ind=1,1
      [4,3]((4,10,13),(2,5,6),(1,3,4),(5,14,17)); lvl=3; h,r-ind=1,3
        [3,3]((3,8,10),(2,5,6),(5,14,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,10),(5,14,17)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,13),(1,3,4),(3,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,13),(3,8,10),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(1,3,3),(5,14,17)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,5,6),(2,5,5),(1,3,3)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(4,10,13),(1,2,3),(2,5,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((2,5,6),(5,11,14),(1,2,3),(4,10,13)); lvl=3; h,r-ind=1,3
        [3,3]((3,7,9),(1,2,3),(5,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(3,7,9),(5,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,13),(3,7,9),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(4,10,13),(3,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(1,2,2),(5,11,14)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,5,6),(2,5,5),(1,2,2)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(1,2,2),(5,11,14),(1,2,3)); lvl=3; h,r-ind=1,3
        [3,3]((2,4,5),(1,2,2),(5,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(1,2,3),(5,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(2,4,5),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(2,4,5),(1,2,2)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,10,13),(1,2,3),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,9),(1,3,4),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(0,1,0),(2,5,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,9),(0,1,0),(1,4,4)); lvl=2; h,r-ind=1,1
```

17.24 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,8,17)); lvl=0; h,r-ind=17,289
  [5,3]((2,5,10),(2,8,9),(1,4,5),(2,2,3),(1,1,2)); lvl=1; h,r-ind=3,1
    [3,3]((1,2,3),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(1,2,3),(3,7,11),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,11),(2,4,7),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,4,7),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,1,2),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,11),(2,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,7),(1,2,3),(3,7,11),(4,10,15)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,18),(3,7,11),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(5,12,18),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,15),(5,12,18),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(4,10,15),(5,12,18)); lvl=3; h,r-ind=1,1
    [5,3]((1,3,5),(3,8,12),(1,2,4),(3,7,11),(4,10,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,8),(3,7,11),(4,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,12),(2,5,8),(4,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,12),(1,3,5),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(1,2,4),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,8),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(2,5,7),(3,8,12),(4,10,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(4,10,15),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,12),(4,10,15),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,12),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(5,13,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,4),(2,5,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(1,4,5),(1,3,5),(3,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((2,6,9),(1,3,5),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,12),(2,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,12),(2,6,9),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,7),(2,5,6),(1,2,3),(2,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,3),(2,2,3),(4,7,9),(5,11,15)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,6,8),(4,7,9),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,8),(7,13,18),(2,3,4)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,3),(2,2,3),(7,13,18),(2,3,4)); lvl=4; h,r-ind=1,3
          [3,3]((3,5,7),(2,3,4),(2,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(3,5,7),(2,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((7,13,18),(3,5,7),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(7,13,18),(3,5,7)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,3),(5,11,15),(3,6,8),(7,13,18)); lvl=4; h,r-ind=1,3
          [3,3]((4,8,11),(5,11,15),(3,6,8)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((7,13,18),(4,8,11),(3,6,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(7,13,18),(4,8,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(4,8,11),(5,11,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,6),(4,7,9),(5,11,15)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,5,7),(2,5,6),(5,11,15)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,5,7),(1,2,3),(5,11,15)); lvl=3; h,r-ind=1,1
    [4,3]((2,8,9),(1,3,4),(2,5,7),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,14,18),(2,5,7),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((2,8,9),(4,13,15),(5,14,18),(1,3,4)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,3,4),(7,22,27),(3,9,11),(5,14,18)); lvl=4; h,r-ind=1,3
          [3,3]((4,12,15),(3,9,11),(7,22,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(4,12,15),(7,22,27)); lvl=5; h,r-ind=1,1
          [3,3]((5,14,18),(4,12,15),(3,9,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(5,14,18),(4,12,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,8),(7,22,27),(3,9,11)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((4,13,15),(2,7,8),(3,9,11)); lvl=4; h,r-ind=1,1
        [4,3]((2,8,9),(1,3,4),(2,7,8),(7,22,27)); lvl=4; h,r-ind=1,3
          [3,3]((1,3,4),(3,10,12),(7,22,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(3,10,12),(7,22,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,9),(2,7,8),(3,10,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,9),(1,3,4),(3,10,12)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,6),(4,13,15),(5,14,18)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,5,6),(5,14,18),(2,5,7)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,8,9),(1,3,4),(1,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,8,17),(2,5,10),(1,1,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(2,8,17),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,8),(2,5,10),(1,4,5)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((2,8,17),(1,4,8),(2,5,10)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,0,0),(0,1,0),(2,8,9),(2,2,3)); lvl=1; h,r-ind=3,3
    [3,3]((1,4,4),(0,1,0),(2,8,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,5),(2,5,6),(1,4,4),(2,8,9)); lvl=2; h,r-ind=3,1
      [4,3]((1,3,3),(1,4,4),(2,8,9),(4,13,15)); lvl=3; h,r-ind=1,1
        [4,3]((2,7,8),(1,4,4),(2,8,9),(4,14,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,4,4),(2,8,9),(3,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(2,8,9),(3,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,15),(1,4,4),(3,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(4,14,15),(3,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(4,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(4,13,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,4,4),(4,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(1,3,3),(4,13,15)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((2,5,6),(2,5,5),(1,3,3)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,5),(2,2,3),(2,5,6),(1,1,1)); lvl=2; h,r-ind=3,1
      [4,3]((1,2,2),(1,1,1),(2,2,3),(4,7,9)); lvl=3; h,r-ind=1,1
        [4,3]((4,6,7),(2,3,4),(2,2,3),(1,1,1)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,7),(2,3,4),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(4,6,7),(3,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(4,6,7),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(4,6,7),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(4,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(4,7,9)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((2,5,5),(1,2,2),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(1,4,4),(0,1,0)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((2,5,5),(1,1,1),(0,1,0)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,8,9),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,8),(0,1,0),(1,4,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,8,17),(1,4,8),(0,1,0)); lvl=1; h,r-ind=1,1
```

17.25 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,9,17)); lvl=0; h,r-ind=17,289
  [3,3]((2,7,13),(4,9,16),(1,0,0)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,4,4),(4,9,16),(1,0,0)); lvl=1; h,r-ind=28,28; alert-h-inc
    [4,3]((1,3,4),(2,5,8),(1,2,3),(3,6,10)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,11),(1,2,3),(3,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(3,7,11),(3,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,7,11),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(1,3,4),(3,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(1,2,3),(3,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,7),(2,3,5),(3,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,4,7),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,16),(1,0,0),(2,4,7)); lvl=2; h,r-ind=1,1
```

```
  [4,3]((4,9,16),(2,4,7),(2,5,8),(3,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,22),(2,4,7),(3,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(6,13,22),(3,6,10)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,7,12),(2,5,8),(6,13,22)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((3,7,12),(4,9,16),(6,13,22),(2,4,7)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,11,19),(4,9,16),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((6,13,22),(5,11,19),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,12),(6,13,22),(5,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,12),(5,11,19),(4,9,16)); lvl=4; h,r-ind=1,1
  [4,3]((1,2,2),(1,4,4),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,4),(1,3,3),(1,3,4),(3,8,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,3,3),(3,8,10),(2,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(2,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,4),(2,6,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,4),(3,8,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(1,2,3),(1,3,3),(3,8,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,3),(2,5,6),(3,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,6),(3,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(1,2,3),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(2,5,6)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,5),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,6),(1,1,1),(1,2,2),(1,2,3)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(1,2,2),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(1,2,3),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(1,1,1),(2,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,5),(3,4,6),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,5),(3,4,6)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(3,4,6),(1,1,1)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[3,3]((0,1,0),(1,4,4),(1,0,0)); lvl=1; h,r-ind=4,4; optimized-h
[3,3]((2,9,17),(2,7,13),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
[6,3]((2,9,16),(5,22,40),(1,4,4),(2,9,9),(2,7,13),(4,9,16)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,4),(2,7,10),(1,3,4),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,10),(2,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,10),(2,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(1,4,5),(2,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(1,3,4),(2,7,9)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,9),(1,4,4),(1,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,6),(2,7,10),(2,7,11),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,11),(2,7,10),(3,11,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,10),(3,11,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,4,5),(3,11,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,11),(3,11,16)); lvl=3; h,r-ind=1,1
  [4,3]((2,9,9),(4,18,25),(1,4,6),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(2,9,12),(4,18,25)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(2,9,11),(6,25,33),(2,9,12)); lvl=3; h,r-ind=1,1
      [4,3]((3,13,17),(2,9,11),(4,17,22),(8,34,45)); lvl=4; h,r-ind=1,1
        [3,3]((7,30,39),(4,17,22),(2,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,17),(7,30,39),(2,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,17),(8,34,45),(7,30,39)); lvl=5; h,r-ind=1,1
        [3,3]((8,34,45),(7,30,39),(4,17,22)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,6),(6,25,33),(4,17,22),(8,34,45)); lvl=4; h,r-ind=1,1
        [3,3]((6,25,33),(5,21,28),(4,17,22)); lvl=5; h,r-ind=1,1
        [3,3]((8,34,45),(5,21,28),(4,17,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(8,34,45),(5,21,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(6,25,33),(5,21,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(3,13,17),(8,34,45)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,9,12),(3,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,12),(3,13,17),(2,9,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,5),(2,9,9),(2,9,11),(6,25,33)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [3,3]((2,9,11),(2,9,10),(4,17,21)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,4,5),(2,9,9),(2,9,10),(4,17,21)); lvl=4; h,r-ind=1,2
        [3,3]((3,13,15),(2,9,10),(2,9,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(3,13,15),(2,9,9)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,15),(4,17,21),(2,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(3,13,15),(4,17,21)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,22),(2,9,11),(4,17,21)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,4,5),(4,17,22),(6,25,33),(4,17,21)); lvl=4; h,r-ind=1,2
        [3,3]((5,21,27),(6,25,33),(4,17,22)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,21),(5,21,27),(4,17,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(4,17,21),(5,21,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(5,21,27),(6,25,33)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,6),(6,25,33)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,6),(1,4,7),(2,7,12),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,7),(2,7,12),(3,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,11),(2,7,12),(3,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,4,7),(3,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,11),(1,4,6),(3,11,18)); lvl=3; h,r-ind=1,1
  [4,3]((2,9,16),(4,18,25),(1,4,6),(1,4,7)); lvl=2; h,r-ind=1,1
```

```
  [3,3]((2,9,13),(1,4,6),(4,18,25)); lvl=3; h,r-ind=1,1
  [4,3]((2,9,13),(2,9,14),(6,25,40),(1,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(6,25,40),(8,34,53),(4,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((5,21,33),(4,17,27),(8,34,53)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(5,21,33),(8,34,53)); lvl=5; h,r-ind=1,1
      [3,3]((5,21,33),(6,25,40),(4,17,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(5,21,33),(6,25,40)); lvl=5; h,r-ind=1,1
    [4,3]((3,13,20),(2,9,14),(8,34,53),(4,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((8,34,53),(4,17,27),(7,30,47)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,14),(4,17,27),(7,30,47)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,20),(8,34,53),(7,30,47)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,20),(2,9,14),(7,30,47)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,6),(3,13,20),(8,34,53)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(2,9,13),(3,13,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,13),(3,13,20),(2,9,14)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,7),(6,25,40),(1,4,6)); lvl=3; h,r-ind=1,1
  [4,3]((2,9,16),(2,9,14),(1,4,7),(6,25,40)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
    [4,3]((1,4,7),(4,17,28),(6,25,40),(4,17,27)); lvl=4; h,r-ind=1,2
      [3,3]((4,17,27),(4,17,28),(5,21,34)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,7),(4,17,28),(5,21,34)); lvl=5; h,r-ind=1,1
      [3,3]((6,25,40),(4,17,27),(5,21,34)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,7),(6,25,40),(5,21,34)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,14),(4,17,28),(4,17,27)); lvl=4; h,r-ind=2,2; optimized-h
    [3,3]((2,9,14),(2,9,15),(4,17,28)); lvl=4; h,r-ind=2,2; optimized-h
    [4,3]((1,4,7),(2,9,16),(2,9,15),(4,17,28)); lvl=4; h,r-ind=1,2
      [3,3]((2,9,16),(3,13,22),(2,9,15)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,28),(3,13,22),(2,9,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,7),(4,17,28),(3,13,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,7),(2,9,16),(3,13,22)); lvl=5; h,r-ind=1,1
[3,3]((5,22,40),(2,9,16),(1,4,7)); lvl=2; h,r-ind=1,1
[3,3]((5,22,40),(1,4,7),(7,29,53)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,4,7),(2,7,13),(7,29,53)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[5,3]((2,7,10),(2,7,11),(1,3,5),(1,3,4),(2,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,5),(2,5,8),(2,6,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,4),(2,5,8),(2,6,9)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,5),(5,16,24),(4,13,20),(2,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((4,13,20),(5,16,24),(6,19,29)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,9),(5,16,24),(6,19,29)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(4,13,20),(6,19,29)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,9),(1,3,5),(6,19,29)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,4),(4,13,19),(5,16,24),(2,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((4,13,19),(5,16,24),(6,19,28)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,9),(5,16,24),(6,19,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(4,13,19),(6,19,28)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,9),(1,3,4),(6,19,28)); lvl=4; h,r-ind=1,1
  [3,3]((2,7,10),(1,3,4),(4,13,19)); lvl=3; h,r-ind=1,1
  [5,3]((2,7,10),(2,7,11),(4,13,19),(5,16,24),(4,13,20)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,15),(4,13,19),(5,16,24)); lvl=4; h,r-ind=1,1
    [3,3]((3,10,15),(4,13,20),(5,16,24)); lvl=4; h,r-ind=1,1
    [3,3]((3,10,15),(2,7,11),(4,13,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,10),(3,10,15),(2,7,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,10),(3,10,15),(4,13,19)); lvl=4; h,r-ind=1,1
  [3,3]((2,7,11),(1,3,5),(4,13,20)); lvl=3; h,r-ind=1,1
[3,3]((2,7,12),(2,7,11),(1,3,5)); lvl=2; h,r-ind=1,1
[4,3]((1,3,5),(4,9,16),(2,5,9),(2,5,8)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,9),(6,15,26),(3,7,12),(4,9,16)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((3,7,12),(6,15,26),(5,12,21)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,9),(6,15,26),(5,12,21)); lvl=4; h,r-ind=1,1
    [3,3]((4,9,16),(3,7,12),(5,12,21)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,9),(4,9,16),(5,12,21)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,5),(2,5,9),(6,15,26)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,8),(1,3,5),(6,15,26),(3,7,12)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((1,3,5),(6,15,26),(4,10,17)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,12),(6,15,26),(4,10,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,8),(1,3,5),(4,10,17)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,12),(2,5,8),(4,10,17)); lvl=4; h,r-ind=1,1
[4,3]((2,7,12),(1,3,5),(4,11,20),(2,5,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,5),(2,5,9),(6,17,30)); lvl=3; h,r-ind=1,1
  [4,3]((3,9,16),(4,11,20),(2,5,9),(6,17,30)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((5,14,25),(2,5,9),(4,11,20)); lvl=4; h,r-ind=1,1
    [3,3]((3,9,16),(5,14,25),(4,11,20)); lvl=4; h,r-ind=1,1
    [3,3]((6,17,30),(5,14,25),(2,5,9)); lvl=4; h,r-ind=1,1
    [3,3]((3,9,16),(6,17,30),(5,14,25)); lvl=4; h,r-ind=1,1
  [4,3]((2,7,12),(3,9,16),(1,3,5),(6,17,30)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((3,9,16),(4,12,21),(6,17,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(4,12,21),(6,17,30)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,12),(1,3,5),(4,12,21)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,12),(3,9,16),(4,12,21)); lvl=4; h,r-ind=1,1
[4,3]((1,4,7),(2,7,12),(2,7,13),(4,11,20)); lvl=2; h,r-ind=1,1
  [3,3]((3,9,16),(2,6,11),(4,11,20)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((4,13,23),(7,23,41),(3,9,16),(2,6,11)); lvl=3; h,r-ind=1,1
        [3,3]((6,19,34),(2,6,11),(3,9,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,23),(6,19,34),(3,9,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,23),(7,23,41),(6,19,34)); lvl=4; h,r-ind=1,1
        [3,3]((7,23,41),(6,19,34),(2,6,11)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,13),(1,4,7),(7,23,41),(2,6,11)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((1,4,7),(3,10,18),(7,23,41)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,11),(3,10,18),(7,23,41)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,13),(1,4,7),(3,10,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,11),(2,7,13),(3,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,23),(3,9,16),(2,7,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,7),(4,13,23),(7,23,41),(2,7,12)); lvl=3; h,r-ind=1,1
        [3,3]((7,23,41),(5,17,30),(4,13,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,12),(5,17,30),(4,13,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,7,12),(5,17,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(7,23,41),(5,17,30)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=1; h,r-ind=1,1
  [3,3]((2,9,17),(5,22,40),(2,7,13)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((0,1,0),(2,9,16),(2,9,9)); lvl=1; h,r-ind=14,14; optimized-h
  [3,3]((2,9,17),(0,1,0),(2,9,16)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,9,17),(2,9,16),(5,22,40)); lvl=1; h,r-ind=1,1
```

17.26 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,10,17)); lvl=0; h,r-ind=17,289
  [3,3]((1,2,3),(1,0,0),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((2,10,17),(1,0,0),(1,3,5)); lvl=1; h,r-ind=1,1
  [5,3]((2,8,13),(1,4,6),(1,3,4),(1,2,3),(1,3,5)); lvl=1; h,r-ind=1,1
    [5,3]((1,2,3),(1,3,4),(3,9,14),(3,10,15),(4,13,20)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,20),(3,10,15),(2,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,10,15),(2,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(2,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,14),(4,13,20),(2,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,9,14),(2,6,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(2,7,11),(3,10,15),(4,13,20)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,11),(4,13,20),(5,17,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,15),(4,13,20),(5,17,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,11),(5,17,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,15),(1,4,6),(5,17,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,6),(3,10,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,13),(1,4,6),(2,7,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(2,7,11),(3,9,14),(4,13,20)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,11),(4,13,20),(5,16,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,14),(4,13,20),(5,16,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(3,9,14),(5,16,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,11),(5,16,25)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,13),(1,3,5),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,3),(3,9,14)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,15),(2,8,13),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((2,10,17),(2,9,15),(1,3,5)); lvl=1; h,r-ind=1,1
  [5,3]((2,9,15),(2,8,13),(1,4,6),(2,9,13),(1,5,8)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,6),(2,8,13),(4,17,27)); lvl=2; h,r-ind=1,1
    [5,3]((2,9,15),(4,18,29),(5,22,35),(2,8,13),(4,17,27)); lvl=2; h,r-ind=1,1
      [3,3]((3,13,21),(4,17,27),(5,22,35)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,21),(4,18,29),(5,22,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,15),(3,13,21),(4,18,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,21),(2,8,13),(4,17,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,15),(3,13,21),(2,8,13)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,14),(5,22,35),(1,4,6),(4,17,27)); lvl=2; h,r-ind=1,1
      [3,3]((6,26,41),(4,17,27),(5,22,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,14),(6,26,41),(5,22,35)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(6,26,41),(4,17,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,14),(1,4,6),(6,26,41)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,14),(1,4,6),(2,9,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,8),(2,9,14),(2,9,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,8),(4,18,29),(2,9,14),(5,22,35)); lvl=2; h,r-ind=1,1
      [3,3]((4,18,29),(5,22,35),(6,27,43)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,14),(5,22,35),(6,27,43)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(2,9,14),(6,27,43)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(4,18,29),(6,27,43)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,15),(1,5,8),(4,18,29)); lvl=2; h,r-ind=1,1
  [3,3]((2,10,17),(2,9,15),(1,5,8)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,4),(1,4,4),(1,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(5,12,16),(1,0,0),(1,2,2)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [3,3]((1,1,1),(1,2,2),(3,6,8)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((3,7,9),(1,2,2),(3,6,8)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((1,2,3),(3,7,9),(5,12,16),(3,6,8)); lvl=3; h,r-ind=1,2
```

```
      [3,3]((3,7,9),(5,12,16),(4,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(5,12,16),(4,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,8),(1,2,3),(4,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,8),(3,7,9),(4,9,12)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(1,0,0),(1,1,1),(3,6,8)); lvl=3; h,r-ind=1,2
      [3,3]((1,1,1),(2,3,4),(1,0,0)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,4),(1,0,0)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,8),(1,1,1),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(3,6,8),(2,3,4)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,4),(5,12,16),(1,4,4),(1,2,2)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
    [3,3]((1,2,2),(1,3,3),(3,8,10)); lvl=3; h,r-ind=2,2; optimized-h
    [4,3]((1,3,4),(1,4,4),(1,3,3),(3,8,10)); lvl=3; h,r-ind=1,2
      [3,3]((1,4,4),(2,6,7),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,10),(2,6,7),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,4),(2,6,7)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,9),(1,2,2),(3,8,10)); lvl=3; h,r-ind=2,2; optimized-h
    [4,3]((1,3,4),(5,12,16),(3,7,9),(3,8,10)); lvl=3; h,r-ind=1,2
      [3,3]((4,10,13),(3,7,9),(5,12,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(4,10,13),(5,12,16)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,10),(1,3,4),(4,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,10),(4,10,13),(3,7,9)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,4),(1,2,3),(5,12,16)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,4,4),(1,0,0)); lvl=1; h,r-ind=4,4; optimized-h
[5,3]((1,4,6),(2,9,13),(1,3,4),(1,4,4),(2,9,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,5),(2,9,9),(2,9,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,9,13),(1,4,5),(2,9,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,4,6),(2,9,13),(1,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,5),(1,4,4),(2,9,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,4),(1,4,5),(1,4,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,6),(1,3,4),(1,4,5)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=1; h,r-ind=1,1
[4,3]((2,9,13),(0,1,0),(1,5,8),(2,9,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,7),(1,5,8),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,6),(1,5,7),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,5),(1,5,6),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,9),(1,5,5),(0,1,0)); lvl=2; h,r-ind=1,1
  [4,3]((2,9,13),(2,9,11),(1,5,6),(1,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,12),(2,9,11),(1,5,6),(4,19,25)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,11),(3,14,18),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,25),(3,14,18),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,12),(4,19,25),(3,14,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,12),(2,9,11),(3,14,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(1,5,6),(4,19,25)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,7),(2,9,13),(2,9,12),(4,19,25)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,13),(3,14,19),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,25),(3,14,19),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(4,19,25),(3,14,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(2,9,13),(3,14,19)); lvl=4; h,r-ind=1,1
  [4,3]((2,9,9),(1,5,5),(2,9,11),(1,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,5),(1,5,6),(4,19,21)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,10),(2,9,11),(1,5,6),(4,19,21)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,11),(1,5,6),(3,14,16)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,21),(1,5,6),(3,14,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,10),(2,9,11),(3,14,16)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,21),(2,9,10),(3,14,16)); lvl=4; h,r-ind=1,1
    [4,3]((2,9,9),(2,9,10),(1,5,5),(4,19,21)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,14,15),(4,19,21),(2,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,9),(3,14,15),(2,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(2,9,9),(3,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(3,14,15),(4,19,21)); lvl=4; h,r-ind=1,1
  [3,3]((2,9,13),(1,5,7),(1,5,8)); lvl=2; h,r-ind=1,1
[3,3]((2,10,17),(0,1,0),(1,5,8)); lvl=1; h,r-ind=1,1
```

17.27 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,11,17)); lvl=0; h,r-ind=17,289
  [5,3]((1,2,3),(2,6,9),(2,5,6),(1,3,4),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,7),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(2,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,3,4),(3,6,8),(5,11,15)); lvl=2; h,r-ind=1,1
      [3,3]((4,8,11),(3,6,8),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,8,11),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,15),(4,8,11),(3,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,15),(4,8,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(6,14,19),(5,12,16),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,16),(6,14,19),(7,17,23)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,5,7),(6,14,19),(7,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,12,16),(7,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(1,3,4),(7,17,23)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(5,12,16),(3,7,9),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,16),(4,10,13),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(4,10,13),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,6),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,12,16),(4,10,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(3,7,9),(2,5,6)); lvl=2; h,r-ind=1,1
    [6,3]((2,4,5),(3,6,8),(6,14,19),(5,11,15),(5,12,16),(3,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,12),(3,6,8),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(4,9,12),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,16),(3,7,9),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,19),(5,12,16),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,12),(5,11,15),(3,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,19),(4,9,12),(5,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(3,6,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(6,14,19),(5,11,15),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,15),(6,14,19),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(6,14,19),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,15),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(1,2,3),(7,16,22)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((2,11,17),(1,2,3),(2,6,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,11,17),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((3,16,24),(2,9,11),(2,6,9),(1,3,4)); lvl=1; h,r-ind=1,1
    [5,3]((1,4,6),(2,9,13),(2,8,11),(3,13,18),(6,25,34)); lvl=2; h,r-ind=1,1
      [4,3]((5,21,29),(3,13,18),(7,30,42),(9,38,53)); lvl=3; h,r-ind=1,1
        [3,3]((7,30,42),(3,13,18),(12,51,71)); lvl=4; h,r-ind=1,1
        [3,3]((5,21,29),(3,13,18),(12,51,71)); lvl=4; h,r-ind=1,1
        [3,3]((9,38,53),(5,21,29),(12,51,71)); lvl=4; h,r-ind=1,1
        [3,3]((9,38,53),(7,30,42),(12,51,71)); lvl=4; h,r-ind=1,1
      [5,3]((1,4,6),(6,25,35),(2,9,13),(7,30,42),(9,38,53)); lvl=3; h,r-ind=1,1
        [3,3]((4,17,24),(7,30,42),(9,38,53)); lvl=4; h,r-ind=1,1
        [3,3]((6,25,35),(4,17,24),(9,38,53)); lvl=4; h,r-ind=1,1
        [3,3]((6,25,35),(1,4,6),(4,17,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,13),(4,17,24),(7,30,42)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(2,9,13),(4,17,24)); lvl=4; h,r-ind=1,1
      [4,3]((6,25,35),(2,8,11),(5,21,29),(9,38,53)); lvl=3; h,r-ind=1,1
        [3,3]((11,46,64),(5,21,29),(2,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((6,25,35),(11,46,64),(2,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((9,38,53),(6,25,35),(11,46,64)); lvl=4; h,r-ind=1,1
        [3,3]((9,38,53),(11,46,64),(5,21,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(6,25,35),(2,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,25,34),(5,21,29),(3,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(6,25,34),(5,21,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,13),(3,13,18),(7,30,42)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,7),(1,4,5),(3,13,18),(6,25,34)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,5),(4,17,23),(6,25,34)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,18),(4,17,23),(6,25,34)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,18),(1,5,7),(4,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(1,4,5),(4,17,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,11),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(1,3,4),(2,8,11),(6,25,34)); lvl=2; h,r-ind=1,1
      [3,3]((3,12,16),(1,3,4),(2,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,25,34),(3,12,16),(2,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(6,25,34),(3,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,12,16),(1,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(2,6,9),(1,3,4),(2,8,11)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,6,9),(2,7,10),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(2,7,10),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,6,9),(2,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(1,4,6),(2,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,13),(3,13,18)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,21),(1,4,6),(2,9,13)); lvl=2; h,r-ind=1,1
    [4,3]((3,16,24),(1,5,7),(3,14,21),(2,9,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,13),(1,5,7),(5,24,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,15),(1,5,7),(5,24,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,15),(3,16,24),(1,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((3,14,21),(2,10,15),(2,9,13),(5,24,35)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,10,15),(5,24,35),(4,19,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,13),(5,24,35),(4,19,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,21),(2,10,15),(4,19,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,13),(3,14,21),(4,19,28)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,17),(3,16,24),(2,6,9)); lvl=1; h,r-ind=7,7; optimized-h
  [4,3]((1,0,0),(1,3,3),(2,5,6),(2,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,3),(2,3,3),(2,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,11,13),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(5,11,13),(2,4,5)); lvl=3; h,r-ind=1,1
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      [4,3]((1,2,2),(1,3,3),(2,5,6),(5,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,3),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,3),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(1,2,2),(3,7,8)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,4),(2,3,3),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,4,5),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,4,5),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(1,1,1),(2,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,1),(2,3,4),(5,8,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(2,3,4),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((2,9,9),(2,9,11),(1,3,3),(2,5,6),(1,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((4,15,17),(2,6,7),(1,3,4),(1,4,5)); lvl=2; h,r-ind=1,1
      [4,3]((2,6,7),(2,7,8),(1,3,4),(4,14,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,12),(2,7,8),(4,14,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,10,12),(4,14,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(3,10,12),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,6,7),(3,10,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,4),(4,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,8),(4,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(4,15,17),(2,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(4,15,17),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,10),(1,4,4),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,11),(2,9,10),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,9),(2,9,10),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(2,5,6),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,4),(4,15,17),(1,3,3),(2,6,7)); lvl=2; h,r-ind=1,1
      [4,3]((4,14,15),(2,7,8),(1,3,3),(2,6,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,11),(2,6,7),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,15),(3,10,11),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,11),(2,7,8),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,15),(3,10,11),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(4,14,15),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(4,14,15),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(4,15,17),(2,7,8)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,9,9),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((0,1,0),(3,16,24),(2,9,9),(2,9,11)); lvl=1; h,r-ind=1,1
    [4,3]((2,9,9),(2,10,11),(2,9,10),(1,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,14,15),(2,9,10),(2,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,15),(1,5,5),(2,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,9),(3,14,15),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,9),(3,14,15),(2,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(2,10,11),(3,16,18),(1,5,5)); lvl=2; h,r-ind=1,1
      [4,3]((3,17,18),(3,16,18),(2,10,11),(6,31,33)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,11,12),(9,47,51),(3,16,18),(2,10,11)); lvl=4; h,r-ind=1,3
          [3,3]((4,21,23),(9,47,51),(2,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,18),(4,21,23),(2,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,12),(3,16,18),(4,21,23)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,12),(4,21,23),(9,47,51)); lvl=5; h,r-ind=1,1
        [4,3]((3,16,17),(6,31,33),(9,47,51),(2,10,11)); lvl=4; h,r-ind=1,3
          [3,3]((2,10,11),(6,31,33),(5,26,28)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,17),(6,31,33),(5,26,28)); lvl=5; h,r-ind=1,1
          [3,3]((9,47,51),(2,10,11),(5,26,28)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,17),(9,47,51),(5,26,28)); lvl=5; h,r-ind=1,1
        [3,3]((3,16,17),(2,11,12),(9,47,51)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,17,18),(3,16,17),(2,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(2,10,11),(6,31,33)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,5,5),(3,17,18),(6,31,33)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((6,32,33),(1,5,5),(6,31,33),(3,16,17)); lvl=4; h,r-ind=1,3
          [3,3]((1,5,5),(4,21,22),(6,31,33)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,17),(4,21,22),(6,31,33)); lvl=5; h,r-ind=1,1
          [3,3]((6,32,33),(3,16,17),(4,21,22)); lvl=5; h,r-ind=1,1
          [3,3]((6,32,33),(1,5,5),(4,21,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(6,32,33),(3,16,17)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,6,6),(3,17,18),(3,16,17)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,6),(0,1,0),(6,32,33),(1,5,5)); lvl=4; h,r-ind=1,3
          [3,3]((0,1,0),(2,11,11),(1,5,5)); lvl=5; h,r-ind=1,1
          [3,3]((6,32,33),(2,11,11),(1,5,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,6),(0,1,0),(2,11,11)); lvl=5; h,r-ind=1,1
          [3,3]((6,32,33),(1,6,6),(2,11,11)); lvl=5; h,r-ind=1,1
    [4,3]((1,5,7),(2,10,11),(2,9,11),(2,9,10)); lvl=2; h,r-ind=1,1
      [3,3]((5,23,27),(2,9,10),(2,9,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,7),(5,23,27),(1,5,6),(2,9,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,6),(5,23,27),(3,14,17)); lvl=4; h,r-ind=1,1
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        [3,3]((2,9,11),(5,23,27),(3,14,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(2,9,11),(3,14,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(1,5,6),(3,14,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,23,27),(1,5,6),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,10,11),(2,9,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,7),(2,10,11),(3,16,18),(3,16,20)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,6),(3,16,18),(3,16,19)); lvl=3; h,r-ind=1,1
      [4,3]((3,16,20),(1,5,7),(1,5,6),(3,16,19)); lvl=3; h,r-ind=1,1
        [3,3]((4,21,26),(1,5,6),(1,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,20),(4,21,26),(1,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,19),(3,16,20),(4,21,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,19),(4,21,26),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,10,11),(3,16,18)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(3,16,18),(2,11,14),(3,16,20)); lvl=2; h,r-ind=2,1; alert-h-inc
      [3,3]((2,11,13),(3,16,19),(3,16,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(2,11,13),(3,16,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(1,6,7),(2,11,13)); lvl=3; h,r-ind=1,1
      [4,3]((3,16,18),(3,17,18),(2,11,13),(3,16,19)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,12),(2,11,13),(3,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(7,38,44),(2,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,19),(7,38,44),(2,11,13)); lvl=4; h,r-ind=1,1
        [4,3]((3,16,18),(2,11,12),(3,16,19),(7,38,44)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,27,31),(7,38,44),(2,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,18),(5,27,31),(2,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((5,27,31),(3,16,19),(7,38,44)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,18),(5,27,31),(3,16,19)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,7),(0,1,0),(3,17,18),(2,11,13)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,13),(1,6,6),(4,23,26)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,7),(0,1,0),(1,6,6),(4,23,26)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,6),(0,1,0),(2,12,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(0,1,0),(2,12,13)); lvl=5; h,r-ind=1,1
          [3,3]((4,23,26),(1,6,6),(2,12,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(4,23,26),(2,12,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,13),(1,6,7),(4,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,13),(3,17,18),(1,6,6)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,7),(2,11,15),(2,11,14),(3,16,20)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,15),(3,16,21),(2,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,20),(3,16,21),(2,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,15),(3,16,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,20),(1,5,7),(3,16,21)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(3,17,24),(2,11,15),(2,11,14)); lvl=2; h,r-ind=1,1
      [4,3]((6,34,45),(3,17,24),(1,6,8),(2,11,15)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,17,23),(1,6,8),(3,17,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,23),(2,11,15),(3,17,24)); lvl=4; h,r-ind=1,1
        [3,3]((6,34,45),(3,17,23),(2,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((6,34,45),(3,17,23),(1,6,8)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,14),(3,17,22),(6,34,45),(2,11,15)); lvl=3; h,r-ind=1,1
        [3,3]((3,17,22),(5,28,37),(6,34,45)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,15),(5,28,37),(6,34,45)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,14),(3,17,22),(5,28,37)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,15),(2,11,14),(5,28,37)); lvl=4; h,r-ind=1,1
      [4,3]((3,17,22),(6,34,45),(1,6,7),(1,6,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,7),(1,6,8),(4,23,30)); lvl=4; h,r-ind=1,1
        [3,3]((6,34,45),(1,6,8),(4,23,30)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,22),(1,6,7),(4,23,30)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,22),(6,34,45),(4,23,30)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,7),(1,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(3,17,22),(1,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((3,17,24),(3,16,24),(1,5,7),(2,11,15)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,7),(3,16,24),(2,11,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,27,38),(1,5,7),(2,11,16)); lvl=3; h,r-ind=1,1
      [4,3]((3,17,24),(5,27,38),(2,11,15),(2,11,16)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,15),(5,27,38),(4,22,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,16),(5,27,38),(4,22,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,24),(2,11,15),(4,22,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,16),(3,17,24),(4,22,31)); lvl=4; h,r-ind=1,1
      [3,3]((5,27,38),(2,11,15),(1,5,7)); lvl=3; h,r-ind=1,1
  [3,3]((2,11,17),(0,1,0),(3,16,24)); lvl=1; h,r-ind=3,3; optimized-h
```

17.28 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,12,17)); lvl=0; h,r-ind=17,289
  [3,3]((1,3,4),(1,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,5,7),(1,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,12,17),(1,5,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((2,9,9),(1,5,7),(2,11,15),(1,3,4),(1,3,3)); lvl=1; h,r-ind=1,1
```

```
    [4,3]((1,4,4),(3,13,16),(1,4,5),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,9),(3,13,16),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,8,9),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,8,9),(3,13,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,5),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,7),(1,3,4),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,7),(3,13,16),(3,14,18),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,14,18),(3,13,16),(4,18,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,13,16),(4,18,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(1,4,5),(4,18,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(3,14,18),(4,18,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,4),(3,13,16)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,5,6),(1,4,4),(2,9,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(3,13,16),(2,10,13),(3,14,18)); lvl=2; h,r-ind=1,1
      [4,3]((3,13,16),(2,9,11),(3,14,18),(7,33,42)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,23,29),(7,33,42),(2,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,16),(5,23,29),(2,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((5,23,29),(3,14,18),(7,33,42)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,16),(5,23,29),(3,14,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,13),(3,14,18),(7,33,42)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,6),(2,10,13),(2,9,11),(7,33,42)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,10,13),(7,33,42),(4,19,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,11),(7,33,42),(4,19,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,10,13),(4,19,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,11),(1,5,6),(4,19,24)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,7),(2,11,15),(2,10,13),(3,14,18)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,15),(2,10,13),(3,15,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,18),(2,10,13),(3,15,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(3,14,18),(3,15,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,15),(3,15,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,15),(1,5,6),(2,10,13)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,9,9),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((0,1,0),(2,9,9),(2,11,15),(1,6,8)); lvl=1; h,r-ind=1,1
    [3,3]((2,11,14),(2,11,15),(1,5,6)); lvl=2; h,r-ind=1,1
    [5,3]((2,11,14),(3,17,21),(2,11,12),(3,17,19),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,13),(3,17,19),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,11,13),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(1,5,6),(2,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(3,17,19),(3,17,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,21),(2,11,13),(3,17,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,21),(2,11,14),(2,11,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,5),(2,11,12),(4,22,23),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,22,23),(3,16,17),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(3,16,17),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,5,6),(3,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(4,22,23),(3,16,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,5),(2,9,9),(1,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(2,9,9)); lvl=2; h,r-ind=1,1
    [5,3]((0,1,0),(1,6,8),(3,17,21),(1,6,6),(3,17,19)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,7),(3,17,20),(3,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,6),(3,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,7),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(0,1,0),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(3,17,21),(3,17,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(1,6,7),(3,17,21)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,12),(4,22,23),(1,6,6),(3,17,19)); lvl=2; h,r-ind=1,1
      [3,3]((4,22,23),(3,17,18),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,19),(3,17,18),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,12),(4,22,23),(3,17,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,19),(2,11,12),(3,17,18)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,5,5),(4,22,23),(1,6,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,5),(2,11,11),(4,22,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(2,11,11),(4,22,23)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(2,11,11)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(2,11,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,8),(2,11,14),(3,17,21),(2,11,15)); lvl=2; h,r-ind=1,1
      [3,3]((3,17,22),(3,17,21),(2,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,15),(3,17,22),(2,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,15),(3,17,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(3,17,22),(3,17,21)); lvl=3; h,r-ind=1,1
  [3,3]((2,12,17),(2,11,15),(1,6,8)); lvl=1; h,r-ind=1,1
  [3,3]((2,12,17),(0,1,0),(1,6,8)); lvl=1; h,r-ind=1,1
  [3,3]((2,12,17),(1,5,7),(2,11,15)); lvl=1; h,r-ind=1,1
```

17.29 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,14,17)); lvl=0; h,r-ind=17,289
  [5,3]((1,2,2),(2,9,9),(2,6,7),(1,5,6),(1,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,6),(1,6,7),(5,25,29)); lvl=2; h,r-ind=1,1
    [5,3]((1,4,4),(2,7,7),(4,17,19),(1,6,7),(5,25,29)); lvl=2; h,r-ind=1,1
      [3,3]((3,14,16),(6,29,33),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(6,29,33),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,6,7),(2,9,10)); lvl=3; h,r-ind=1,1
      [4,3]((3,12,13),(4,17,19),(3,14,16),(2,9,10)); lvl=3; h,r-ind=1,1
        [3,3]((6,26,29),(3,14,16),(4,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,12,13),(6,26,29),(4,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(3,12,13),(6,26,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(6,26,29),(3,14,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,7),(3,12,13),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,7,7),(2,9,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,7),(5,25,29),(3,14,16),(6,29,33)); lvl=3; h,r-ind=1,1
        [3,3]((5,25,29),(4,20,23),(3,14,16)); lvl=4; h,r-ind=1,1
        [3,3]((6,29,33),(4,20,23),(3,14,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(6,29,33),(4,20,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(5,25,29),(4,20,23)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,9),(1,4,4),(1,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((4,17,19),(2,7,8),(1,5,6),(5,25,29)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((2,8,9),(7,32,37),(1,5,6),(2,7,8)); lvl=3; h,r-ind=1,3
        [3,3]((7,32,37),(3,13,15),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(3,13,15),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(2,7,8),(3,13,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(7,32,37),(3,13,15)); lvl=4; h,r-ind=1,1
      [4,3]((3,14,16),(7,32,37),(5,25,29),(1,5,6)); lvl=3; h,r-ind=1,3
        [3,3]((4,19,22),(1,5,6),(5,25,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,16),(4,19,22),(5,25,29)); lvl=4; h,r-ind=1,1
        [3,3]((7,32,37),(4,19,22),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,16),(7,32,37),(4,19,22)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,16),(2,8,9),(7,32,37)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((3,14,16),(4,17,19),(2,8,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(2,7,7),(4,17,19),(2,7,8)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((2,8,9),(3,12,13),(4,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,8,9),(3,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(3,12,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(1,2,2),(2,8,9),(2,7,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,2),(2,7,8),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(2,7,8),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(1,3,3),(3,10,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,8),(2,6,7),(1,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,7,8),(2,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,14,17),(1,5,6),(1,6,7)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,7,8),(2,9,9),(1,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,19,21),(1,7,8),(1,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((3,19,21),(1,6,6),(1,5,5),(1,6,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,12,13),(1,6,6),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,13),(1,6,7),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,19,21),(2,12,13),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,19,21),(2,12,13),(1,6,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,5),(2,9,9),(1,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(2,9,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,6),(1,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(3,19,21),(1,6,6),(1,7,8)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((1,6,6),(3,20,21),(2,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(3,20,21),(2,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(3,19,21),(2,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(3,19,21),(2,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,7),(1,6,6),(3,20,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(1,7,7),(3,20,21)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,8),(1,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(1,6,6)); lvl=3; h,r-ind=1,1
  [3,3]((2,14,17),(1,7,8),(1,6,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,14,17),(0,1,0),(1,7,8)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(2,6,7)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(2,9,9)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(2,6,7),(1,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((2,14,17),(1,0,0),(1,5,6)); lvl=1; h,r-ind=1,1
```

17.30 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,16,17)); lvl=0; h,r-ind=17,289
  [3,3]((0,1,0),(2,9,9),(1,1,1)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((2,16,17),(2,9,9),(1,1,1)); lvl=1; h,r-ind=7,7; optimized-h
```

```
  [3,3]((1,0,0),(2,16,17),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,8,8),(2,9,9)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((2,16,17),(1,8,8),(2,9,9)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((2,16,17),(0,1,0),(1,8,8)); lvl=1; h,r-ind=1,1
```

17.31 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,3,17)); lvl=0; h,r-ind=17,289
  [3,3]((1,0,0),(3,3,16),(2,2,11)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,16),(2,2,11)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,17),(0,1,0),(2,2,11)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,17),(1,0,0),(2,2,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,5),(1,0,0),(3,3,16)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,5),(3,3,16)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,5),(1,0,0),(1,1,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,1,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(1,1,5),(1,1,3)); lvl=1; h,r-ind=2,2; optimized-h
```

17.32 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,4,17)); lvl=0; h,r-ind=17,289
  [3,3]((2,2,5),(1,1,4),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((0,1,0),(2,2,5),(2,3,6),(1,0,0)); lvl=1; h,r-ind=1,3
    [3,3]((1,1,2),(2,2,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,2),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,0,0),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,2,3),(1,0,0)); lvl=2; h,r-ind=3,9; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((3,4,17),(1,1,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((2,2,5),(1,1,4),(3,4,14),(2,3,6),(2,3,9)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,13),(2,3,9),(3,4,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(3,4,13),(3,4,14)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,13),(3,4,11),(4,6,15),(2,3,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,11),(2,3,8),(4,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,12),(3,4,11),(2,3,8)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,13),(2,3,9),(3,4,12),(2,3,8)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,21),(2,3,8),(2,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,13),(5,7,21),(2,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,12),(5,7,21),(2,3,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,13),(3,4,12),(5,7,21)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,3),(1,1,4),(3,4,13),(3,4,11)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,4),(5,6,19),(3,4,12),(3,4,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,5,16),(3,4,12),(5,6,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(4,5,16),(5,6,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,13),(4,5,16),(3,4,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(3,4,13),(4,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,4),(5,6,19)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,11),(1,1,3),(5,6,19),(3,4,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,1,3),(5,6,19),(4,5,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,12),(5,6,19),(4,5,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,11),(1,1,3),(4,5,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,12),(3,4,11),(4,5,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,3),(2,3,6),(3,4,11),(4,6,15)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,11),(6,8,21),(4,6,15),(2,3,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,18),(4,6,15),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,21),(5,7,18),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,11),(6,8,21),(5,7,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,11),(5,7,18),(4,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(6,8,21),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,6),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,11),(6,8,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,5),(1,1,3),(2,3,6)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,6),(1,2,5),(2,3,9)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,4),(1,2,3),(2,3,6),(4,6,15)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,7),(1,2,3),(2,3,6),(4,7,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,10),(2,3,6),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,14),(3,5,10),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(4,7,14),(3,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(3,5,10),(2,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,7),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,7),(4,6,15)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,2,4),(1,2,3),(4,7,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,9),(4,6,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,4),(1,2,5),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,4),(3,4,14),(7,9,35),(3,4,15)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,14),(4,5,19),(3,4,15)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,35),(4,5,19),(3,4,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(7,9,35),(4,5,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(3,4,14),(4,5,19)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,17),(1,1,4),(7,9,35),(3,4,16)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,4),(4,5,20),(7,9,35)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,16),(4,5,20),(7,9,35)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,17),(3,4,16),(4,5,20)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,17),(1,1,4),(4,5,20)); lvl=2; h,r-ind=1,1
  [6,3]((3,4,14),(1,2,5),(2,3,9),(3,5,16),(3,4,15),(5,7,26)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,10),(3,4,15),(3,4,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(2,3,9),(3,4,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,10),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(5,7,26),(3,4,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(4,6,21),(5,7,26)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(3,5,16),(4,6,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,10),(3,5,16)); lvl=2; h,r-ind=1,1
  [4,3]((7,9,35),(3,4,16),(3,4,15),(5,7,26)); lvl=1; h,r-ind=1,1
    [3,3]((6,8,31),(3,4,16),(5,7,26)); lvl=2; h,r-ind=1,1
    [3,3]((6,8,31),(3,4,15),(5,7,26)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,35),(6,8,31),(3,4,15)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,35),(6,8,31),(3,4,16)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,17),(3,5,16),(3,4,16),(5,7,26)); lvl=1; h,r-ind=1,1
    [4,3]((3,4,16),(5,7,26),(12,17,64),(7,10,37)); lvl=2; h,r-ind=1,1
      [3,3]((10,14,53),(5,7,26),(7,10,37)); lvl=3; h,r-ind=1,1
      [3,3]((12,17,64),(10,14,53),(7,10,37)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,16),(12,17,64),(10,14,53)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,16),(10,14,53),(5,7,26)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,11),(4,6,21),(12,17,64),(7,10,37)); lvl=2; h,r-ind=1,1
      [3,3]((9,13,48),(7,10,37),(4,6,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,11),(9,13,48),(4,6,21)); lvl=3; h,r-ind=1,1
      [3,3]((9,13,48),(12,17,64),(7,10,37)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,11),(9,13,48),(12,17,64)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,11),(4,6,21),(3,5,16)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,21),(5,7,26),(7,10,37)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,17),(2,3,11),(3,4,16),(12,17,64)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,3,11),(5,7,27),(12,17,64)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,16),(5,7,27),(12,17,64)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,17),(3,4,16),(5,7,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,17),(2,3,11),(5,7,27)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,17),(3,5,16)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,2,5),(3,5,16)); lvl=1; h,r-ind=1,1
```

17.33 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,5,17)); lvl=0; h,r-ind=17,289
  [4,3]((4,6,19),(5,7,22),(2,3,10),(3,4,13)); lvl=1; h,r-ind=1,1
    [3,3]((7,10,32),(3,4,13),(5,7,22)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,19),(7,10,32),(5,7,22)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(7,10,32),(3,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,19),(2,3,10),(7,10,32)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,10),(3,4,13)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,12),(5,7,22),(1,1,3),(3,4,13)); lvl=1; h,r-ind=1,1
    [3,3]((6,8,25),(3,4,13),(5,7,22)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(6,8,25),(5,7,22)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(6,8,25),(3,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(1,1,3),(6,8,25)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(3,4,13)); lvl=1; h,r-ind=1,1
  [7,3]((5,8,25),(3,5,15),(3,4,12),(4,6,19),(5,7,22),(3,5,13),(2,3,8)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,9),(3,5,15),(3,5,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(3,5,13),(3,5,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(3,5,13),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(2,3,8),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(5,7,22),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,25),(2,3,9),(3,5,15)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,25),(2,3,9),(4,6,19)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(4,6,19),(5,7,22)); lvl=2; h,r-ind=1,1
  [5,3]((0,1,0),(9,16,48),(3,5,15),(1,2,4),(3,5,13)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,5),(3,5,14),(3,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,4),(3,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,5),(1,2,4)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,2,5),(3,5,15),(3,5,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(3,5,15),(4,7,21)); lvl=2; h,r-ind=1,1
    [4,3]((9,16,48),(9,17,48),(1,2,5),(4,7,21)); lvl=2; h,r-ind=1,1
      [3,3]((6,11,32),(1,2,5),(9,17,48)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,32),(11,20,58),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,21),(11,20,58),(1,2,5)); lvl=3; h,r-ind=1,1
      [4,3]((6,11,32),(9,16,48),(4,7,21),(11,20,58)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,16,48),(10,18,53),(4,7,21)); lvl=4; h,r-ind=1,1
        [3,3]((11,20,58),(10,18,53),(4,7,21)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,32),(11,20,58),(10,18,53)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,32),(9,16,48),(10,18,53)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(9,17,48),(1,2,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [5,3]((3,4,12),(1,1,3),(1,1,2),(4,6,11),(2,3,8)); lvl=1; h,r-ind=1,1
    [5,3]((1,1,2),(6,7,17),(6,8,19),(2,3,6),(4,6,13)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,9),(6,8,19),(4,5,12),(5,7,16)); lvl=3; h,r-ind=1,1
        [3,3]((9,12,28),(6,8,19),(4,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(9,12,28),(4,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,16),(9,12,28),(6,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(5,7,16),(9,12,28)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(4,6,13),(5,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(2,3,6),(4,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,9),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,23),(3,4,9),(4,5,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,2),(6,7,17),(8,10,23),(4,5,12)); lvl=3; h,r-ind=1,1
        [3,3]((5,6,14),(4,5,12),(8,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(5,6,14),(8,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,17),(5,6,14),(4,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(6,7,17),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(8,10,23),(3,4,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,8),(3,4,11),(6,8,19),(4,6,13)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((2,3,7),(2,3,8),(3,4,10),(3,4,11)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,18),(3,4,11),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(5,7,18),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(5,7,18),(3,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(2,3,8),(5,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,16),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,16),(6,8,19),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,16),(4,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,12),(2,3,8),(3,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,12),(3,4,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(6,7,17),(3,4,11),(6,8,19)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((4,5,12),(6,8,19),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(9,11,28),(3,4,10)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,1,3),(9,11,28),(3,4,11),(3,4,10)); lvl=3; h,r-ind=1,3
        [3,3]((3,4,10),(4,5,13),(3,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(4,5,13),(3,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,28),(1,1,3),(4,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,28),(3,4,10),(4,5,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,3),(6,7,17),(4,5,12),(9,11,28)); lvl=3; h,r-ind=1,3
        [3,3]((4,5,12),(5,6,15),(6,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(5,6,15),(6,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,28),(4,5,12),(5,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(9,11,28),(5,6,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,2),(6,7,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(4,6,11)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,4),(3,5,13),(1,2,3),(4,6,11),(2,3,8)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,8),(3,5,12),(3,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,12),(3,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(6,11,21),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,8),(4,6,13),(6,10,21),(3,5,12)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((3,5,11),(6,10,21),(5,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(3,5,11),(5,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(4,6,13),(5,8,17)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,12),(2,3,8),(2,3,7),(3,5,11)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,8),(2,3,7),(5,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,11),(2,3,7),(5,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,12),(2,3,8),(5,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,11),(3,5,12),(5,8,19)); lvl=4; h,r-ind=1,1
    [5,3]((6,11,21),(1,2,3),(4,6,13),(6,10,21),(2,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,10),(2,3,6),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((8,14,27),(3,5,10),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((6,11,21),(4,7,14),(8,14,27),(1,2,3)); lvl=3; h,r-ind=1,1
        [3,3]((5,9,17),(4,7,14),(8,14,27)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,17),(1,2,3),(8,14,27)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,21),(5,9,17),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,21),(5,9,17),(4,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,14),(8,14,27),(3,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(3,5,10),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(5,8,17),(3,5,10)); lvl=3; h,r-ind=1,1
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      [4,3]((4,7,14),(6,10,21),(5,8,17),(3,5,10)); lvl=3; h,r-ind=1,1
        [3,3]((9,15,31),(5,8,17),(6,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,14),(9,15,31),(6,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,10),(4,7,14),(9,15,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,10),(9,15,31),(5,8,17)); lvl=4; h,r-ind=1,1
    [3,3]((4,6,11),(1,2,3),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(6,11,21),(6,10,21),(3,5,12)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,5,11),(4,7,14),(6,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(4,7,14),(9,16,33)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,4),(4,7,14),(6,11,21),(9,16,33)); lvl=3; h,r-ind=1,3
        [3,3]((6,11,21),(5,9,18),(4,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((9,16,33),(5,9,18),(4,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(9,16,33),(5,9,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(6,11,21),(5,9,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,4),(3,5,12),(3,5,11),(9,16,33)); lvl=3; h,r-ind=1,3
        [3,3]((3,5,12),(4,7,15),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((9,16,33),(4,7,15),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(9,16,33),(4,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(3,5,12),(4,7,15)); lvl=4; h,r-ind=1,1
  [5,3]((1,0,0),(0,1,0),(1,1,2),(1,2,3),(4,6,11)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(4,6,11),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,5),(4,6,9),(3,5,7),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(3,5,7),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,8,12),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,3),(5,8,12)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,2),(3,5,7),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,6),(1,1,2),(2,3,5),(4,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,11),(2,3,5),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,11),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(5,7,11),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(4,6,9),(5,7,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,3),(4,5,7),(3,4,6),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,7),(5,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,7),(5,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(5,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(2,2,3),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,8),(3,4,5),(4,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,2,3),(5,6,8),(8,9,12),(4,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((7,8,11),(8,9,12),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(7,8,11),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(4,5,7),(7,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(7,8,11),(8,9,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,1),(1,0,0),(2,2,3),(8,9,12)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,12),(2,2,3),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(8,9,12),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,1),(5,6,8),(8,9,12),(3,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((6,7,9),(8,9,12),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(6,7,9),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(6,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(6,7,9),(8,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [6,3]((2,3,3),(4,5,7),(1,2,2),(3,4,6),(4,6,9),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(4,6,9),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(1,2,2),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,6),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(4,6,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [5,3]((3,5,17),(3,5,16),(5,8,25),(4,6,19),(2,3,10)); lvl=1; h,r-ind=1,1
    [5,3]((5,8,25),(10,16,51),(4,6,19),(12,19,61),(9,14,45)); lvl=2; h,r-ind=1,1
      [3,3]((7,11,35),(9,14,45),(12,19,61)); lvl=3; h,r-ind=1,1
      [3,3]((10,16,51),(7,11,35),(12,19,61)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,25),(10,16,51),(7,11,35)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,19),(7,11,35),(9,14,45)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,25),(4,6,19),(7,11,35)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,10),(5,8,26),(12,19,61),(9,14,45)); lvl=2; h,r-ind=1,1
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      [3,3]((12,19,61),(5,8,26),(14,22,71)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(5,8,26),(14,22,71)); lvl=3; h,r-ind=1,1
      [3,3]((9,14,45),(2,3,10),(14,22,71)); lvl=3; h,r-ind=1,1
      [3,3]((9,14,45),(12,19,61),(14,22,71)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,17),(2,3,10),(5,8,26)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,16),(3,5,17),(5,8,26)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,16),(10,16,51),(5,8,26),(12,19,61)); lvl=2; h,r-ind=1,1
      [3,3]((12,19,61),(10,16,51),(15,24,77)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,16),(10,16,51),(15,24,77)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,26),(3,5,16),(15,24,77)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,26),(12,19,61),(15,24,77)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(4,6,19),(9,14,45)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,16),(5,8,25),(10,16,51)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,5,17),(2,3,10)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,17),(3,5,16),(7,12,38)); lvl=1; h,r-ind=1,1
  [5,3]((3,5,16),(9,16,48),(7,12,38),(5,8,25),(3,5,15)); lvl=1; h,r-ind=1,1
    [5,3]((8,14,43),(14,24,75),(24,41,128),(4,7,21),(7,12,37)); lvl=2; h,r-ind=1,1
      [3,3]((21,36,112),(24,41,128),(7,12,37)); lvl=3; h,r-ind=1,1
      [4,3]((18,31,96),(29,50,154),(21,36,112),(7,12,37)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,12,37),(25,43,133),(21,36,112)); lvl=4; h,r-ind=1,1
        [3,3]((18,31,96),(25,43,133),(21,36,112)); lvl=4; h,r-ind=1,1
        [3,3]((29,50,154),(7,12,37),(25,43,133)); lvl=4; h,r-ind=1,1
        [3,3]((18,31,96),(29,50,154),(25,43,133)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,21),(29,50,154),(7,12,37)); lvl=3; h,r-ind=1,1
      [4,3]((11,19,59),(14,24,75),(18,31,96),(21,36,112)); lvl=3; h,r-ind=1,1
        [3,3]((32,55,171),(21,36,112),(14,24,75)); lvl=4; h,r-ind=1,1
        [3,3]((11,19,59),(32,55,171),(14,24,75)); lvl=4; h,r-ind=1,1
        [3,3]((18,31,96),(32,55,171),(21,36,112)); lvl=4; h,r-ind=1,1
        [3,3]((11,19,59),(18,31,96),(32,55,171)); lvl=4; h,r-ind=1,1
      [5,3]((8,14,43),(11,19,59),(4,7,21),(18,31,96),(29,50,154)); lvl=3; h,r-ind=1,1
        [3,3]((29,50,154),(22,38,117),(18,31,96)); lvl=4; h,r-ind=1,1
        [4,3]((37,64,197),(33,57,176),(22,38,117),(18,31,96)); lvl=4; h,r-ind=1,1
          [3,3]((33,57,176),(18,31,96),(55,95,293)); lvl=5; h,r-ind=1,1
          [3,3]((22,38,117),(18,31,96),(55,95,293)); lvl=5; h,r-ind=1,1
          [3,3]((37,64,197),(22,38,117),(55,95,293)); lvl=5; h,r-ind=1,1
          [3,3]((37,64,197),(33,57,176),(55,95,293)); lvl=5; h,r-ind=1,1
        [3,3]((11,19,59),(33,57,176),(18,31,96)); lvl=4; h,r-ind=1,1
        [4,3]((11,19,59),(37,64,197),(33,57,176),(15,26,80)); lvl=4; h,r-ind=1,1
          [3,3]((48,83,256),(37,64,197),(33,57,176)); lvl=5; h,r-ind=1,1
          [3,3]((11,19,59),(48,83,256),(33,57,176)); lvl=5; h,r-ind=1,1
          [3,3]((15,26,80),(48,83,256),(37,64,197)); lvl=5; h,r-ind=1,1
          [3,3]((11,19,59),(15,26,80),(48,83,256)); lvl=5; h,r-ind=1,1
        [3,3]((8,14,43),(11,19,59),(15,26,80)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,21),(29,50,154),(22,38,117)); lvl=4; h,r-ind=1,1
        [3,3]((37,64,197),(4,7,21),(22,38,117)); lvl=4; h,r-ind=1,1
        [3,3]((37,64,197),(15,26,80),(4,7,21)); lvl=4; h,r-ind=1,1
        [3,3]((8,14,43),(15,26,80),(4,7,21)); lvl=4; h,r-ind=1,1
      [3,3]((14,24,75),(21,36,112),(24,41,128)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,15),(6,10,31),(4,7,21),(7,12,37)); lvl=2; h,r-ind=1,1
      [3,3]((6,10,31),(7,12,37),(10,17,52)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,21),(7,12,37),(10,17,52)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,15),(4,7,21),(10,17,52)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,15),(6,10,31),(10,17,52)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,16),(24,41,128),(6,10,31),(7,12,37)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((7,12,37),(24,41,128),(10,17,53)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,16),(24,41,128),(10,17,53)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,31),(7,12,37),(10,17,53)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,16),(6,10,31),(10,17,53)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,25),(3,5,15),(6,10,31)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,16),(5,8,25),(6,10,31)); lvl=2; h,r-ind=1,1
    [3,3]((7,12,38),(8,14,43),(14,24,75)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((3,5,16),(7,12,38),(14,24,75),(24,41,128)); lvl=2; h,r-ind=1,1
      [3,3]((17,29,91),(14,24,75),(7,12,38)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,16),(17,29,91),(7,12,38)); lvl=3; h,r-ind=1,1
      [3,3]((24,41,128),(3,5,16),(17,29,91)); lvl=3; h,r-ind=1,1
      [3,3]((24,41,128),(17,29,91),(14,24,75)); lvl=3; h,r-ind=1,1
    [3,3]((8,14,43),(9,16,48),(4,7,21)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,17),(0,1,0),(9,16,48),(7,12,38)); lvl=1; h,r-ind=1,1
    [6,3]((8,14,43),(9,16,49),(9,17,48),(7,13,38),(11,20,60),(9,16,48)); lvl=2; h,r-ind=1,1
      [3,3]((5,9,27),(9,16,49),(8,14,43)); lvl=3; h,r-ind=1,1
      [3,3]((9,16,48),(5,9,27),(8,14,43)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,32),(9,16,48),(5,9,27)); lvl=3; h,r-ind=1,1
      [4,3]((6,11,32),(9,17,48),(8,15,43),(5,9,27)); lvl=3; h,r-ind=1,1
        [3,3]((14,26,75),(8,15,43),(9,17,48)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,32),(14,26,75),(9,17,48)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,27),(14,26,75),(8,15,43)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,32),(5,9,27),(14,26,75)); lvl=4; h,r-ind=1,1
      [3,3]((11,20,60),(5,9,27),(9,16,49)); lvl=3; h,r-ind=1,1
      [3,3]((7,13,38),(11,20,60),(5,9,27)); lvl=3; h,r-ind=1,1
      [3,3]((8,15,43),(7,13,38),(5,9,27)); lvl=3; h,r-ind=1,1
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    [4,3]((0,1,0),(9,17,48),(2,4,11),(7,13,38)); lvl=2; h,r-ind=1,1
      [3,3]((10,19,54),(8,15,43),(7,13,38)); lvl=3; h,r-ind=1,1
      [4,3]((2,4,11),(10,19,54),(15,29,81),(7,13,38)); lvl=3; h,r-ind=1,1
        [3,3]((15,29,81),(10,19,54),(12,23,65)); lvl=4; h,r-ind=1,1
        [3,3]((7,13,38),(10,19,54),(12,23,65)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,11),(7,13,38),(12,23,65)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,11),(15,29,81),(12,23,65)); lvl=4; h,r-ind=1,1
      [4,3]((3,6,16),(0,1,0),(2,4,11),(15,29,81)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((5,10,27),(0,1,0),(2,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((15,29,81),(5,10,27),(2,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,16),(15,29,81),(5,10,27)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,16),(5,10,27),(0,1,0)); lvl=4; h,r-ind=1,1
      [4,3]((3,6,16),(10,19,54),(15,29,81),(8,15,43)); lvl=3; h,r-ind=1,1
        [3,3]((13,25,70),(15,29,81),(10,19,54)); lvl=4; h,r-ind=1,1
        [3,3]((8,15,43),(13,25,70),(10,19,54)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,16),(8,15,43),(13,25,70)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,16),(13,25,70),(15,29,81)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,16),(9,17,48),(8,15,43)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,17),(0,1,0),(2,4,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,11),(7,13,38),(11,20,60),(6,11,33)); lvl=2; h,r-ind=1,1
      [3,3]((13,24,71),(11,20,60),(7,13,38)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,11),(13,24,71),(7,13,38)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,33),(13,24,71),(11,20,60)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,11),(6,11,33),(13,24,71)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,17),(2,4,11),(6,11,33)); lvl=2; h,r-ind=1,1
    [4,3]((4,7,22),(7,12,38),(8,14,43),(9,16,49)); lvl=2; h,r-ind=1,1
      [3,3]((12,21,65),(8,14,43),(7,12,38)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,22),(12,21,65),(7,12,38)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,22),(9,16,49),(12,21,65)); lvl=3; h,r-ind=1,1
      [3,3]((9,16,49),(12,21,65),(8,14,43)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,17),(4,7,22),(7,12,38)); lvl=2; h,r-ind=1,1
    [4,3]((4,7,22),(9,16,49),(11,20,60),(6,11,33)); lvl=2; h,r-ind=1,1
      [3,3]((15,27,82),(11,20,60),(9,16,49)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,22),(15,27,82),(9,16,49)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,33),(15,27,82),(11,20,60)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,22),(6,11,33),(15,27,82)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,17),(4,7,22),(6,11,33)); lvl=2; h,r-ind=1,1
```

17.34 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,6,17)); lvl=0; h,r-ind=17,289
  [5,3]((3,6,16),(2,4,11),(5,9,25),(5,7,19),(2,3,8)); lvl=1; h,r-ind=1,1
    [4,3]((11,19,52),(13,22,60),(4,7,19),(2,4,11)); lvl=2; h,r-ind=1,1
      [3,3]((13,22,60),(4,7,19),(15,26,71)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,11),(4,7,19),(15,26,71)); lvl=3; h,r-ind=1,1
      [3,3]((11,19,52),(13,22,60),(15,26,71)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,11),(11,19,52),(15,26,71)); lvl=3; h,r-ind=1,1
    [4,3]((5,9,25),(7,12,33),(11,19,52),(2,4,11)); lvl=2; h,r-ind=1,1
      [3,3]((9,16,44),(7,12,33),(11,19,52)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,11),(9,16,44),(11,19,52)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,25),(9,16,44),(7,12,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,11),(5,9,25),(9,16,44)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,16),(4,7,19),(2,4,11)); lvl=2; h,r-ind=1,1
    [6,3]((5,8,22),(7,12,33),(11,19,52),(7,11,30),(13,22,60),(11,18,49)); lvl=2; h,r-ind=1,1
      [3,3]((13,22,60),(9,15,41),(11,19,52)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,33),(9,15,41),(11,19,52)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,22),(7,12,33),(9,15,41)); lvl=3; h,r-ind=1,1
      [3,3]((13,22,60),(9,15,41),(11,18,49)); lvl=3; h,r-ind=1,1
      [3,3]((9,15,41),(7,11,30),(11,18,49)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,22),(9,15,41),(7,11,30)); lvl=3; h,r-ind=1,1
    [3,3]((5,9,25),(5,8,22),(7,12,33)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,8),(7,11,30),(11,18,49),(5,7,19)); lvl=2; h,r-ind=1,1
      [3,3]((11,18,49),(9,14,38),(7,11,30)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,19),(9,14,38),(7,11,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(5,7,19),(9,14,38)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(11,18,49),(9,14,38)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,22),(7,11,30),(5,7,19)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,8),(13,22,60),(11,18,49),(4,7,19)); lvl=2; h,r-ind=1,1
      [3,3]((13,22,60),(11,18,49),(15,25,68)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(11,18,49),(15,25,68)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,19),(2,3,8),(15,25,68)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,19),(13,22,60),(15,25,68)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,16),(2,3,8),(4,7,19)); lvl=2; h,r-ind=1,1
  [4,3]((3,3,8),(4,5,13),(5,7,19),(2,3,8)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,13),(5,6,16),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,19),(5,6,16),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,3,8),(5,7,19),(5,6,16)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((3,3,8),(4,5,13),(5,6,16)); lvl=2; h,r-ind=1,1
  [4,3]((3,6,16),(1,2,4),(4,5,13),(2,3,8)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,5),(9,14,36),(4,6,15),(6,9,23)); lvl=2; h,r-ind=1,1
      [3,3]((7,11,28),(4,6,15),(6,9,23)); lvl=3; h,r-ind=1,1
      [3,3]((9,14,36),(7,11,28),(6,9,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(9,14,36),(7,11,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(7,11,28),(4,6,15)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,13),(5,7,17),(4,6,15),(6,9,23)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,10),(16,23,58),(4,6,15),(5,7,17)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((16,23,58),(7,10,25),(4,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,17),(7,10,25),(4,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,10),(16,23,58),(7,10,25)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,17),(3,4,10),(7,10,25)); lvl=4; h,r-ind=1,1
      [4,3]((16,23,58),(9,13,33),(6,9,23),(4,6,15)); lvl=3; h,r-ind=1,1
        [3,3]((13,19,48),(6,9,23),(9,13,33)); lvl=4; h,r-ind=1,1
        [3,3]((16,23,58),(13,19,48),(9,13,33)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(16,23,58),(13,19,48)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(13,19,48),(6,9,23)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,18),(9,13,33),(6,9,23)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,18),(3,4,10),(16,23,58),(9,13,33)); lvl=3; h,r-ind=1,1
        [3,3]((12,17,43),(3,4,10),(16,23,58)); lvl=4; h,r-ind=1,1
        [3,3]((12,17,43),(9,13,33),(16,23,58)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,18),(12,17,43),(9,13,33)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,18),(12,17,43),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,18),(4,5,13),(3,4,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(1,2,4),(5,7,17),(4,6,15)); lvl=2; h,r-ind=1,1
      [4,3]((4,6,15),(7,11,27),(5,7,17),(2,3,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,9,22),(2,3,7),(7,11,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(6,9,22),(7,11,27)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,17),(6,9,22),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(5,7,17),(6,9,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(7,11,27),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(4,6,15),(7,11,27)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,8),(4,5,13),(9,14,36),(6,9,23)); lvl=2; h,r-ind=1,1
      [4,3]((8,12,31),(15,22,57),(5,7,18),(6,9,23)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,18),(15,22,57),(13,19,49)); lvl=4; h,r-ind=1,1
        [3,3]((8,12,31),(15,22,57),(13,19,49)); lvl=4; h,r-ind=1,1
        [3,3]((8,12,31),(6,9,23),(13,19,49)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,23),(5,7,18),(13,19,49)); lvl=4; h,r-ind=1,1
      [3,3]((8,12,31),(9,14,36),(6,9,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(8,12,31),(9,14,36)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,8),(15,22,57),(4,5,13),(5,7,18)); lvl=3; h,r-ind=1,1
        [3,3]((7,10,26),(5,7,18),(15,22,57)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(7,10,26),(15,22,57)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,13),(7,10,26),(5,7,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(4,5,13),(7,10,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,8),(8,12,31),(15,22,57)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,5),(3,6,16),(2,3,8),(9,14,36)); lvl=2; h,r-ind=1,4; alert-r-inc
    [3,3]((3,6,16),(3,5,13),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((9,14,36),(3,5,13),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(9,14,36),(3,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(3,6,16),(3,5,13)); lvl=3; h,r-ind=1,1
[5,3]((1,0,0),(3,3,8),(1,2,4),(1,2,3),(4,5,13)); lvl=1; h,r-ind=1,1
  [4,3]((2,2,5),(3,3,7),(5,7,17),(4,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,12),(3,3,7),(6,7,17)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,5),(11,13,32),(3,3,7),(6,7,17)); lvl=3; h,r-ind=1,1
      [3,3]((11,13,32),(8,9,22),(6,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,7),(8,9,22),(6,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,5),(3,3,7),(8,9,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,5),(11,13,32),(8,9,22)); lvl=4; h,r-ind=1,1
    [4,3]((11,13,32),(3,4,10),(4,5,12),(6,7,17)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,27),(3,4,10),(4,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,17),(9,11,27),(4,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((11,13,32),(6,7,17),(9,11,27)); lvl=4; h,r-ind=1,1
      [3,3]((11,13,32),(9,11,27),(3,4,10)); lvl=4; h,r-ind=1,1
    [4,3]((2,2,5),(11,13,32),(3,4,10),(4,5,13)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((5,6,15),(3,4,10),(11,13,32)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,5),(5,6,15),(11,13,32)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,13),(5,6,15),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,5),(4,5,13),(5,6,15)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,10),(5,7,17),(4,5,12)); lvl=3; h,r-ind=1,1
  [3,3]((3,3,8),(2,2,5),(4,5,13)); lvl=2; h,r-ind=1,1
  [3,3]((3,3,8),(1,0,0),(2,2,5)); lvl=2; h,r-ind=1,1
  [4,3]((3,3,7),(1,1,2),(1,2,4),(5,7,17)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,7),(1,2,4),(8,10,23)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((3,4,9),(1,2,4),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,23),(3,4,9),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(8,10,23),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,9),(1,2,4)); lvl=4; h,r-ind=1,1
```

```
      [4,3]((3,3,7),(5,6,14),(1,1,2),(8,10,23)); lvl=3; h,r-ind=1,1
        [3,3]((5,6,14),(8,10,23),(6,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(8,10,23),(6,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,7),(5,6,14),(6,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(3,3,7),(6,7,16)); lvl=4; h,r-ind=1,1
      [4,3]((4,5,12),(5,6,14),(2,3,7),(8,10,23)); lvl=3; h,r-ind=1,1
        [3,3]((7,9,21),(8,10,23),(5,6,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,12),(7,9,21),(5,6,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(4,5,12),(7,9,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(7,9,21),(8,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,17),(4,5,12),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,7),(4,5,12),(5,6,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,3,7),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,5),(3,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,6,16),(1,2,4)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((0,1,0),(3,6,16),(2,4,11)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,17),(0,1,0),(2,4,11)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,17),(2,4,11),(5,9,25)); lvl=1; h,r-ind=1,1
  [5,3]((3,6,17),(1,0,0),(3,3,8),(5,9,25),(5,7,19)); lvl=1; h,r-ind=1,1
    [4,3]((3,4,11),(6,9,25),(5,7,19),(5,8,22)); lvl=2; h,r-ind=1,1
      [3,3]((8,12,33),(6,9,25),(5,8,22)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,19),(8,12,33),(5,8,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,11),(8,12,33),(6,9,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,11),(5,7,19),(8,12,33)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,14),(5,9,25),(6,9,25),(5,8,22)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,22),(5,9,25),(8,13,36)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,14),(5,9,25),(8,13,36)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,14),(6,9,25),(8,13,36)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,25),(5,8,22),(8,13,36)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(3,5,14),(6,9,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,17),(1,0,0),(3,5,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,17),(3,5,14),(5,9,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,3,8),(3,4,11),(5,7,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,3,8),(3,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,4,11),(6,9,25)); lvl=2; h,r-ind=1,1
```

17.35 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,10,17)); lvl=0; h,r-ind=17,289
  [3,3]((1,2,3),(1,3,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,10,17),(1,3,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(1,2,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,3,3),(1,2,3),(1,3,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,3,3),(1,3,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(3,10,16),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,10,17),(3,10,16),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,10,17),(0,1,0),(3,10,16)); lvl=1; h,r-ind=3,9; optimized-h
```

17.36 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,12,17)); lvl=0; h,r-ind=17,289
  [4,3]((2,3,4),(2,4,5),(1,0,0),(1,2,2)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,5),(5,8,10),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,8,10),(3,5,6),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,5,6),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(5,8,10),(3,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,4),(1,0,0),(5,8,10),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(3,4,5),(1,0,0)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(1,0,0)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,10),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(5,8,10),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(5,8,10)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,3,3),(2,7,9),(1,3,4),(2,4,5),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,9),(3,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,7,9),(3,9,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,3,4),(4,11,13),(2,5,6),(3,9,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,6),(4,11,13),(5,14,17)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((3,9,11),(4,11,13),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,9,11),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,6),(5,14,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(4,11,13),(3,8,9),(3,9,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,9),(9,25,29),(4,11,13)); lvl=3; h,r-ind=1,1
      [4,3]((2,6,7),(3,9,11),(9,25,29),(4,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,17,20),(4,11,13),(3,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(6,17,20),(3,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((9,25,29),(6,17,20),(4,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(9,25,29),(6,17,20)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,3),(2,6,7),(3,8,9),(9,25,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,14,16),(9,25,29),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(5,14,16),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(1,3,3),(5,14,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(5,14,16),(9,25,29)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,2),(4,11,13),(3,8,9),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,9),(4,11,13),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(4,11,13),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,8,9),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(1,2,2),(5,13,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(1,2,2),(3,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((2,7,9),(4,15,20),(3,11,15),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,11,15),(4,15,20),(5,18,24)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,9),(4,15,20),(5,18,24)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,9),(5,18,24)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(3,11,15),(5,18,24)); lvl=2; h,r-ind=1,1
  [4,3]((2,8,11),(3,12,16),(4,15,20),(3,11,15)); lvl=1; h,r-ind=1,1
    [3,3]((6,23,31),(3,12,16),(4,15,20)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,15),(6,23,31),(4,15,20)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,11),(3,11,15),(6,23,31)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,11),(6,23,31),(3,12,16)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,8,11),(3,12,16)); lvl=1; h,r-ind=1,1
  [5,3]((0,1,0),(3,12,16),(1,3,3),(2,7,9),(4,15,20)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,9),(4,15,20)); lvl=2; h,r-ind=1,1
    [3,3]((3,12,16),(1,4,5),(4,15,20)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(1,3,3),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,8,9),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(2,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,12,16),(0,1,0),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,8,9),(1,3,3)); lvl=2; h,r-ind=3,9; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((3,10,14),(3,8,11),(2,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,11),(2,3,4),(7,16,22)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,5,7),(2,3,4),(7,16,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,7),(7,16,22),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(7,16,22),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,5,7),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(1,0,0),(4,8,11)); lvl=3; h,r-ind=1,1
    [4,3]((3,10,14),(2,5,7),(3,8,11),(7,16,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,7),(7,16,22),(5,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,11),(7,16,22),(5,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,14),(2,5,7),(5,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,11),(3,10,14),(5,13,18)); lvl=3; h,r-ind=1,1
  [3,3]((3,12,17),(3,10,14),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,3,4),(3,8,11),(2,3,4),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,6,8),(2,3,4),(3,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(3,6,8),(3,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,4,5),(3,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,6,8),(2,3,4)); lvl=2; h,r-ind=1,1
  [5,3]((3,11,15),(3,10,14),(7,25,35),(1,3,4),(3,8,11)); lvl=1; h,r-ind=1,1
    [4,3]((12,41,57),(13,44,61),(4,13,18),(3,10,14)); lvl=2; h,r-ind=1,1
      [3,3]((16,54,75),(4,13,18),(13,44,61)); lvl=3; h,r-ind=1,1
      [3,3]((12,41,57),(16,54,75),(13,44,61)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,14),(16,54,75),(4,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((12,41,57),(3,10,14),(16,54,75)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,11),(4,13,18),(3,10,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(3,8,11),(4,13,18)); lvl=2; h,r-ind=1,1
    [4,3]((8,28,39),(7,25,35),(12,41,57),(3,10,14)); lvl=2; h,r-ind=1,1
      [3,3]((11,38,53),(3,10,14),(7,25,35)); lvl=3; h,r-ind=1,1
      [3,3]((8,28,39),(11,38,53),(7,25,35)); lvl=3; h,r-ind=1,1
      [3,3]((8,28,39),(12,41,57),(11,38,53)); lvl=3; h,r-ind=1,1
      [3,3]((12,41,57),(11,38,53),(3,10,14)); lvl=3; h,r-ind=1,1
    [3,3]((5,18,25),(8,28,39),(7,25,35)); lvl=2; h,r-ind=1,1
    [6,3]((5,18,25),(8,28,39),(6,21,29),(10,34,47),(12,41,57),(13,44,61)); lvl=2; h,r-ind=1,1
      [3,3]((9,31,43),(12,41,57),(8,28,39)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,25),(9,31,43),(8,28,39)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,25),(9,31,43),(6,21,29)); lvl=3; h,r-ind=1,1
      [3,3]((9,31,43),(12,41,57),(13,44,61)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((9,31,43),(10,34,47),(13,44,61)); lvl=3; h,r-ind=1,1
      [3,3]((9,31,43),(6,21,29),(10,34,47)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,15),(5,18,25),(6,21,29)); lvl=2; h,r-ind=1,1
    [4,3]((3,11,15),(1,3,4),(6,21,29),(10,34,47)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(10,34,47),(7,24,33)); lvl=3; h,r-ind=1,1
      [3,3]((6,21,29),(10,34,47),(7,24,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,15),(6,21,29),(7,24,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,15),(1,3,4),(7,24,33)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(10,34,47),(13,44,61),(4,13,18)); lvl=2; h,r-ind=1,1
      [3,3]((10,34,47),(13,44,61),(14,47,65)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,18),(13,44,61),(14,47,65)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(10,34,47),(14,47,65)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,18),(1,3,4),(14,47,65)); lvl=3; h,r-ind=1,1
  [3,3]((3,12,17),(3,10,14),(7,25,35)); lvl=1; h,r-ind=1,1
  [4,3]((3,12,17),(2,8,11),(3,11,15),(7,25,35)); lvl=1; h,r-ind=1,1
    [3,3]((4,15,21),(3,11,15),(5,18,25)); lvl=2; h,r-ind=1,1
    [3,3]((7,25,35),(4,15,21),(5,18,25)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,21),(2,8,11),(3,11,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,12,17),(4,15,21),(2,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((7,25,35),(3,12,17),(4,15,21)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,12,17),(2,8,11)); lvl=1; h,r-ind=1,1
```

17.37 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,13,17)); lvl=0; h,r-ind=17,289
  [3,3]((1,0,0),(2,4,5),(5,11,14)); lvl=1; h,r-ind=1,1
  [5,3]((2,7,9),(1,4,5),(2,5,6),(2,4,5),(5,11,14)); lvl=1; h,r-ind=1,1
    [4,3]((3,8,10),(5,15,19),(7,19,24),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((8,23,29),(7,19,24),(5,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(8,23,29),(5,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(1,4,5),(8,23,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(8,23,29),(7,19,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(3,8,10),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,9),(5,15,19),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,9),(6,15,19),(5,15,19),(7,19,24)); lvl=2; h,r-ind=1,1
      [4,3]((4,11,14),(16,45,57),(7,19,24),(6,15,19)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((11,30,38),(7,19,24),(16,45,57)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,14),(11,30,38),(16,45,57)); lvl=4; h,r-ind=1,1
        [3,3]((11,30,38),(6,15,19),(7,19,24)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,14),(11,30,38),(6,15,19)); lvl=4; h,r-ind=1,1
      [3,3]((5,15,19),(16,45,57),(7,19,24)); lvl=3; h,r-ind=1,1
      [4,3]((4,11,14),(2,7,9),(5,15,19),(16,45,57)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,9),(9,26,33),(5,15,19)); lvl=4; h,r-ind=1,1
        [3,3]((16,45,57),(9,26,33),(5,15,19)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,14),(2,7,9),(9,26,33)); lvl=4; h,r-ind=1,1
        [3,3]((16,45,57),(4,11,14),(9,26,33)); lvl=4; h,r-ind=1,1
    [4,3]((3,8,10),(6,15,19),(7,19,24),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((9,23,29),(7,19,24),(6,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(9,23,29),(6,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(2,4,5),(9,23,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(9,23,29),(7,19,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(3,8,10),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,14),(6,15,19),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,9),(5,11,14),(6,15,19)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((3,13,17),(2,7,9),(1,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((3,13,17),(2,7,9),(1,0,0),(5,11,14)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,9),(5,11,14),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,9),(6,17,22),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,13),(6,17,22),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,13,17),(3,10,13),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,13,17),(3,10,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,10,13),(6,17,22)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,7,9),(6,17,22)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,7,9),(5,11,14)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,2),(2,5,6),(1,0,0),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(2,4,5),(5,10,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,1),(2,4,5),(5,10,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,6),(2,4,5),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,5,6),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,5,6),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(1,1,1),(2,5,6),(5,10,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(3,6,7),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,6,7),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(3,6,7)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
```

```
  [4,3]((1,4,5),(1,2,2),(2,5,6),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,7),(2,5,6),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,6,7),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(1,3,3),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,5),(1,3,3)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((0,1,0),(1,4,5),(3,13,16)); lvl=1; h,r-ind=1,1
  [3,3]((3,13,17),(1,4,5),(3,13,16)); lvl=1; h,r-ind=1,1
  [3,3]((3,13,17),(0,1,0),(3,13,16)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
```

17.38 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,15,17)); lvl=0; h,r-ind=17,289
  [4,3]((0,1,0),(3,12,13),(3,15,16),(1,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((2,9,9),(1,4,4),(6,27,29),(3,12,13)); lvl=2; h,r-ind=1,1
      [4,3]((3,13,14),(9,39,41),(1,4,4),(3,12,13)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((4,17,18),(1,4,4),(9,39,41)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,14),(4,17,18),(9,39,41)); lvl=4; h,r-ind=1,1
        [3,3]((3,12,13),(4,17,18),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,14),(3,12,13),(4,17,18)); lvl=4; h,r-ind=1,1
      [3,3]((6,27,29),(3,13,14),(4,18,19)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,9),(5,22,23),(9,39,41),(1,4,4)); lvl=3; h,r-ind=1,1
        [3,3]((6,26,27),(5,22,23),(9,39,41)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(6,26,27),(9,39,41)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,9),(6,26,27),(5,22,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(2,9,9),(6,26,27)); lvl=4; h,r-ind=1,1
      [4,3]((3,13,14),(4,18,19),(5,22,23),(9,39,41)); lvl=3; h,r-ind=1,1
        [3,3]((8,35,37),(4,18,19),(5,22,23)); lvl=4; h,r-ind=1,1
        [3,3]((9,39,41),(8,35,37),(5,22,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,14),(9,39,41),(8,35,37)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,14),(8,35,37),(4,18,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,9),(4,18,19),(5,22,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(1,4,4),(3,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,9,9),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(0,1,0),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,9),(1,5,5),(3,15,16),(6,27,29)); lvl=2; h,r-ind=1,1
      [4,3]((9,42,44),(3,14,15),(1,5,5),(3,15,16)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((1,5,5),(3,15,16),(4,19,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,15),(3,15,16),(4,19,20)); lvl=4; h,r-ind=1,1
        [3,3]((9,42,44),(1,5,5),(4,19,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,15),(9,42,44),(4,19,20)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,9),(5,23,24),(9,42,44),(1,5,5)); lvl=3; h,r-ind=1,1
        [3,3]((6,28,29),(9,42,44),(5,23,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,9),(6,28,29),(5,23,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(2,9,9),(6,28,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(6,28,29),(9,42,44)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,19),(2,9,9),(5,23,24)); lvl=3; h,r-ind=1,1
      [4,3]((4,18,19),(5,23,24),(9,42,44),(3,14,15)); lvl=3; h,r-ind=1,1
        [3,3]((8,37,39),(9,42,44),(5,23,24)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,19),(8,37,39),(5,23,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,15),(4,18,19),(8,37,39)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,15),(8,37,39),(9,42,44)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,19),(6,27,29),(3,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(3,15,16)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,1),(3,9,10),(3,12,13),(1,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,3),(1,2,2),(3,12,13),(6,21,23)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(3,11,12),(6,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,17),(1,2,2),(3,11,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(3,12,13),(5,16,17),(3,11,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,14,15),(3,12,13),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,17),(4,14,15),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(5,16,17),(4,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(4,14,15),(3,12,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(5,16,17),(1,2,2)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(1,2,2),(3,9,10),(6,21,23)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,11),(1,2,2),(6,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,14),(3,10,11),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(5,13,14),(1,2,2)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(5,13,14),(3,10,11),(3,9,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,11,12),(5,13,14),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,10),(4,11,12),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,9,10),(4,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(4,11,12),(5,13,14)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,1,1),(3,9,10)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((2,8,9),(2,9,10),(3,9,10),(3,12,13)); lvl=1; h,r-ind=1,1
    [4,3]((2,9,10),(9,36,40),(3,12,13),(6,21,23)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,11,12),(5,19,21),(6,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,12),(12,48,53),(5,19,21)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((2,9,10),(12,48,53),(9,36,40),(5,19,21)); lvl=3; h,r-ind=1,3
        [3,3]((7,28,31),(12,48,53),(5,19,21)); lvl=4; h,r-ind=1,1
        [3,3]((9,36,40),(7,28,31),(5,19,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(9,36,40),(7,28,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(7,28,31),(12,48,53)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,10),(3,12,13),(3,11,12),(12,48,53)); lvl=3; h,r-ind=1,3
        [3,3]((3,11,12),(5,20,22),(3,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(5,20,22),(3,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((12,48,53),(2,9,10),(5,20,22)); lvl=4; h,r-ind=1,1
        [3,3]((12,48,53),(3,11,12),(5,20,22)); lvl=4; h,r-ind=1,1
    [4,3]((2,8,9),(3,9,10),(9,36,40),(6,21,23)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,10,11),(5,19,21),(6,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,11),(12,45,50),(5,19,21)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((2,8,9),(9,36,40),(12,45,50),(5,19,21)); lvl=3; h,r-ind=1,3
        [3,3]((7,27,30),(9,36,40),(5,19,21)); lvl=4; h,r-ind=1,1
        [3,3]((12,45,50),(7,27,30),(5,19,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(12,45,50),(7,27,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(7,27,30),(9,36,40)); lvl=4; h,r-ind=1,1
      [4,3]((2,8,9),(3,9,10),(3,10,11),(12,45,50)); lvl=3; h,r-ind=1,3
        [3,3]((5,18,20),(3,9,10),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((12,45,50),(5,18,20),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(12,45,50),(5,18,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(5,18,20),(3,9,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,9),(2,9,10),(9,36,40)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,8,9),(3,9,10)); lvl=1; h,r-ind=1,1
  [3,3]((3,15,17),(1,0,0),(2,8,9)); lvl=1; h,r-ind=1,1
  [3,3]((3,15,17),(2,8,9),(2,9,10)); lvl=1; h,r-ind=1,1
  [4,3]((2,10,11),(2,9,10),(3,12,13),(3,15,16)); lvl=1; h,r-ind=1,1
    [4,3]((2,9,10),(9,42,46),(3,12,13),(6,27,29)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((5,23,25),(6,27,29),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((12,54,59),(5,23,25),(3,13,14)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((2,9,10),(3,12,13),(12,54,59),(3,13,14)); lvl=3; h,r-ind=1,3
        [3,3]((3,13,14),(5,22,24),(3,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(5,22,24),(3,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((12,54,59),(2,9,10),(5,22,24)); lvl=4; h,r-ind=1,1
        [3,3]((12,54,59),(3,13,14),(5,22,24)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,10),(12,54,59),(5,23,25),(9,42,46)); lvl=3; h,r-ind=1,3
        [3,3]((7,32,35),(12,54,59),(5,23,25)); lvl=4; h,r-ind=1,1
        [3,3]((9,42,46),(7,32,35),(5,23,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(9,42,46),(7,32,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(7,32,35),(12,54,59)); lvl=4; h,r-ind=1,1
    [4,3]((2,10,11),(3,15,16),(9,42,46),(6,27,29)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((5,23,25),(3,14,15),(6,27,29)); lvl=3; h,r-ind=1,1
      [3,3]((5,23,25),(12,57,62),(3,14,15)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((2,10,11),(5,23,25),(9,42,46),(12,57,62)); lvl=3; h,r-ind=1,3
        [3,3]((7,33,36),(9,42,46),(5,23,25)); lvl=4; h,r-ind=1,1
        [3,3]((12,57,62),(7,33,36),(5,23,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(12,57,62),(7,33,36)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(7,33,36),(9,42,46)); lvl=4; h,r-ind=1,1
      [4,3]((2,10,11),(12,57,62),(3,14,15),(3,15,16)); lvl=3; h,r-ind=1,3
        [3,3]((3,14,15),(5,24,26),(12,57,62)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(5,24,26),(12,57,62)); lvl=4; h,r-ind=1,1
        [3,3]((3,15,16),(3,14,15),(5,24,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(3,15,16),(5,24,26)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,11),(2,9,10),(9,42,46)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,10,11),(3,15,16)); lvl=1; h,r-ind=1,1
  [3,3]((3,15,17),(2,10,11),(2,9,10)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,15,17),(2,10,11)); lvl=1; h,r-ind=1,1
```

17.39 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,16,17)); lvl=0; h,r-ind=17,289
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,16,17),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,16,17),(1,3,3),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,5,5),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(3,16,16),(1,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,16,17),(0,1,0),(3,16,16)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((3,16,17),(3,16,16),(1,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,16,17),(1,5,5),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
```

17.40 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,4,17)); lvl=0; h,r-ind=17,289
  [3,3]((2,2,5),(1,1,4),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,4,17),(1,1,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,5),(1,0,0)); lvl=1; h,r-ind=5,25; optimized-h
  [3,3]((0,1,0),(2,2,5),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,4,17),(0,1,0),(1,1,4)); lvl=1; h,r-ind=1,1
```

17.41 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,7,17)); lvl=0; h,r-ind=17,289
  [3,3]((1,1,2),(1,0,0),(2,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,12),(1,0,0),(2,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((4,7,17),(3,5,12),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,2),(2,3,6),(3,5,11),(2,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,6),(3,5,11),(4,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,5,11),(4,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(4,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(1,1,2),(4,6,13)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,12),(4,7,16),(3,5,11),(2,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,16),(3,5,11),(6,10,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,5,11),(6,10,23)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,12),(4,7,16),(6,10,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,5,12),(6,10,23)); lvl=2; h,r-ind=1,1
  [3,3]((4,7,17),(3,5,12),(4,7,16)); lvl=1; h,r-ind=1,1
  [5,3]((1,2,3),(2,4,5),(1,1,2),(2,2,3),(2,3,6)); lvl=1; h,r-ind=1,1
    [6,3]((5,8,12),(6,9,14),(5,7,11),(3,5,7),(2,3,4),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,6,9),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(4,6,9),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(3,5,7),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(5,8,12),(4,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(3,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((5,7,11),(2,2,3),(1,1,2),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,8),(2,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,5,8),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(3,4,6),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,5),(6,9,14),(5,7,11),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,5),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,7,11),(7,10,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,6),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(5,8,12),(2,3,5),(6,9,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,5,7),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(5,8,12),(2,4,5),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(4,7,10)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,4),(1,2,3),(2,3,6),(3,5,11)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,10),(2,3,6),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,10),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,11),(3,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(3,5,10),(2,3,6)); lvl=2; h,r-ind=1,1
  [3,3]((4,7,16),(1,2,4),(3,5,11)); lvl=1; h,r-ind=1,1
  [3,3]((4,7,17),(4,7,16),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((4,7,17),(0,1,0),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,4,5),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,5),(2,3,4),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((2,2,3),(2,3,4),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
```

17.42 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,8,17)); lvl=0; h,r-ind=17,289
  [5,3]((1,2,3),(2,4,5),(2,3,6),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
    [6,3]((5,8,12),(6,9,14),(5,7,11),(3,5,7),(2,3,4),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,6,9),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(4,6,9),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(3,5,7),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(5,8,12),(4,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(3,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((5,7,11),(2,2,3),(1,1,2),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,8),(2,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,5,8),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(3,4,6),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,5),(6,9,14),(5,7,11),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,5),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,7,11),(7,10,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(1,1,2),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(5,8,12),(2,3,5),(6,9,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,5,7),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(5,8,12),(2,4,5),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(4,7,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,4,5),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,5),(2,3,4),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(2,3,4),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((4,8,17),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,4),(1,2,3),(2,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((4,8,17),(1,2,4),(2,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,4),(0,1,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((4,8,17),(1,2,4),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,8,17),(2,3,6),(1,1,2)); lvl=1; h,r-ind=1,1
```

17.43 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,11,17)); lvl=0; h,r-ind=17,289
  [5,3]((1,2,3),(1,2,2),(2,3,4),(2,5,5),(2,5,7)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((3,7,8),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [6,3]((5,11,13),(6,13,16),(5,11,14),(3,7,8),(3,7,9),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,11),(2,5,6),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(4,9,11),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,16),(5,11,14),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(6,13,16),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(4,9,11),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(3,7,8),(4,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,9),(2,5,7),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((5,11,14),(3,7,9),(1,2,3),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,9),(2,5,7),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(3,7,9),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,14),(4,9,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(5,11,13),(6,13,16),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,13),(6,13,16),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,16),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,11,13),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(7,15,18)); lvl=3; h,r-ind=1,1
    [4,3]((6,13,16),(5,11,14),(2,4,5),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,16),(2,4,5),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(1,2,3),(7,15,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(5,11,13),(3,7,8),(2,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,10),(5,11,13),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(4,9,10),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,9,10),(5,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,3,4),(2,5,5),(2,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(1,3,3),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,3),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,4),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(2,5,6),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,5),(1,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((3,8,12),(1,3,4),(2,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((4,11,17),(3,8,12),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,11,17),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((3,8,12),(1,2,3),(2,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((4,11,17),(3,8,12),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((4,11,17),(1,0,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(2,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

17.44 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,12,17)); lvl=0; h,r-ind=17,289
  [4,3]((2,4,5),(1,2,2),(1,3,4),(2,5,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(1,2,2),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,6),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,4),(2,5,5)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((4,12,17),(0,1,0),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,4),(3,8,11),(2,4,5),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,11),(3,6,8),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,6,8),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,8,11),(3,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(2,3,4),(3,6,8)); lvl=2; h,r-ind=1,1
  [3,3]((4,12,17),(3,8,11),(1,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,5,7),(2,3,4),(3,8,11)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,7),(3,8,11),(4,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,8,11),(4,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,4),(4,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,5,7),(4,8,11)); lvl=2; h,r-ind=1,1
  [3,3]((4,12,17),(2,5,7),(3,8,11)); lvl=1; h,r-ind=1,1
  [3,3]((4,12,17),(1,0,0),(2,5,7)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,4),(2,4,5),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(5,8,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(1,1,1),(2,4,5),(5,8,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(5,8,10),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(5,8,10),(3,5,6)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,2,2),(1,1,1),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,1),(2,3,4),(5,8,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,5),(1,1,1),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

17.45 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,14,17)); lvl=0; h,r-ind=17,289
  [4,3]((2,5,6),(2,6,7),(3,6,7),(5,15,18)); lvl=1; h,r-ind=1,1
    [3,3]((4,11,13),(2,6,7),(3,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(4,11,13),(3,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(5,15,18),(4,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((5,15,18),(4,11,13),(2,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((4,14,17),(2,5,6),(5,15,18)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,14,17),(2,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,5,6),(3,6,7)); lvl=1; h,r-ind=1,1
  [3,3]((4,14,17),(2,6,7),(5,15,18)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,14,17),(2,6,7),(2,7,8)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,1,1),(2,5,5),(2,6,7),(3,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,7),(1,2,2),(6,15,17)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(3,7,8),(1,2,2),(6,15,17)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,8),(6,15,17),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(6,15,17),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,7,8),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(4,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(3,7,8),(3,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,8),(2,6,7),(6,15,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,8),(3,6,7),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(2,5,5),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(3,6,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,5),(2,6,7),(1,4,4),(2,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,7),(2,7,8),(5,16,18)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(1,4,4),(2,7,8),(5,16,18)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,10,11),(2,7,8),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,10,11),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,18),(3,10,11),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(5,16,18),(3,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(2,6,7),(5,16,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,5),(2,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((4,14,17),(1,4,4),(2,7,8)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,4,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,14,17),(0,1,0),(1,4,4)); lvl=1; h,r-ind=1,1
```

17.46 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,16,17)); lvl=0; h,r-ind=17,289
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,16,17),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(0,1,0),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,16,17),(1,1,1),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,4,4),(0,1,0),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,16,17),(1,4,4),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,16,17),(1,4,4),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
```

17.47 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,5,17)); lvl=0; h,r-ind=17,289
  [3,3]((4,4,13),(3,3,10),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,17),(3,3,10),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,4,13),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(1,0,0)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((0,1,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,4,13),(1,1,3)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((0,1,0),(4,4,13),(3,3,10)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,17),(0,1,0),(3,3,10)); lvl=1; h,r-ind=1,1
```

17.48 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,8,17)); lvl=0; h,r-ind=17,289
  [4,3]((1,1,2),(2,3,5),(1,2,2),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(2,3,5),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,4),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(1,2,2),(2,2,3)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,1),(2,2,3),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,2),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,8,17),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,6),(3,5,9),(1,1,2),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,11),(2,3,5),(3,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(4,6,11),(3,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(4,6,11),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,1,2),(4,6,11)); lvl=2; h,r-ind=1,1
  [3,3]((5,8,17),(2,3,6),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((4,7,13),(3,5,10),(2,3,6),(3,5,9)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,10),(6,10,19),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,9),(6,10,19),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,13),(3,5,10),(6,10,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,9),(4,7,13),(6,10,19)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(4,7,13),(3,5,10)); lvl=1; h,r-ind=1,1
  [3,3]((5,8,17),(3,5,10),(2,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,8,17),(3,5,10)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,5,9),(2,3,5),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,2),(1,2,3),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,9),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(4,7,13),(3,5,9)); lvl=1; h,r-ind=3,3; optimized-h
```

17.49 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,10,17)); lvl=0; h,r-ind=17,289
  [3,3]((2,3,4),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,2,3),(2,3,4),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(5,6,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(1,1,1),(2,3,4),(5,6,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,5),(1,1,1),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,1),(2,2,3),(5,6,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,3,4),(1,1,1),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,3,4),(1,1,1)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((2,2,3),(2,3,4),(1,2,3),(3,5,8)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,6),(2,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,8),(3,4,6),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(3,5,8),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((4,8,13),(1,2,3),(3,5,8),(6,11,18)); lvl=1; h,r-ind=1,1
    [3,3]((7,13,21),(3,5,8),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,13),(7,13,21),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,18),(7,13,21),(3,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,13),(6,11,18),(7,13,21)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(4,8,13),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,8,13),(3,6,10)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,2,3),(3,5,8),(2,3,5)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((2,2,3),(3,5,8),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(3,5,8),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,5),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(4,5,8)); lvl=2; h,r-ind=1,1
  [4,3]((5,9,15),(3,5,8),(6,11,18),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((6,11,18),(3,5,8),(8,14,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(3,5,8),(8,14,23)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,15),(6,11,18),(8,14,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(5,9,15),(8,14,23)); lvl=2; h,r-ind=1,1
  [3,3]((5,10,17),(5,9,15),(2,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((4,8,13),(3,6,10),(5,9,15),(6,11,18)); lvl=1; h,r-ind=1,1
    [3,3]((9,17,28),(5,9,15),(3,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,13),(9,17,28),(3,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,18),(4,8,13),(9,17,28)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,18),(9,17,28),(5,9,15)); lvl=2; h,r-ind=1,1
  [3,3]((5,10,17),(3,6,10),(5,9,15)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,10,17),(3,6,10)); lvl=1; h,r-ind=1,1
  [3,3]((5,10,17),(1,0,0),(2,3,5)); lvl=1; h,r-ind=1,1
```

17.50 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,11,17)); lvl=0; h,r-ind=17,289
  [3,3]((2,3,4),(1,2,2),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((4,9,13),(0,1,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,11,17),(4,9,13),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(5,11,17),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,11,17),(4,9,13),(0,1,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

17.51 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,15,17)); lvl=0; h,r-ind=17,289
  [4,3]((8,21,23),(1,2,2),(1,3,3),(4,12,13)); lvl=1; h,r-ind=1,1
    [3,3]((6,16,17),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((4,11,12),(4,12,13),(6,16,17),(1,3,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,3,3),(4,12,13),(5,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,12),(4,12,13),(5,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((6,16,17),(1,3,3),(5,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,12),(6,16,17),(5,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,12),(6,16,17),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,12),(8,21,23),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(4,12,13)); lvl=1; h,r-ind=1,1
  [3,3]((3,9,10),(0,1,0),(4,12,13)); lvl=1; h,r-ind=1,1
  [3,3]((5,15,17),(3,9,10),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((3,9,10),(8,21,23),(6,17,19),(4,12,13)); lvl=1; h,r-ind=1,1
    [3,3]((7,19,21),(4,11,12),(8,21,23)); lvl=2; h,r-ind=1,1
    [4,3]((10,28,31),(17,48,53),(7,19,21),(4,11,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,11,12),(17,48,53),(14,39,43)); lvl=3; h,r-ind=1,1
      [3,3]((10,28,31),(17,48,53),(14,39,43)); lvl=3; h,r-ind=1,1
      [3,3]((10,28,31),(7,19,21),(14,39,43)); lvl=3; h,r-ind=1,1
      [3,3]((7,19,21),(4,11,12),(14,39,43)); lvl=3; h,r-ind=1,1
    [4,3]((4,12,13),(3,9,10),(17,48,53),(4,11,12)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,9,10),(17,48,53),(7,20,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,12),(17,48,53),(7,20,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,12,13),(3,9,10),(7,20,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,12),(4,12,13),(7,20,22)); lvl=3; h,r-ind=1,1
    [3,3]((10,28,31),(7,19,21),(6,17,19)); lvl=2; h,r-ind=1,1
    [4,3]((3,9,10),(10,28,31),(17,48,53),(6,17,19)); lvl=2; h,r-ind=1,1
      [3,3]((10,28,31),(13,37,41),(17,48,53)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,10),(13,37,41),(17,48,53)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,19),(3,9,10),(13,37,41)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,19),(10,28,31),(13,37,41)); lvl=3; h,r-ind=1,1
  [3,3]((5,15,17),(3,9,10),(6,17,19)); lvl=1; h,r-ind=1,1
  [4,3]((3,8,9),(4,9,10),(8,21,23),(6,17,19)); lvl=1; h,r-ind=1,1
    [4,3]((7,19,21),(4,10,11),(10,27,30),(17,45,50)); lvl=2; h,r-ind=1,1
      [3,3]((14,37,41),(4,10,11),(17,45,50)); lvl=3; h,r-ind=1,1
      [3,3]((14,37,41),(10,27,30),(17,45,50)); lvl=3; h,r-ind=1,1
      [3,3]((7,19,21),(14,37,41),(10,27,30)); lvl=3; h,r-ind=1,1
      [3,3]((7,19,21),(14,37,41),(4,10,11)); lvl=3; h,r-ind=1,1
    [4,3]((3,8,9),(6,17,19),(10,27,30),(17,45,50)); lvl=2; h,r-ind=1,1
      [3,3]((6,17,19),(13,35,39),(10,27,30)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((17,45,50),(13,35,39),(10,27,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(6,17,19),(13,35,39)); lvl=3; h,r-ind=1,1
      [3,3]((17,45,50),(3,8,9),(13,35,39)); lvl=3; h,r-ind=1,1
    [4,3]((3,8,9),(4,9,10),(4,10,11),(17,45,50)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((7,18,20),(4,10,11),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(7,18,20),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((17,45,50),(7,18,20),(4,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(17,45,50),(7,18,20)); lvl=3; h,r-ind=1,1
    [3,3]((6,17,19),(7,19,21),(10,27,30)); lvl=2; h,r-ind=1,1
    [3,3]((7,19,21),(8,21,23),(4,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((5,15,17),(3,8,9),(6,17,19)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(5,15,17),(3,8,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,8,9),(4,9,10)); lvl=1; h,r-ind=1,1
  [4,3]((4,9,10),(8,21,23),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((4,10,11),(1,2,2),(8,21,23)); lvl=2; h,r-ind=1,1
    [3,3]((4,10,11),(6,13,14),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(6,13,14),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((4,9,10),(4,10,11),(1,1,1),(6,13,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,10,11),(6,13,14),(5,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(6,13,14),(5,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,10),(4,10,11),(5,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(4,9,10),(5,11,12)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,9,10),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
```

17.52 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,16,17)); lvl=0; h,r-ind=17,289
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((5,16,17),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(5,16,17),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((5,16,17),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(4,13,13)); lvl=1; h,r-ind=1,1
  [3,3]((5,16,17),(0,1,0),(4,13,13)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((5,16,17),(1,3,3),(4,13,13)); lvl=1; h,r-ind=1,1
```

17.53 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,8,17)); lvl=0; h,r-ind=17,289
  [3,3]((2,2,3),(0,1,0),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((2,2,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((8,8,17),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(1,1,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((8,8,17),(1,1,2),(0,1,0)); lvl=1; h,r-ind=1,1
```

17.54 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,14,17)); lvl=0; h,r-ind=17,289
  [4,3]((4,7,8),(5,8,9),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,9),(2,3,3),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(1,2,2),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(5,8,9),(6,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((8,14,17),(4,7,8),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(8,14,17),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((8,14,17),(4,7,8),(3,5,6)); lvl=1; h,r-ind=1,1
  [4,3]((4,6,7),(1,1,1),(5,8,9),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((6,9,10),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,9),(6,9,10),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,7),(5,8,9),(6,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,7),(6,9,10),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((4,7,8),(3,5,6),(4,6,7),(5,8,9)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,6),(4,6,7),(8,13,15)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,9),(4,6,7),(8,13,15)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((4,7,8),(3,5,6),(8,13,15)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,9),(4,7,8),(8,13,15)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(4,6,7),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,6),(1,0,0),(4,6,7)); lvl=1; h,r-ind=1,1
  [3,3]((8,14,17),(3,5,6),(1,0,0)); lvl=1; h,r-ind=1,1
```

17.55 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,16,17)); lvl=0; h,r-ind=17,289
  [3,3]((2,3,3),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((8,16,17),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((8,16,17),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((8,16,17),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(8,16,17),(1,1,1)); lvl=1; h,r-ind=1,1
```

17.56 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,10,17)); lvl=0; h,r-ind=17,289
  [3,3]((2,2,3),(1,0,0),(3,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((10,10,17),(1,0,0),(3,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(3,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((10,10,17),(0,1,0),(3,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,1,1)); lvl=1; h,r-ind=1,1
```

17.57 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,16,17)); lvl=0; h,r-ind=17,289
  [3,3]((0,1,0),(3,5,5),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((10,16,17),(3,5,5),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((10,16,17),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(10,16,17),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((10,16,17),(0,1,0),(3,5,5)); lvl=1; h,r-ind=1,1
```

17.58 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,11,17)); lvl=0; h,r-ind=17,289
  [3,3]((1,0,0),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((11,11,17),(0,1,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((11,11,17),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

17.59 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,16,17)); lvl=0; h,r-ind=17,289
  [3,3]((3,4,4),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((11,16,17),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(11,16,17),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(3,4,4),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((11,16,17),(2,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((11,16,17),(2,3,3),(3,4,4)); lvl=1; h,r-ind=1,1
```

17.60 Resolved

```
[3,3]((1,0,0),(0,1,0),(16,16,17)); lvl=0; h,r-ind=17,289
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((16,16,17),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((16,16,17),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

18 H-index = 18

18.0 Classification

```
[3,3]((1,0,0),(0,1,0),(0,1,18))
  [3,3]((1,0,0),(0,1,0),(0,1,18))
  [3,3]((1,0,0),(0,1,0),(1,0,18))
  [3,3]((1,0,0),(1,18,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,5,18))
  [3,3]((1,0,0),(0,1,0),(0,5,18))
  [3,3]((1,0,0),(0,1,0),(0,11,18))
  [3,3]((1,0,0),(0,1,0),(5,0,18))
  [3,3]((1,0,0),(0,1,0),(11,0,18))
  [3,3]((1,0,0),(5,18,0),(0,0,1))
  [3,3]((1,0,0),(11,18,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,7,18))
  [3,3]((1,0,0),(0,1,0),(0,7,18))
  [3,3]((1,0,0),(0,1,0),(0,13,18))
  [3,3]((1,0,0),(0,1,0),(7,0,18))
  [3,3]((1,0,0),(0,1,0),(13,0,18))
  [3,3]((1,0,0),(7,18,0),(0,0,1))
  [3,3]((1,0,0),(13,18,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,17,18))
  [3,3]((1,0,0),(0,1,0),(0,17,18))
  [3,3]((1,0,0),(0,1,0),(17,0,18))
  [3,3]((1,0,0),(17,18,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(1,1,18))
  [3,3]((1,0,0),(0,1,0),(1,1,18))
  [3,3]((1,0,0),(0,1,0),(1,17,18))
  [3,3]((1,0,0),(0,1,0),(17,1,18))
[3,3]((1,0,0),(0,1,0),(1,2,18))
  [3,3]((1,0,0),(0,1,0),(1,2,18))
  [3,3]((1,0,0),(0,1,0),(1,16,18))
  [3,3]((1,0,0),(0,1,0),(2,1,18))
  [3,3]((1,0,0),(0,1,0),(16,1,18))
  [3,3]((1,0,0),(1,2,0),(0,1,9))
  [3,3]((1,0,0),(1,2,0),(0,8,9))
[3,3]((1,0,0),(0,1,0),(1,3,18))
  [3,3]((1,0,0),(0,1,0),(1,3,18))
  [3,3]((1,0,0),(0,1,0),(1,15,18))
  [3,3]((1,0,0),(0,1,0),(3,1,18))
  [3,3]((1,0,0),(0,1,0),(15,1,18))
  [3,3]((1,0,0),(1,3,0),(0,1,6))
  [3,3]((1,0,0),(1,3,0),(0,5,6))
[3,3]((1,0,0),(0,1,0),(1,4,18))
  [3,3]((1,0,0),(0,1,0),(1,4,18))
  [3,3]((1,0,0),(0,1,0),(1,14,18))
  [3,3]((1,0,0),(0,1,0),(4,1,18))
  [3,3]((1,0,0),(0,1,0),(14,1,18))
  [3,3]((1,0,0),(1,2,0),(0,4,9))
  [3,3]((1,0,0),(1,2,0),(0,5,9))
[3,3]((1,0,0),(0,1,0),(1,5,18))
  [3,3]((1,0,0),(0,1,0),(1,5,18))
  [3,3]((1,0,0),(0,1,0),(1,13,18))
  [3,3]((1,0,0),(0,1,0),(5,1,18))
  [3,3]((1,0,0),(0,1,0),(7,11,18))
  [3,3]((1,0,0),(0,1,0),(11,7,18))
  [3,3]((1,0,0),(0,1,0),(13,1,18))
[3,3]((1,0,0),(0,1,0),(1,6,18))
  [3,3]((1,0,0),(0,1,0),(1,6,18))
  [3,3]((1,0,0),(0,1,0),(1,12,18))
  [3,3]((1,0,0),(0,1,0),(6,1,18))
  [3,3]((1,0,0),(0,1,0),(12,1,18))
  [3,3]((1,0,0),(1,6,0),(0,1,3))
  [3,3]((1,0,0),(1,6,0),(0,2,3))
[3,3]((1,0,0),(0,1,0),(1,7,18))
  [3,3]((1,0,0),(0,1,0),(1,7,18))
  [3,3]((1,0,0),(0,1,0),(1,11,18))
```

```
  [3,3]((1,0,0),(0,1,0),(5,13,18))
  [3,3]((1,0,0),(0,1,0),(7,1,18))
  [3,3]((1,0,0),(0,1,0),(11,1,18))
  [3,3]((1,0,0),(0,1,0),(13,5,18))
[3,3]((1,0,0),(0,1,0),(1,8,18))
  [3,3]((1,0,0),(0,1,0),(1,8,18))
  [3,3]((1,0,0),(0,1,0),(1,10,18))
  [3,3]((1,0,0),(0,1,0),(8,1,18))
  [3,3]((1,0,0),(0,1,0),(10,1,18))
  [3,3]((1,0,0),(1,2,0),(0,2,9))
  [3,3]((1,0,0),(1,2,0),(0,7,9))
[3,3]((1,0,0),(0,1,0),(1,9,18))
  [3,3]((1,0,0),(0,1,0),(1,9,18))
  [3,3]((1,0,0),(0,1,0),(9,1,18))
  [3,3]((1,0,0),(1,9,0),(0,1,2))
[3,3]((1,0,0),(0,1,0),(2,3,18))
  [3,3]((1,0,0),(0,1,0),(2,3,18))
  [3,3]((1,0,0),(0,1,0),(3,2,18))
  [3,3]((1,0,0),(1,2,0),(8,1,9))
  [3,3]((1,0,0),(1,2,0),(8,6,9))
  [3,3]((1,0,0),(2,3,0),(0,1,6))
  [3,3]((1,0,0),(2,3,0),(5,4,6))
[3,3]((1,0,0),(0,1,0),(2,5,18))
  [3,3]((1,0,0),(0,1,0),(2,5,18))
  [3,3]((1,0,0),(0,1,0),(5,2,18))
  [3,3]((1,0,0),(0,1,0),(11,14,18))
  [3,3]((1,0,0),(0,1,0),(14,11,18))
  [3,3]((1,0,0),(1,2,0),(7,1,9))
  [3,3]((1,0,0),(1,2,0),(7,4,9))
[3,3]((1,0,0),(0,1,0),(2,7,18))
  [3,3]((1,0,0),(0,1,0),(2,7,18))
  [3,3]((1,0,0),(0,1,0),(7,2,18))
  [3,3]((1,0,0),(0,1,0),(10,13,18))
  [3,3]((1,0,0),(0,1,0),(13,10,18))
  [3,3]((1,0,0),(1,2,0),(6,1,9))
  [3,3]((1,0,0),(1,2,0),(6,2,9))
[3,3]((1,0,0),(0,1,0),(2,9,18))
  [3,3]((1,0,0),(0,1,0),(2,9,18))
  [3,3]((1,0,0),(0,1,0),(9,2,18))
  [3,3]((1,0,0),(1,2,0),(5,0,9))
  [3,3]((1,0,0),(1,2,0),(5,1,9))
  [3,3]((1,0,0),(2,9,0),(0,1,2))
  [3,3]((1,0,0),(5,9,0),(1,0,2))
[3,3]((1,0,0),(0,1,0),(2,11,18))
  [3,3]((1,0,0),(0,1,0),(2,11,18))
  [3,3]((1,0,0),(0,1,0),(5,8,18))
  [3,3]((1,0,0),(0,1,0),(8,5,18))
  [3,3]((1,0,0),(0,1,0),(11,2,18))
  [3,3]((1,0,0),(1,2,0),(4,1,9))
  [3,3]((1,0,0),(1,2,0),(4,7,9))
[3,3]((1,0,0),(0,1,0),(2,13,18))
  [3,3]((1,0,0),(0,1,0),(2,13,18))
  [3,3]((1,0,0),(0,1,0),(4,7,18))
  [3,3]((1,0,0),(0,1,0),(7,4,18))
  [3,3]((1,0,0),(0,1,0),(13,2,18))
  [3,3]((1,0,0),(1,2,0),(3,1,9))
  [3,3]((1,0,0),(1,2,0),(3,5,9))
[3,3]((1,0,0),(0,1,0),(2,15,18))
  [3,3]((1,0,0),(0,1,0),(2,15,18))
  [3,3]((1,0,0),(0,1,0),(15,2,18))
  [3,3]((1,0,0),(1,2,0),(2,1,9))
  [3,3]((1,0,0),(1,2,0),(2,3,9))
  [3,3]((1,0,0),(2,3,0),(0,5,6))
  [3,3]((1,0,0),(2,3,0),(1,2,6))
[3,3]((1,0,0),(0,1,0),(2,17,18))
  [3,3]((1,0,0),(0,1,0),(2,17,18))
  [3,3]((1,0,0),(0,1,0),(17,2,18))
  [3,3]((1,0,0),(1,2,0),(1,1,9))
[3,3]((1,0,0),(0,1,0),(3,4,18))
  [3,3]((1,0,0),(0,1,0),(3,4,18))
  [3,3]((1,0,0),(0,1,0),(4,3,18))
  [3,3]((1,0,0),(1,2,0),(4,3,9))
  [3,3]((1,0,0),(1,2,0),(4,5,9))
  [3,3]((1,0,0),(1,3,0),(5,1,6))
  [3,3]((1,0,0),(1,3,0),(5,2,6))
[3,3]((1,0,0),(0,1,0),(3,5,18))
  [3,3]((1,0,0),(0,1,0),(3,5,18))
  [3,3]((1,0,0),(0,1,0),(3,11,18))
  [3,3]((1,0,0),(0,1,0),(5,3,18))
  [3,3]((1,0,0),(0,1,0),(11,3,18))
```

```
  [3,3]((1,0,0),(2,3,0),(3,1,6))
  [3,3]((1,0,0),(2,3,0),(5,1,6))
[3,3]((1,0,0),(0,1,0),(3,7,18))
  [3,3]((1,0,0),(0,1,0),(3,7,18))
  [3,3]((1,0,0),(0,1,0),(7,3,18))
  [3,3]((1,0,0),(0,1,0),(13,15,18))
  [3,3]((1,0,0),(0,1,0),(15,13,18))
  [3,3]((1,0,0),(1,3,0),(4,1,6))
  [3,3]((1,0,0),(1,3,0),(4,5,6))
[3,3]((1,0,0),(0,1,0),(3,8,18))
  [3,3]((1,0,0),(0,1,0),(3,8,18))
  [3,3]((1,0,0),(0,1,0),(8,3,18))
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```

18.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,18)); lvl=0; h,r-ind=18,18
  [3,3]((1,0,0),(0,1,9),(0,1,0)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((1,0,0),(0,1,18),(0,1,9)); lvl=1; h,r-ind=9,9; optimized-h
```

18.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,5,18)); lvl=0; h,r-ind=18,18
  [3,3]((1,0,0),(0,1,2),(0,3,10)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,0,0),(0,2,7),(0,3,10)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,5,18),(0,2,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,1,2)); lvl=1; h,r-ind=2,2; optimized-h
```

18.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,7,18)); lvl=0; h,r-ind=18,18
  [3,3]((1,0,0),(0,3,7),(0,2,3)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,2,5),(0,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,2,5),(0,7,18)); lvl=1; h,r-ind=1,1
```

18.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,17,18)); lvl=0; h,r-ind=18,18
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,17,18),(0,1,1)); lvl=1; h,r-ind=1,1
```

18.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,18)); lvl=0; h,r-ind=18,324
  [3,3]((1,1,17),(1,1,9),(1,0,0)); lvl=1; h,r-ind=8,8; optimized-h
  [3,3]((0,1,0),(1,1,9),(1,0,0)); lvl=1; h,r-ind=9,81; optimized-h
  [3,3]((1,1,18),(1,1,17),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,17),(1,1,9)); lvl=1; h,r-ind=8,8; optimized-h
  [3,3]((1,1,18),(0,1,0),(1,1,17)); lvl=1; h,r-ind=1,1
```

18.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,18)); lvl=0; h,r-ind=18,162
  [4,3]((1,0,0),(1,1,9),(1,2,16),(1,2,9)); lvl=1; h,r-ind=1,2
    [4,3]((1,2,16),(2,4,25),(1,1,8),(2,2,13)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,16),(1,2,14),(1,1,8),(1,1,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,8),(3,4,30),(1,1,7)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,15),(1,2,14),(3,4,30),(1,1,7)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,2,14),(2,3,22),(1,1,7)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,30),(2,3,22),(1,1,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,15),(1,2,14),(2,3,22)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,30),(1,2,15),(2,3,22)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,16),(1,2,15),(1,1,8),(3,4,30)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,23),(1,2,15),(3,4,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,23),(1,1,8),(3,4,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,16),(2,3,23),(1,1,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,16),(2,3,23),(1,2,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,14),(1,2,13),(1,1,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,13),(2,3,19),(1,1,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,19),(2,2,13),(1,1,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,13),(2,4,25),(2,3,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,8),(2,2,13)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,2,9),(1,1,5),(2,4,25),(2,2,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,6),(2,3,19),(2,2,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,12),(1,1,6),(2,3,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,25),(1,2,12),(2,3,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,12),(1,2,11),(1,1,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,9),(1,2,11),(1,1,5),(1,1,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,5),(3,4,21),(1,1,6)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,10),(1,2,11),(3,4,21),(1,1,6)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,16),(1,1,6),(1,2,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,10),(2,3,16),(1,2,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,21),(2,3,16),(1,1,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,10),(3,4,21),(2,3,16)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,9),(1,2,10),(1,1,5),(3,4,21)); lvl=4; h,r-ind=1,2; alert-r-inc
```

```
          [3,3]((3,4,21),(1,2,10),(2,3,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,9),(1,2,10),(2,3,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(1,2,9),(2,3,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(3,4,21),(2,3,15)); lvl=5; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,5),(2,2,13)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(1,2,9),(1,1,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,9),(1,2,16),(1,1,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,9),(1,1,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,16),(1,2,9)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,2,18),(0,1,0),(1,2,16)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,9)); lvl=1; h,r-ind=9,81; optimized-h
  [3,3]((1,2,18),(1,1,9),(1,2,16)); lvl=1; h,r-ind=2,2; optimized-h
```

18.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,18)); lvl=0; h,r-ind=18,108
  [4,3]((1,0,0),(2,3,18),(1,3,9),(1,3,15)); lvl=1; h,r-ind=9,3
    [4,3]((2,3,9),(4,6,27),(1,3,9),(1,3,12)); lvl=2; h,r-ind=9,3
      [4,3]((2,4,15),(1,2,8),(2,6,21),(1,3,12)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,8),(5,12,45),(1,3,12),(1,3,11)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((1,3,11),(2,5,19),(1,3,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,8),(2,5,19),(1,3,12)); lvl=5; h,r-ind=1,1
          [3,3]((5,12,45),(1,2,8),(2,5,19)); lvl=5; h,r-ind=1,1
          [3,3]((5,12,45),(1,3,11),(2,5,19)); lvl=5; h,r-ind=1,1
        [4,3]((2,5,18),(3,7,26),(5,12,45),(1,3,11)); lvl=4; h,r-ind=1,1
          [3,3]((4,10,37),(3,7,26),(5,12,45)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,11),(4,10,37),(5,12,45)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,18),(1,3,11),(4,10,37)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,18),(4,10,37),(3,7,26)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,18),(2,6,21),(1,3,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,15),(2,5,18),(3,7,26)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,8),(2,4,15),(3,7,26),(5,12,45)); lvl=4; h,r-ind=1,1
          [3,3]((4,9,34),(2,4,15),(3,7,26)); lvl=5; h,r-ind=1,1
          [3,3]((5,12,45),(4,9,34),(3,7,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,8),(5,12,45),(4,9,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,8),(4,9,34),(2,4,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,8),(5,9,39),(1,3,12)); lvl=3; h,r-ind=3,3; optimized-h
      [4,3]((4,6,23),(2,4,15),(1,2,8),(2,3,13)); lvl=3; h,r-ind=1,1
        [4,3]((7,12,47),(4,7,27),(1,2,8),(2,4,15)); lvl=4; h,r-ind=1,1
          [3,3]((1,2,8),(5,9,35),(2,4,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,27),(5,9,35),(2,4,15)); lvl=5; h,r-ind=1,1
          [3,3]((7,12,47),(4,7,27),(5,9,35)); lvl=5; h,r-ind=1,1
          [3,3]((7,12,47),(1,2,8),(5,9,35)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,19),(4,7,27),(2,4,15)); lvl=4; h,r-ind=1,1
        [4,3]((3,5,19),(2,3,12),(7,12,47),(4,7,27)); lvl=4; h,r-ind=1,1
          [3,3]((6,10,39),(2,3,12),(7,12,47)); lvl=5; h,r-ind=1,1
          [3,3]((6,10,39),(4,7,27),(7,12,47)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,19),(6,10,39),(4,7,27)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,19),(6,10,39),(2,3,12)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,19),(4,6,23),(2,3,12)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,12),(7,12,47),(2,3,13),(1,2,8)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((3,5,20),(1,2,8),(7,12,47)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,12),(3,5,20),(7,12,47)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,20),(2,3,13),(1,2,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,12),(3,5,20),(2,3,13)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,8),(4,6,27),(5,9,39),(2,3,13)); lvl=3; h,r-ind=1,1
        [4,3]((2,3,13),(3,5,22),(4,6,27),(6,10,43)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,8,35),(4,6,27),(3,5,22)); lvl=5; h,r-ind=1,1
          [3,3]((6,10,43),(5,8,35),(3,5,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,13),(6,10,43),(5,8,35)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,13),(5,8,35),(4,6,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,8),(2,3,13),(6,10,43)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,8),(3,5,22),(6,10,43)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,8),(3,5,22),(5,9,39)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,6),(2,4,15),(1,3,9),(2,6,21)); lvl=3; h,r-ind=3,1
        [3,3]((2,5,18),(2,6,21),(1,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,18),(1,2,7),(1,3,10)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,6),(1,2,7),(1,3,9),(1,3,10)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,9),(1,3,10),(2,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,7),(1,3,10),(2,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(1,3,9),(2,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,7),(1,2,6),(2,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,18),(2,4,15),(1,2,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,6),(2,3,9),(4,6,23),(2,4,15)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,7),(2,3,11),(4,6,21)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,6),(1,2,7),(2,3,9),(4,6,21)); lvl=4; h,r-ind=1,1
          [3,3]((1,2,7),(2,3,10),(4,6,21)); lvl=5; h,r-ind=1,1
```

```
        [3,3]((1,2,7),(2,3,10),(4,7,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(1,2,6),(4,7,23)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,6),(2,3,9),(2,3,10),(4,7,23)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,10),(2,3,9),(3,5,16)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,6),(2,3,9),(3,5,16)); lvl=6; h,r-ind=1,1
          [3,3]((4,7,23),(2,3,10),(3,5,16)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,6),(4,7,23),(3,5,16)); lvl=6; h,r-ind=1,1
      [3,3]((1,2,7),(3,5,19),(2,3,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,19),(4,6,23),(2,3,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(3,5,19),(2,4,15)); lvl=4; h,r-ind=1,1
  [5,3]((4,6,27),(1,2,11),(2,3,15),(1,3,15),(1,3,12)); lvl=2; h,r-ind=3,3
    [4,3]((1,2,9),(2,4,19),(1,3,12),(2,6,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,13),(2,5,23),(2,6,27)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,13),(5,12,54),(2,5,23),(3,7,32)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,54),(4,10,45),(3,7,32)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,23),(4,10,45),(3,7,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,13),(2,5,23),(4,10,45)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,13),(5,12,54),(4,10,45)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,9),(1,3,12),(1,3,13),(5,12,54)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((1,3,13),(2,5,22),(1,3,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,9),(2,5,22),(1,3,12)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,54),(1,3,13),(2,5,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,9),(5,12,54),(2,5,22)); lvl=5; h,r-ind=1,1
      [4,3]((2,4,19),(1,2,9),(5,12,54),(3,7,32)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,41),(1,2,9),(5,12,54)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,41),(3,7,32),(5,12,54)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,19),(4,9,41),(3,7,32)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,19),(4,9,41),(1,2,9)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,19),(2,5,23),(3,7,32)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,10),(2,4,19),(1,3,15),(2,6,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,14),(2,5,23),(2,6,27)); lvl=4; h,r-ind=1,1
      [4,3]((5,12,57),(1,3,14),(2,5,23),(3,7,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,14),(4,10,47),(2,5,23)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,33),(4,10,47),(2,5,23)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,33),(5,12,57),(4,10,47)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,57),(1,3,14),(4,10,47)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,10),(5,12,57),(1,3,14),(1,3,15)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,5,24),(5,12,57),(1,3,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,15),(2,5,24),(1,3,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,10),(1,3,15),(2,5,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,10),(2,5,24),(5,12,57)); lvl=5; h,r-ind=1,1
      [4,3]((2,4,19),(1,2,10),(5,12,57),(3,7,33)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,43),(1,2,10),(5,12,57)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,43),(3,7,33),(5,12,57)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,19),(4,9,43),(3,7,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,19),(4,9,43),(1,2,10)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,19),(2,5,23),(3,7,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,11),(1,2,10),(1,3,15)); lvl=3; h,r-ind=1,1
    [3,3]((5,9,39),(1,2,9),(1,3,12)); lvl=3; h,r-ind=3,3; optimized-h
    [3,3]((2,3,14),(1,2,9),(2,4,19)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,15),(1,2,10),(2,3,14),(2,4,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,24),(1,2,10),(2,4,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,14),(3,5,24),(2,4,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,15),(3,5,24),(1,2,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,14),(2,3,15),(3,5,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,11),(2,3,15),(1,2,10)); lvl=3; h,r-ind=1,1
    [4,3]((4,6,27),(5,9,39),(2,3,14),(1,2,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,9),(3,5,22),(5,9,39)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,45),(1,2,9),(3,5,22)); lvl=4; h,r-ind=1,1
      [4,3]((4,6,27),(6,10,45),(2,3,14),(3,5,22)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,8,36),(2,3,14),(6,10,45)); lvl=5; h,r-ind=1,1
        [3,3]((5,8,36),(3,5,22),(6,10,45)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,27),(5,8,36),(3,5,22)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,27),(5,8,36),(2,3,14)); lvl=5; h,r-ind=1,1
      [3,3]((6,10,45),(2,3,14),(1,2,9)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,0),(4,6,27),(1,1,6),(2,3,15)); lvl=2; h,r-ind=3,3
    [3,3]((1,1,5),(2,3,15),(2,3,14)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,27),(1,1,5),(4,6,27),(2,3,14)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,18),(6,8,37),(2,3,14),(4,6,27)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,32),(6,8,37),(2,3,14)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,27),(5,7,32),(2,3,14)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,18),(4,6,27),(5,7,32)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,18),(5,7,32),(6,8,37)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,5),(6,8,37),(2,3,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,18),(1,1,5),(6,8,37)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,18),(5,6,27),(1,1,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(5,6,27),(1,1,5)); lvl=3; h,r-ind=3,3; optimized-h
    [3,3]((1,1,6),(1,1,5),(2,3,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,6),(1,1,5)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,11),(1,1,6),(2,3,15)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
```

```
    [3,3]((1,2,11),(2,3,18),(1,1,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,9),(4,6,27)); lvl=2; h,r-ind=27,9; alert-h-inc; alert-r-inc
      [3,3]((1,1,3),(1,0,0),(1,1,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,27),(1,0,0),(1,1,4)); lvl=3; h,r-ind=3,3; optimized-h
      [4,3]((4,6,27),(5,6,27),(2,3,13),(1,1,4)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,4),(3,4,18),(5,6,27)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,35),(1,1,4),(3,4,18)); lvl=4; h,r-ind=1,1
        [4,3]((4,6,27),(6,8,35),(2,3,13),(3,4,18)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,7,31),(6,8,35),(2,3,13)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,27),(5,7,31),(2,3,13)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,18),(4,6,27),(5,7,31)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,18),(5,7,31),(6,8,35)); lvl=5; h,r-ind=1,1
        [3,3]((6,8,35),(2,3,13),(1,1,4)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,9),(4,6,23),(1,1,3),(1,1,4)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,4),(1,1,3),(5,6,21)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,9),(4,6,21),(1,1,3),(5,6,21)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((1,1,3),(7,9,30),(3,4,14),(5,6,21)); lvl=5; h,r-ind=1,3
            [3,3]((4,5,17),(7,9,30),(3,4,14)); lvl=6; h,r-ind=1,1
            [3,3]((5,6,21),(4,5,17),(3,4,14)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,3),(5,6,21),(4,5,17)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,3),(4,5,17),(7,9,30)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,10),(7,9,30),(3,4,14)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [3,3]((2,3,10),(4,6,21),(3,4,14)); lvl=5; h,r-ind=1,1
          [4,3]((1,1,3),(2,3,9),(2,3,10),(7,9,30)); lvl=5; h,r-ind=1,3
            [3,3]((3,4,13),(2,3,10),(2,3,9)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,3),(3,4,13),(2,3,9)); lvl=6; h,r-ind=1,1
            [3,3]((7,9,30),(3,4,13),(2,3,10)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,3),(7,9,30),(3,4,13)); lvl=6; h,r-ind=1,1
        [4,3]((2,3,11),(4,6,21),(1,1,4),(5,6,21)); lvl=4; h,r-ind=1,1
          [3,3]((1,1,4),(5,6,21),(3,4,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(6,8,29),(3,4,14)); lvl=5; h,r-ind=1,1
          [4,3]((2,3,11),(4,6,21),(6,8,29),(3,4,14)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,4,14),(6,8,29),(5,7,25)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,11),(6,8,29),(5,7,25)); lvl=6; h,r-ind=1,1
            [3,3]((4,6,21),(3,4,14),(5,7,25)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,11),(4,6,21),(5,7,25)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,4),(2,3,11),(6,8,29)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,23),(2,3,11),(1,1,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,13),(4,6,23),(1,1,4)); lvl=3; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,3,9),(1,3,15)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((1,3,18),(0,1,0),(1,3,15)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,3,18),(2,3,18),(1,3,15)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,3,9)); lvl=1; h,r-ind=9,27; optimized-h
```

18.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,4,18)); lvl=0; h,r-ind=18,162
  [4,3]((1,4,18),(1,2,8),(1,3,12),(1,2,9)); lvl=1; h,r-ind=1,2
    [3,3]((1,3,12),(1,3,13),(1,2,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,9),(1,3,13),(1,2,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,18),(1,2,9),(1,3,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,18),(1,3,12),(1,3,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,8),(1,2,9)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,4,18),(1,3,12),(1,4,14)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((0,1,0),(1,4,18),(1,4,14)); lvl=1; h,r-ind=4,4; optimized-h
  [5,3]((1,2,5),(1,2,8),(1,3,12),(1,4,9),(1,4,14)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,11),(1,4,14),(1,3,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,8),(1,3,11),(1,3,12)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,19),(2,8,23),(1,3,11),(1,4,14)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,10),(1,3,11),(1,4,14),(2,8,25)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,11),(3,10,34),(1,4,14),(1,4,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,4,13),(1,4,14),(2,7,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,11),(1,4,14),(2,7,24)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,34),(1,4,13),(2,7,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,11),(3,10,34),(2,7,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(3,10,34),(1,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,10),(2,8,25),(1,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,10),(1,3,11),(3,10,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,10),(1,4,12),(2,8,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,10),(2,7,21),(1,4,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,21),(2,8,23),(1,4,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,19),(1,3,10),(2,7,21)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,8),(2,4,13),(2,6,19),(1,3,11)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((1,3,10),(2,5,16),(2,6,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(1,3,10),(2,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(2,4,13),(2,5,16)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,7),(1,2,8),(1,3,10),(1,3,11)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,3,10),(1,3,11),(2,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(1,3,11),(2,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(1,3,10),(2,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(1,2,7),(2,5,18)); lvl=4; h,r-ind=1,1
  [4,3]((2,6,19),(1,4,9),(1,3,7),(2,8,23)); lvl=2; h,r-ind=5,1; alert-h-inc
    [4,3]((2,6,17),(2,8,21),(1,3,7),(1,4,9)); lvl=3; h,r-ind=3,1
      [4,3]((1,3,8),(1,3,7),(1,4,10),(1,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(1,4,9),(2,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(1,4,9),(2,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(1,4,10),(2,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(1,3,8),(2,7,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,19),(1,3,8),(1,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,19),(2,8,21),(1,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,19),(1,3,8),(2,6,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,9),(2,6,17),(2,8,21),(1,4,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,11),(4,14,39),(2,8,21),(2,7,19)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,14,39),(3,11,30),(2,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,21),(3,11,30),(2,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,11),(2,8,21),(3,11,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,11),(4,14,39),(3,11,30)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,9),(4,14,39),(2,6,17),(2,7,19)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,28),(2,7,19),(4,14,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,9),(3,10,28),(4,14,39)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,17),(3,10,28),(2,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,9),(2,6,17),(3,10,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,9),(1,4,11),(4,14,39)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,9),(2,7,21),(1,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,23),(2,7,21),(1,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,19),(1,3,9),(2,7,21)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,5),(2,4,13),(2,6,19),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(2,5,16),(2,4,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(1,3,9),(2,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,9),(2,6,19),(2,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(1,3,9),(2,6,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(1,2,6),(1,3,7),(2,6,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(1,3,8),(3,7,19)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,5),(1,3,7),(1,3,8),(3,7,19)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,7),(2,5,13),(1,3,8)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,19),(2,5,13),(1,3,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(1,3,7),(2,5,13)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,19),(1,2,5),(2,5,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,6),(1,2,5),(3,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,6,17),(1,3,8)); lvl=4; h,r-ind=1,1
[3,3]((1,0,0),(1,2,5),(1,2,8)); lvl=1; h,r-ind=6,6; optimized-h
[4,3]((1,0,0),(0,1,0),(1,2,5),(1,4,9)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,10),(1,4,5),(1,4,9),(1,3,7)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc
    [3,3]((1,3,6),(1,4,7),(1,4,9)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((1,3,7),(1,3,6),(1,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(2,5,10),(1,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,6),(1,3,5),(1,4,5),(1,4,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,5),(3,10,17),(1,4,6),(1,4,5)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,6),(3,10,17),(2,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(3,10,17),(2,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(1,4,6),(2,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(1,4,5),(2,7,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,6),(1,3,5),(3,10,17)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,7),(1,3,6),(3,10,17),(1,4,6)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,12),(1,3,6),(3,10,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,12),(1,4,6),(3,10,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(2,7,12),(1,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(2,7,12),(1,3,6)); lvl=5; h,r-ind=1,1
    [3,3]((2,5,10),(1,3,6),(1,3,5)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,5),(1,1,2),(2,5,10),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(1,2,4),(2,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(3,7,16),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(3,7,16),(1,1,2),(1,2,4)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,4),(3,7,16),(2,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(3,7,16),(2,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(2,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(1,1,2),(2,4,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,7),(1,2,5),(3,7,16)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,5),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,5),(1,4,9)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((1,1,2),(2,5,10),(2,2,3),(1,4,5),(2,8,9)); lvl=2; h,r-ind=3,1; alert-h-inc
    [3,3]((1,3,4),(1,4,5),(2,8,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(2,5,7),(2,5,6),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,14,18),(4,13,15),(2,5,6)); lvl=4; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,5,7),(5,14,18),(2,5,6)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,3,4),(2,5,7),(5,14,18)); lvl=4; h,r-ind=1,1
```

```
      [4,3]((1,3,4),(2,8,9),(5,14,18),(4,13,15)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,9,11),(2,7,8),(7,22,27)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,3,4),(2,8,9),(2,7,8),(7,22,27)); lvl=5; h,r-ind=1,3
          [3,3]((3,10,12),(2,8,9),(2,7,8)); lvl=6; h,r-ind=1,1
          [3,3]((7,22,27),(3,10,12),(2,7,8)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(7,22,27),(3,10,12)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(3,10,12),(2,8,9)); lvl=6; h,r-ind=1,1
        [4,3]((1,3,4),(5,14,18),(3,9,11),(7,22,27)); lvl=5; h,r-ind=1,3
          [3,3]((4,12,15),(3,9,11),(5,14,18)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(4,12,15),(5,14,18)); lvl=6; h,r-ind=1,1
          [3,3]((7,22,27),(4,12,15),(3,9,11)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(7,22,27),(4,12,15)); lvl=6; h,r-ind=1,1
        [3,3]((4,13,15),(3,9,11),(2,7,8)); lvl=5; h,r-ind=1,1
    [4,3]((2,5,7),(1,2,3),(2,2,3),(2,5,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(5,11,15),(2,2,3),(4,7,9)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,3,4),(3,6,8),(7,13,18)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,3),(5,11,15),(3,6,8),(7,13,18)); lvl=5; h,r-ind=1,3
          [3,3]((4,8,11),(5,11,15),(3,6,8)); lvl=6; h,r-ind=1,1
          [3,3]((7,13,18),(4,8,11),(3,6,8)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(7,13,18),(4,8,11)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(4,8,11),(5,11,15)); lvl=6; h,r-ind=1,1
        [4,3]((1,2,3),(2,2,3),(2,3,4),(7,13,18)); lvl=5; h,r-ind=1,3
          [3,3]((3,5,7),(2,3,4),(2,2,3)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(3,5,7),(2,2,3)); lvl=6; h,r-ind=1,1
          [3,3]((7,13,18),(3,5,7),(2,3,4)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(7,13,18),(3,5,7)); lvl=6; h,r-ind=1,1
        [3,3]((4,7,9),(2,3,4),(3,6,8)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,6),(5,11,15),(4,7,9)); lvl=4; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,5,7),(1,2,3),(5,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(2,5,7),(5,11,15)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,2),(1,2,3),(2,2,3)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(3,8,12),(1,3,5),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,6,9),(3,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(3,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,5),(2,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,5),(2,6,9)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,4),(3,8,12),(2,5,7),(4,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(4,10,15),(5,13,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,12),(4,10,15),(5,13,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,12),(5,13,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(5,13,19)); lvl=4; h,r-ind=1,1
    [5,3]((3,8,12),(1,2,4),(3,7,11),(4,10,15),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(4,10,15),(3,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,8),(3,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(3,7,11),(4,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,8),(3,7,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,10),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,7),(1,2,3),(3,7,11),(4,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,18),(3,7,11),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,7),(5,12,18),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,15),(5,12,18),(3,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,7),(4,10,15),(5,12,18)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,2),(1,2,4),(1,2,3),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(1,2,4),(3,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(1,2,3),(3,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,4,7),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,4,7),(1,2,4)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,2,3),(2,8,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [3,3]((1,4,4),(0,1,0),(2,8,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,5),(2,5,6),(1,4,4),(2,8,9)); lvl=3; h,r-ind=3,1
      [4,3]((1,3,3),(1,4,4),(2,8,9),(4,13,15)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,8),(1,4,4),(2,8,9),(4,14,15)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((1,4,4),(2,8,9),(3,11,12)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,8),(2,8,9),(3,11,12)); lvl=6; h,r-ind=1,1
          [3,3]((4,14,15),(1,4,4),(3,11,12)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,8),(4,14,15),(3,11,12)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(4,14,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(4,13,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,4,4),(4,14,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,6),(1,3,3),(4,13,15)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((2,5,6),(2,5,5),(1,3,3)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,5),(2,2,3),(2,5,6),(1,1,1)); lvl=3; h,r-ind=3,1
      [4,3]((1,2,2),(1,1,1),(2,2,3),(4,7,9)); lvl=4; h,r-ind=1,1
        [4,3]((4,6,7),(2,3,4),(2,2,3),(1,1,1)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((4,6,7),(2,3,4),(3,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(4,6,7),(3,4,5)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,2),(4,6,7),(1,1,1)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((1,2,2),(4,6,7),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(2,3,4),(4,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(2,5,6),(4,7,9)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
        [3,3]((2,5,5),(1,2,2),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(1,4,4),(0,1,0)); lvl=3; h,r-ind=3,3; optimized-h
      [3,3]((2,5,5),(1,1,1),(0,1,0)); lvl=3; h,r-ind=3,3; optimized-h
      [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(2,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,9),(1,4,14)); lvl=1; h,r-ind=5,5; optimized-h
```

18.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,5,18)); lvl=0; h,r-ind=18,324
  [5,3]((1,3,10),(2,5,16),(2,3,10),(1,2,7),(2,6,21)); lvl=1; h,r-ind=1,1
    [6,3]((2,4,13),(3,6,20),(5,11,37),(6,14,47),(3,7,23),(5,12,40)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,30),(5,11,37),(3,6,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,13),(4,9,30),(3,6,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,13),(4,9,30),(3,7,23)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,30),(6,14,47),(5,11,37)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,30),(6,14,47),(5,12,40)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,30),(3,7,23),(5,12,40)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,10),(2,5,16),(3,7,23),(5,12,40)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,16),(4,10,33),(3,7,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,40),(4,10,33),(3,7,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,10),(5,12,40),(4,10,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,10),(2,5,16),(4,10,33)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,10),(6,14,47),(2,5,17),(5,12,40)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,17),(6,14,47),(7,17,57)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,40),(6,14,47),(7,17,57)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,10),(2,5,17),(7,17,57)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,40),(1,3,10),(7,17,57)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,10),(2,6,21),(2,5,17)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,7),(5,11,37),(6,14,47),(2,5,17)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,37),(6,14,47),(7,16,54)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,17),(6,14,47),(7,16,54)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(5,11,37),(7,16,54)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,17),(1,2,7),(7,16,54)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,21),(1,2,7),(2,5,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,16),(2,4,13),(3,7,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(2,4,13),(3,6,20)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,10),(1,2,7),(3,6,20),(5,11,37)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,7),(5,11,37),(4,8,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,20),(5,11,37),(4,8,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(3,6,20),(4,8,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(1,2,7),(4,8,27)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,18),(1,2,7),(2,6,21)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,5,18),(1,2,7)); lvl=1; h,r-ind=1,1
  [4,3]((1,5,18),(1,3,10),(1,4,13),(2,6,21)); lvl=1; h,r-ind=1,2
    [3,3]((1,4,13),(1,4,14),(1,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,21),(1,4,14),(1,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,18),(2,6,21),(1,4,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,18),(1,4,13),(1,4,14)); lvl=2; h,r-ind=1,1
  [5,3]((1,4,12),(1,3,10),(1,4,13),(1,3,9),(2,5,16)); lvl=1; h,r-ind=1,1
    [3,3]((3,10,32),(1,4,13),(1,3,10)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,19),(4,13,41),(3,10,32),(1,3,10)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,32),(4,13,41),(5,16,51)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,19),(4,13,41),(5,16,51)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,10),(2,6,19),(5,16,51)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,10),(3,10,32),(5,16,51)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,19),(2,5,16),(1,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,9),(2,6,19),(2,5,16)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,9),(3,10,31),(2,6,19),(4,13,41)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,31),(4,13,41),(5,16,50)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,19),(4,13,41),(5,16,50)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,9),(3,10,31),(5,16,50)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,19),(1,3,9),(5,16,50)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,12),(1,3,9),(3,10,31)); lvl=2; h,r-ind=1,1
    [5,3]((1,4,12),(3,10,31),(4,13,41),(3,10,32),(1,4,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,22),(4,13,41),(3,10,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,12),(2,7,22),(3,10,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,22),(4,13,41),(3,10,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,22),(1,4,13),(3,10,32)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,12),(2,7,22),(1,4,13)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,18),(1,5,13),(1,4,12),(1,4,13)); lvl=1; h,r-ind=1,1
    [4,3]((1,5,13),(2,10,31),(1,4,12),(6,25,78)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc
      [5,3]((1,4,12),(6,25,78),(3,13,40),(6,26,81),(7,30,91)); lvl=3; h,r-ind=1,1
```

```
  [4,3]((1,4,12),(6,25,78),(4,17,53),(9,38,117)); lvl=4; h,r-ind=1,3; alert-r-inc
    [3,3]((4,17,53),(5,21,65),(6,25,78)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,12),(5,21,65),(6,25,78)); lvl=5; h,r-ind=1,1
    [3,3]((9,38,117),(4,17,53),(5,21,65)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,12),(9,38,117),(5,21,65)); lvl=5; h,r-ind=1,1
  [5,3]((7,30,93),(11,47,145),(12,51,157),(4,17,53),(9,38,117)); lvl=4; h,r-ind=1,1
    [3,3]((8,34,105),(12,51,157),(9,38,117)); lvl=5; h,r-ind=1,1
    [3,3]((8,34,105),(4,17,53),(9,38,117)); lvl=5; h,r-ind=1,1
    [3,3]((7,30,93),(8,34,105),(4,17,53)); lvl=5; h,r-ind=1,1
    [3,3]((11,47,145),(8,34,105),(12,51,157)); lvl=5; h,r-ind=1,1
    [3,3]((7,30,93),(11,47,145),(8,34,105)); lvl=5; h,r-ind=1,1
  [4,3]((1,4,12),(4,17,52),(12,51,157),(9,38,117)); lvl=4; h,r-ind=1,1
    [3,3]((4,17,52),(12,51,157),(13,55,169)); lvl=5; h,r-ind=1,1
    [3,3]((9,38,117),(12,51,157),(13,55,169)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,12),(4,17,52),(13,55,169)); lvl=5; h,r-ind=1,1
    [3,3]((9,38,117),(1,4,12),(13,55,169)); lvl=5; h,r-ind=1,1
  [3,3]((6,26,81),(7,30,93),(4,17,53)); lvl=4; h,r-ind=1,1
  [4,3]((6,26,81),(7,30,93),(11,47,145),(3,13,40)); lvl=4; h,r-ind=1,1
    [3,3]((10,43,133),(7,30,93),(11,47,145)); lvl=5; h,r-ind=1,1
    [3,3]((3,13,40),(10,43,133),(11,47,145)); lvl=5; h,r-ind=1,1
    [3,3]((6,26,81),(3,13,40),(10,43,133)); lvl=5; h,r-ind=1,1
    [3,3]((6,26,81),(10,43,133),(7,30,93)); lvl=5; h,r-ind=1,1
  [4,3]((4,17,52),(11,47,145),(12,51,157),(3,13,40)); lvl=4; h,r-ind=1,1
    [3,3]((15,64,197),(11,47,145),(12,51,157)); lvl=5; h,r-ind=1,1
    [3,3]((4,17,52),(15,64,197),(12,51,157)); lvl=5; h,r-ind=1,1
    [3,3]((3,13,40),(4,17,52),(15,64,197)); lvl=5; h,r-ind=1,1
    [3,3]((3,13,40),(15,64,197),(11,47,145)); lvl=5; h,r-ind=1,1
  [3,3]((7,30,91),(4,17,52),(3,13,40)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,12),(7,30,91),(4,17,52)); lvl=4; h,r-ind=1,1
[5,3]((1,5,13),(2,10,29),(2,9,27),(1,4,12),(7,30,91)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,27),(7,30,91),(3,13,39)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,12),(7,30,91),(3,13,39)); lvl=4; h,r-ind=1,1
  [4,3]((5,22,65),(7,31,92),(1,4,12),(3,13,39)); lvl=4; h,r-ind=1,1
    [3,3]((7,31,92),(3,13,39),(8,35,104)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,12),(3,13,39),(8,35,104)); lvl=5; h,r-ind=1,1
    [3,3]((5,22,65),(7,31,92),(8,35,104)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,12),(5,22,65),(8,35,104)); lvl=5; h,r-ind=1,1
  [4,3]((1,5,13),(1,5,14),(5,22,65),(1,4,12)); lvl=4; h,r-ind=1,3; alert-r-inc
    [3,3]((2,9,26),(5,22,65),(1,5,14)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,13),(2,9,26),(1,5,14)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,26),(1,4,12),(5,22,65)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,13),(2,9,26),(1,4,12)); lvl=5; h,r-ind=1,1
  [5,3]((1,5,14),(3,14,41),(6,27,80),(5,22,65),(7,31,92)); lvl=4; h,r-ind=1,1
    [3,3]((4,18,53),(6,27,80),(7,31,92)); lvl=5; h,r-ind=1,1
    [3,3]((5,22,65),(4,18,53),(7,31,92)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,14),(5,22,65),(4,18,53)); lvl=5; h,r-ind=1,1
    [3,3]((3,14,41),(4,18,53),(6,27,80)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,14),(3,14,41),(4,18,53)); lvl=5; h,r-ind=1,1
  [3,3]((2,10,29),(1,5,14),(3,14,41)); lvl=4; h,r-ind=1,1
  [4,3]((6,27,80),(7,31,92),(2,9,27),(3,13,39)); lvl=4; h,r-ind=1,1
    [3,3]((3,13,39),(7,31,92),(9,40,119)); lvl=5; h,r-ind=1,1
    [3,3]((6,27,80),(7,31,92),(9,40,119)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,27),(6,27,80),(9,40,119)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,27),(3,13,39),(9,40,119)); lvl=5; h,r-ind=1,1
  [4,3]((2,10,29),(3,14,41),(6,27,80),(2,9,27)); lvl=4; h,r-ind=1,1
    [3,3]((5,23,68),(3,14,41),(6,27,80)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,27),(5,23,68),(6,27,80)); lvl=5; h,r-ind=1,1
    [3,3]((2,10,29),(2,9,27),(5,23,68)); lvl=5; h,r-ind=1,1
    [3,3]((2,10,29),(5,23,68),(3,14,41)); lvl=5; h,r-ind=1,1
[5,3]((1,5,15),(2,9,27),(2,9,28),(3,13,40),(7,30,91)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,28),(10,44,135),(3,13,40)); lvl=4; h,r-ind=1,1
  [4,3]((6,26,79),(5,22,67),(10,44,135),(3,13,40)); lvl=4; h,r-ind=1,2; alert-r-inc
    [3,3]((5,22,67),(8,35,107),(10,44,135)); lvl=5; h,r-ind=1,1
    [3,3]((3,13,40),(8,35,107),(10,44,135)); lvl=5; h,r-ind=1,1
    [3,3]((6,26,79),(5,22,67),(8,35,107)); lvl=5; h,r-ind=1,1
    [3,3]((3,13,40),(6,26,79),(8,35,107)); lvl=5; h,r-ind=1,1
  [3,3]((7,30,91),(6,26,79),(3,13,40)); lvl=4; h,r-ind=1,1
  [3,3]((2,9,27),(7,30,91),(6,26,79)); lvl=4; h,r-ind=1,1
  [4,3]((8,36,109),(2,9,27),(6,26,79),(5,22,67)); lvl=4; h,r-ind=1,2; alert-r-inc
    [3,3]((7,31,94),(2,9,27),(6,26,79)); lvl=5; h,r-ind=1,1
    [3,3]((7,31,94),(5,22,67),(6,26,79)); lvl=5; h,r-ind=1,1
    [3,3]((8,36,109),(7,31,94),(5,22,67)); lvl=5; h,r-ind=1,1
    [3,3]((8,36,109),(7,31,94),(2,9,27)); lvl=5; h,r-ind=1,1
  [5,3]((1,5,15),(8,36,109),(5,22,67),(2,9,28),(10,44,135)); lvl=4; h,r-ind=1,1
    [3,3]((5,22,67),(7,31,95),(10,44,135)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,28),(7,31,95),(10,44,135)); lvl=5; h,r-ind=1,1
    [4,3]((5,22,67),(9,40,122),(11,49,150),(7,31,95)); lvl=5; h,r-ind=1,1
      [3,3]((9,40,122),(11,49,150),(16,71,217)); lvl=6; h,r-ind=1,1
      [3,3]((7,31,95),(11,49,150),(16,71,217)); lvl=6; h,r-ind=1,1
      [3,3]((5,22,67),(7,31,95),(16,71,217)); lvl=6; h,r-ind=1,1
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          [3,3]((5,22,67),(9,40,122),(16,71,217)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,28),(11,49,150),(7,31,95)); lvl=5; h,r-ind=1,1
        [4,3]((5,22,67),(6,27,82),(10,45,137),(9,40,122)); lvl=5; h,r-ind=1,1
          [3,3]((6,27,82),(10,45,137),(15,67,204)); lvl=6; h,r-ind=1,1
          [3,3]((9,40,122),(10,45,137),(15,67,204)); lvl=6; h,r-ind=1,1
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          [3,3]((9,40,122),(5,22,67),(15,67,204)); lvl=6; h,r-ind=1,1
        [3,3]((8,36,109),(5,22,67),(6,27,82)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,15),(8,36,109),(6,27,82)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,15),(6,27,82),(10,45,137)); lvl=5; h,r-ind=1,1
        [4,3]((4,18,55),(10,45,137),(9,40,122),(11,49,150)); lvl=5; h,r-ind=1,1
          [3,3]((9,40,122),(13,58,177),(10,45,137)); lvl=6; h,r-ind=1,1
          [3,3]((4,18,55),(13,58,177),(10,45,137)); lvl=6; h,r-ind=1,1
          [3,3]((4,18,55),(11,49,150),(13,58,177)); lvl=6; h,r-ind=1,1
          [3,3]((11,49,150),(9,40,122),(13,58,177)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,28),(4,18,55),(11,49,150)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,15),(2,9,28),(4,18,55)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,15),(4,18,55),(10,45,137)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,15),(8,36,109),(2,9,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,15),(2,10,31),(2,9,28)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,15),(2,10,29),(2,9,27)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,28),(3,13,40),(6,26,81)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,13),(1,4,12),(6,25,78)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,18),(1,4,13),(2,10,31),(6,25,78)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc
    [5,3]((7,30,96),(6,26,81),(3,13,41),(1,4,13),(6,25,78)); lvl=3; h,r-ind=1,1
      [5,3]((4,17,53),(9,38,120),(12,51,161),(11,47,148),(7,30,94)); lvl=4; h,r-ind=1,1
        [3,3]((12,51,161),(9,38,120),(8,34,107)); lvl=5; h,r-ind=1,1
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      [4,3]((3,13,41),(6,26,81),(11,47,148),(7,30,94)); lvl=4; h,r-ind=1,1
        [3,3]((10,43,135),(6,26,81),(7,30,94)); lvl=5; h,r-ind=1,1
        [3,3]((11,47,148),(10,43,135),(7,30,94)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,41),(11,47,148),(10,43,135)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,41),(10,43,135),(6,26,81)); lvl=5; h,r-ind=1,1
      [3,3]((6,26,81),(4,17,53),(7,30,94)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,13),(6,25,78),(4,17,53),(9,38,120)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((5,21,66),(4,17,53),(6,25,78)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,13),(5,21,66),(6,25,78)); lvl=5; h,r-ind=1,1
        [3,3]((9,38,120),(5,21,66),(4,17,53)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,13),(9,38,120),(5,21,66)); lvl=5; h,r-ind=1,1
      [4,3]((4,17,54),(1,4,13),(9,38,120),(12,51,161)); lvl=4; h,r-ind=1,1
        [3,3]((13,55,174),(9,38,120),(1,4,13)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,54),(13,55,174),(1,4,13)); lvl=5; h,r-ind=1,1
        [3,3]((12,51,161),(13,55,174),(9,38,120)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,54),(12,51,161),(13,55,174)); lvl=5; h,r-ind=1,1
      [3,3]((7,30,96),(4,17,54),(1,4,13)); lvl=4; h,r-ind=1,1
      [4,3]((4,17,54),(3,13,41),(12,51,161),(11,47,148)); lvl=4; h,r-ind=1,1
        [3,3]((15,64,202),(11,47,148),(3,13,41)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,54),(15,64,202),(3,13,41)); lvl=5; h,r-ind=1,1
        [3,3]((12,51,161),(15,64,202),(11,47,148)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,54),(12,51,161),(15,64,202)); lvl=5; h,r-ind=1,1
      [3,3]((7,30,96),(4,17,54),(3,13,41)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,28),(6,26,81),(3,13,41)); lvl=3; h,r-ind=1,1
    [5,3]((1,5,16),(2,9,29),(7,30,96),(2,9,28),(3,13,41)); lvl=3; h,r-ind=1,1
      [4,3]((5,22,70),(6,26,83),(3,13,41),(10,44,139)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((8,35,111),(6,26,83),(3,13,41)); lvl=5; h,r-ind=1,1
        [3,3]((10,44,139),(8,35,111),(3,13,41)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,70),(10,44,139),(8,35,111)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,70),(8,35,111),(6,26,83)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,28),(3,13,41),(10,44,139)); lvl=4; h,r-ind=1,1
      [5,3]((1,5,16),(8,36,115),(2,9,28),(5,22,70),(10,44,139)); lvl=4; h,r-ind=1,1
        [4,3]((5,22,70),(11,49,155),(9,40,127),(7,31,98)); lvl=5; h,r-ind=1,1
          [3,3]((9,40,127),(11,49,155),(16,71,225)); lvl=6; h,r-ind=1,1
          [3,3]((7,31,98),(11,49,155),(16,71,225)); lvl=6; h,r-ind=1,1
          [3,3]((5,22,70),(7,31,98),(16,71,225)); lvl=6; h,r-ind=1,1
          [3,3]((5,22,70),(9,40,127),(16,71,225)); lvl=6; h,r-ind=1,1
        [3,3]((5,22,70),(10,44,139),(7,31,98)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,28),(10,44,139),(7,31,98)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,28),(11,49,155),(7,31,98)); lvl=5; h,r-ind=1,1
        [4,3]((4,18,57),(10,45,143),(11,49,155),(9,40,127)); lvl=5; h,r-ind=1,1
          [3,3]((13,58,184),(9,40,127),(10,45,143)); lvl=6; h,r-ind=1,1
          [3,3]((4,18,57),(13,58,184),(10,45,143)); lvl=6; h,r-ind=1,1
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          [3,3]((11,49,155),(13,58,184),(9,40,127)); lvl=6; h,r-ind=1,1
        [4,3]((6,27,86),(5,22,70),(10,45,143),(9,40,127)); lvl=5; h,r-ind=1,1
          [3,3]((15,67,213),(9,40,127),(5,22,70)); lvl=6; h,r-ind=1,1
          [3,3]((6,27,86),(15,67,213),(5,22,70)); lvl=6; h,r-ind=1,1
          [3,3]((10,45,143),(15,67,213),(9,40,127)); lvl=6; h,r-ind=1,1
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          [3,3]((6,27,86),(10,45,143),(15,67,213)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,16),(6,27,86),(10,45,143)); lvl=5; h,r-ind=1,1
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        [3,3]((1,5,16),(8,36,115),(6,27,86)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,28),(4,18,57),(11,49,155)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,16),(2,9,28),(4,18,57)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,16),(4,18,57),(10,45,143)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,29),(8,36,115),(5,22,70),(6,26,83)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,31,99),(5,22,70),(8,36,115)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,29),(7,31,99),(8,36,115)); lvl=5; h,r-ind=1,1
        [3,3]((6,26,83),(7,31,99),(5,22,70)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,29),(6,26,83),(7,31,99)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,16),(2,9,29),(8,36,115)); lvl=4; h,r-ind=1,1
      [3,3]((7,30,96),(6,26,83),(3,13,41)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,29),(7,30,96),(6,26,83)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,16),(2,10,31),(2,9,28)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,16),(2,10,33),(2,9,29)); lvl=3; h,r-ind=1,1
    [5,3]((1,5,18),(2,10,33),(2,9,29),(7,30,96),(1,4,13)); lvl=3; h,r-ind=1,1
      [5,3]((1,5,17),(5,22,72),(7,31,101),(6,27,88),(3,14,46)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,59),(7,31,101),(6,27,88)); lvl=5; h,r-ind=1,1
        [3,3]((4,18,59),(3,14,46),(6,27,88)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,17),(4,18,59),(3,14,46)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,72),(1,5,17),(4,18,59)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,72),(4,18,59),(7,31,101)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,29),(2,10,33),(6,27,88),(3,14,46)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,33),(5,23,75),(3,14,46)); lvl=5; h,r-ind=1,1
        [3,3]((6,27,88),(5,23,75),(3,14,46)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,29),(6,27,88),(5,23,75)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,29),(2,10,33),(5,23,75)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,33),(1,5,17),(3,14,46)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,18),(1,4,13),(1,5,17),(5,22,72)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,9,30),(1,4,13),(5,22,72)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,30),(1,5,17),(5,22,72)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,18),(2,9,30),(1,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,18),(2,9,30),(1,4,13)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,13),(3,13,42),(5,22,72),(7,31,101)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,42),(7,31,101),(8,35,114)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,72),(7,31,101),(8,35,114)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,13),(3,13,42),(8,35,114)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,72),(1,4,13),(8,35,114)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,29),(3,13,42),(7,31,101),(6,27,88)); lvl=4; h,r-ind=1,1
        [3,3]((9,40,130),(7,31,101),(3,13,42)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,29),(9,40,130),(3,13,42)); lvl=5; h,r-ind=1,1
        [3,3]((9,40,130),(6,27,88),(7,31,101)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,29),(9,40,130),(6,27,88)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,29),(7,30,96),(3,13,42)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,13),(7,30,96),(3,13,42)); lvl=4; h,r-ind=1,1
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[5,3]((1,0,0),(1,3,6),(1,3,9),(2,5,16),(2,3,10)); lvl=1; h,r-ind=1,1
  [6,3]((2,6,15),(2,4,11),(2,3,8),(3,5,14),(1,3,6),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,7),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(3,5,14),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,11),(1,2,5),(3,5,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,13),(2,4,11),(1,2,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,7),(2,6,15),(2,5,13),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,15),(2,5,13),(3,8,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,13),(3,8,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(2,6,15),(3,8,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(1,3,7),(3,8,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,5),(1,2,4),(2,3,6),(2,3,7)); lvl=3; h,r-ind=1,1
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      [3,3]((1,2,5),(1,2,4),(3,5,11)); lvl=4; h,r-ind=1,1
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  [4,3]((1,0,0),(1,1,3),(2,3,8),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,10),(2,3,8),(2,3,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(5,6,15),(3,4,10),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(3,4,10),(5,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,12),(5,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,12),(2,3,7),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,12),(2,3,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,6),(1,1,2),(2,3,7)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,15),(3,4,10),(1,1,3),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(2,3,8),(4,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,8),(4,5,13)); lvl=4; h,r-ind=1,1
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      [3,3]((5,6,15),(3,4,10),(4,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(5,6,15),(4,5,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,2),(5,6,15),(1,1,3)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((1,1,2),(2,2,5),(5,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(2,2,5),(5,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,3),(2,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,2),(2,2,5)); lvl=4; h,r-ind=1,1
  [4,3]((1,1,3),(2,3,8),(3,5,14),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(3,5,14),(4,6,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(3,5,14),(4,6,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,8),(4,6,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(1,1,3),(4,6,17)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,9),(2,6,15),(2,4,11),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,19),(2,5,13),(2,4,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,6),(3,7,19),(5,12,33),(2,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,33),(4,9,25),(3,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,11),(4,9,25),(3,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,4,11),(4,9,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(5,12,33),(4,9,25)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,8),(1,3,9),(1,2,6),(5,12,33)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((1,2,6),(2,5,14),(1,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(2,5,14),(1,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,33),(1,2,6),(2,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(5,12,33),(2,5,14)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,8),(3,7,19),(5,12,33),(2,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,27),(5,12,33),(3,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(4,10,27),(3,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(2,5,13),(4,10,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(4,10,27),(5,12,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,8),(2,6,15),(2,5,13)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,9),(2,5,16),(1,2,6)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,9),(2,5,16),(1,2,6),(2,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(3,6,19),(2,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,13),(3,6,19),(2,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(1,2,6),(3,6,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,13),(2,3,9),(3,6,19)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,10),(1,1,3),(2,3,9),(2,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,16),(2,3,9),(1,1,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(3,5,16),(1,1,3)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,16),(2,4,13),(2,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(3,5,16),(2,4,13)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,10),(1,1,3)); lvl=2; h,r-ind=1,1
  [4,3]((2,4,11),(3,5,14),(2,3,9),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,20),(2,3,9),(3,5,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,11),(4,7,20),(3,5,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(4,7,20),(2,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,11),(1,2,6),(4,7,20)); lvl=3; h,r-ind=1,1
[5,3]((1,5,13),(1,3,6),(1,4,12),(1,3,9),(1,5,9)); lvl=1; h,r-ind=1,2
  [4,3]((2,8,19),(1,3,6),(1,4,8),(2,6,15)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((1,4,9),(1,4,8),(1,3,7),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,6),(2,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,3,6),(2,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(1,4,8),(2,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(1,3,7),(2,7,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,9),(2,7,17),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,17),(2,6,15),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,19),(1,4,9),(2,7,17)); lvl=3; h,r-ind=1,1
  [4,3]((2,8,19),(1,4,11),(1,3,9),(2,6,15)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((1,4,10),(1,4,11),(1,3,8),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(1,3,9),(2,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(1,3,9),(2,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,10),(1,3,8),(2,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(1,4,10),(2,7,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,17),(1,4,10),(1,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,15),(2,7,17),(1,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,17),(2,8,19),(1,4,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,11),(1,4,12),(1,3,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,13),(1,4,11),(1,4,12)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,13),(1,5,11),(2,8,19),(1,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,11),(2,8,19),(1,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,12),(1,5,11),(1,4,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,12),(1,5,13),(1,4,11),(1,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,13),(1,4,11),(2,9,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,10),(1,4,11),(2,9,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(1,5,13),(2,9,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,10),(1,5,12),(2,9,23)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,9),(1,5,11),(2,8,19),(1,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,9),(1,5,11),(2,8,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,10),(1,4,9),(1,5,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,9),(1,5,10),(1,4,8),(1,4,9)); lvl=3; h,r-ind=1,1
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      [3,3]((1,4,8),(1,4,9),(2,9,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(1,4,9),(2,9,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(1,5,10),(2,9,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(1,4,8),(2,9,18)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,9),(1,3,6),(1,4,8)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,5,13),(1,5,9)); lvl=1; h,r-ind=4,4; optimized-h
[4,3]((1,0,0),(0,1,0),(1,3,6),(1,5,9)); lvl=1; h,r-ind=3,3
  [4,3]((2,9,15),(0,1,0),(2,9,9),(1,5,9)); lvl=2; h,r-ind=3,3
    [3,3]((2,10,13),(0,1,0),(1,5,5)); lvl=3; h,r-ind=3,3; optimized-h
    [4,3]((2,9,9),(2,9,12),(2,10,13),(1,5,5)); lvl=3; h,r-ind=3,1
      [3,3]((2,9,12),(2,10,13),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,21),(2,9,12),(1,5,6)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((2,9,9),(4,18,21),(1,5,5),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,19,21),(1,5,6),(1,5,5)); lvl=5; h,r-ind=1,1
        [4,3]((2,9,9),(2,9,10),(4,19,21),(1,5,5)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,15),(4,19,21),(2,9,10)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,9),(3,14,15),(2,9,10)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,5),(2,9,9),(3,14,15)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,5),(3,14,15),(4,19,21)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,10),(4,19,21),(1,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((4,18,21),(2,9,10),(1,5,6)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,9),(0,1,0),(1,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,13),(0,1,0),(1,5,8)); lvl=3; h,r-ind=3,3; optimized-h
    [4,3]((2,9,15),(2,9,12),(2,10,13),(1,5,8)); lvl=3; h,r-ind=3,1
      [3,3]((1,5,7),(2,10,13),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,27),(1,5,7),(2,9,12)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((2,9,15),(4,18,27),(1,5,7),(1,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,14),(4,18,27),(1,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,14),(4,19,29),(1,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(4,19,29),(1,5,7)); lvl=5; h,r-ind=1,1
        [4,3]((2,9,15),(2,9,14),(1,5,8),(4,19,29)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,22),(2,9,14),(4,19,29)); lvl=6; h,r-ind=1,1
          [3,3]((3,14,22),(1,5,8),(4,19,29)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,15),(3,14,22),(1,5,8)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,15),(3,14,22),(2,9,14)); lvl=6; h,r-ind=1,1
    [3,3]((1,5,9),(2,9,15),(1,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,9),(0,1,0),(1,5,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,7),(2,9,15),(1,5,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,6),(1,4,7),(1,5,9)); lvl=2; h,r-ind=1,1
  [5,3]((2,5,8),(1,4,7),(2,9,15),(1,4,4),(2,9,9)); lvl=2; h,r-ind=3,1
    [4,3]((2,8,11),(1,4,5),(2,9,9),(2,9,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,5),(4,18,21),(2,9,9),(5,21,27)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,9,10),(3,13,16),(7,30,36)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,4,5),(5,21,27),(3,13,16),(7,30,36)); lvl=5; h,r-ind=1,3
          [3,3]((4,17,21),(3,13,16),(5,21,27)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(4,17,21),(5,21,27)); lvl=6; h,r-ind=1,1
          [3,3]((7,30,36),(4,17,21),(3,13,16)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(7,30,36),(4,17,21)); lvl=6; h,r-ind=1,1
        [4,3]((1,4,5),(2,9,9),(2,9,10),(7,30,36)); lvl=5; h,r-ind=1,3
          [3,3]((3,13,15),(2,9,10),(2,9,9)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(3,13,15),(2,9,9)); lvl=6; h,r-ind=1,1
          [3,3]((7,30,36),(3,13,15),(2,9,10)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(7,30,36),(3,13,15)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,10),(4,18,21),(3,13,16)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,11),(1,4,5),(5,21,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,12),(2,8,11),(5,21,27)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,9,12),(4,18,21),(5,21,27)); lvl=4; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,4,6),(2,8,11),(2,9,15),(2,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,18,27),(5,21,30),(2,9,12)); lvl=4; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,8,11),(5,21,30),(2,9,12)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,4,6),(2,8,11),(5,21,30)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,6),(2,9,15),(4,18,27),(5,21,30)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,4,6),(7,30,45),(2,9,14),(2,9,15)); lvl=5; h,r-ind=1,3
          [3,3]((3,13,20),(7,30,45),(2,9,14)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,15),(3,13,20),(2,9,14)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,6),(2,9,15),(3,13,20)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,6),(3,13,20),(7,30,45)); lvl=6; h,r-ind=1,1
        [3,3]((7,30,45),(3,13,19),(2,9,14)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,13,19),(4,18,27),(2,9,14)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,6),(7,30,45),(3,13,19),(5,21,30)); lvl=5; h,r-ind=1,3
          [3,3]((4,17,25),(3,13,19),(7,30,45)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,6),(4,17,25),(7,30,45)); lvl=6; h,r-ind=1,1
          [3,3]((5,21,30),(4,17,25),(3,13,19)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,6),(5,21,30),(4,17,25)); lvl=6; h,r-ind=1,1
    [4,3]((4,15,21),(3,11,16),(1,4,6),(2,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,19,27),(3,11,16),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,11),(5,19,27),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((4,15,21),(2,8,11),(5,19,27)); lvl=4; h,r-ind=1,1
      [3,3]((4,15,21),(5,19,27),(3,11,16)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,5),(1,4,7),(3,11,16),(1,4,6)); lvl=3; h,r-ind=1,1
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        [3,3]((1,4,7),(2,7,11),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,16),(2,7,11),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(3,11,16),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(1,4,7),(2,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(1,4,6),(2,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,4),(2,9,9)); lvl=3; h,r-ind=1,1
      [4,3]((3,11,15),(1,4,5),(1,3,4),(1,4,4)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,9),(1,4,5),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,9),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,15),(2,7,9),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,11,15),(2,7,9)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,15),(4,15,21),(2,8,11),(1,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((4,15,21),(2,8,11),(5,19,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,8,11),(5,19,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,15),(1,4,5),(5,19,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,15),(4,15,21),(5,19,26)); lvl=4; h,r-ind=1,1
      [5,3]((1,3,5),(3,11,15),(4,15,21),(3,11,16),(1,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,10),(3,11,16),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,10),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,15),(1,3,4),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(4,15,21),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,15),(2,7,10),(4,15,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,8),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,4,4)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,0,0),(2,3,6),(2,5,8),(1,4,4)); lvl=2; h,r-ind=6,1; alert-h-inc
      [4,3]((1,2,3),(2,5,8),(1,3,4),(2,4,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,8),(3,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,7),(2,5,8),(3,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,7),(3,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(3,7,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,2),(1,2,3),(2,3,6),(2,4,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,7),(3,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,6),(2,4,7),(3,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(1,2,3),(3,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,6),(1,1,2),(3,5,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,4),(1,2,2),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,3),(3,8,10),(1,2,2),(1,2,3)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,6),(1,2,2),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,10),(2,5,6),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(3,8,10),(2,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(2,5,6),(1,2,2)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,10),(1,2,3)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,4),(1,3,3),(1,3,4),(3,8,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,3,3),(3,8,10),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(1,3,3),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(1,4,4),(2,6,7)); lvl=5; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,2),(1,2,2),(1,2,3)); lvl=3; h,r-ind=1,1
        [4,3]((1,1,1),(3,4,6),(1,2,2),(1,2,3)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,2,2),(2,3,4),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,6),(2,3,4),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(3,4,6),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(1,2,2),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(3,4,6),(1,2,3)); lvl=4; h,r-ind=1,1
        [4,3]((1,0,0),(1,1,1),(1,1,2),(3,4,6)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,2,3),(1,1,1),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(1,1,2),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,6),(2,3,6),(2,5,8),(1,4,7)); lvl=2; h,r-ind=3,1
      [3,3]((1,2,4),(2,3,6),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,8),(2,4,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,6),(1,2,4),(1,3,5),(1,4,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,4),(1,3,5),(2,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(1,3,5),(2,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,2,4),(2,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(1,3,6),(2,6,11)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,10),(1,2,7)); lvl=1; h,r-ind=1,1
```

18.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,6,18)); lvl=0; h,r-ind=18,54
  [4,3]((1,0,0),(1,3,9),(1,6,12),(1,6,9)); lvl=1; h,r-ind=9,6
    [4,3]((1,3,6),(2,12,21),(1,6,12),(2,9,21)); lvl=2; h,r-ind=9,3
      [4,3]((2,9,18),(1,5,11),(1,6,11),(1,6,12)); lvl=3; h,r-ind=1,3
```

```
      [3,3]((1,5,10),(1,6,11),(1,6,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(1,5,10),(1,6,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,18),(1,5,11),(1,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,18),(1,5,10),(1,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,9),(2,9,18),(1,5,11)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,3,6),(1,4,9),(2,9,18)); lvl=3; h,r-ind=3,3; optimized-h
    [3,3]((1,4,9),(1,5,11),(2,9,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,9),(2,9,18),(1,6,11)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,5,9),(2,12,21),(1,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,5,9),(2,9,18)); lvl=3; h,r-ind=3,3; optimized-h
  [3,3]((1,3,6),(1,3,9),(2,9,21)); lvl=2; h,r-ind=9,3; optimized-h
  [3,3]((1,3,6),(2,3,9),(1,3,9)); lvl=2; h,r-ind=9,3; optimized-h
  [3,3]((1,0,0),(1,3,6),(2,3,9)); lvl=2; h,r-ind=9,3; optimized-h
  [3,3]((1,3,6),(1,6,9),(2,12,21)); lvl=2; h,r-ind=9,3; optimized-h
  [3,3]((2,6,9),(1,3,6),(1,6,9)); lvl=2; h,r-ind=9,3; optimized-h
  [3,3]((1,0,0),(2,6,9),(1,3,6)); lvl=2; h,r-ind=9,3; optimized-h
[3,3]((0,1,0),(1,6,12),(1,6,9)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((0,1,0),(1,0,0),(1,6,9)); lvl=1; h,r-ind=9,27; optimized-h
[3,3]((1,6,18),(1,3,9),(1,6,12)); lvl=1; h,r-ind=18,6
  [4,3]((1,6,18),(1,6,15),(2,9,27),(2,9,24)); lvl=2; h,r-ind=9,3
    [4,3]((1,5,14),(1,5,13),(4,18,51),(2,9,24)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,13),(2,9,25),(2,9,24),(4,19,52)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,38),(2,9,24),(2,9,25)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,52),(3,14,38),(2,9,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,13),(4,19,52),(3,14,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,13),(3,14,38),(2,9,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,14),(1,5,13),(4,19,52)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,14),(2,9,25),(4,19,52)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,14),(2,9,25),(4,18,51)); lvl=4; h,r-ind=1,1
    [4,3]((2,12,33),(1,5,14),(1,6,15),(1,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,43),(1,5,14),(1,5,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,15),(3,16,43),(1,6,16),(1,5,13)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,6,16),(3,16,43),(2,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,13),(3,16,43),(2,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,15),(1,6,16),(2,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,13),(1,6,15),(2,11,29)); lvl=5; h,r-ind=1,1
      [3,3]((3,16,43),(1,6,16),(1,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,33),(1,6,16),(1,5,14)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,14),(2,9,27),(1,5,15),(4,18,51)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,26),(4,19,55),(1,5,15),(2,9,27)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,19,55),(3,14,41),(1,5,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,27),(3,14,41),(1,5,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,26),(4,19,55),(3,14,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,27),(2,9,26),(3,14,41)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,14),(2,9,26),(4,19,55)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,14),(2,9,26),(4,18,51)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,14),(4,19,55),(1,5,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,18),(2,12,33),(1,5,14),(1,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,14),(1,6,17),(2,12,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,14),(1,6,17),(3,16,46)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,15),(1,5,14),(3,16,46)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,15),(1,6,18),(1,6,17),(3,16,46)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,32),(1,6,18),(1,6,17)); lvl=5; h,r-ind=1,1
        [3,3]((3,16,46),(2,11,32),(1,6,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,15),(3,16,46),(2,11,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,15),(2,11,32),(1,6,18)); lvl=5; h,r-ind=1,1
  [3,3]((1,3,9),(2,9,27),(2,9,24)); lvl=2; h,r-ind=9,3; optimized-h
  [4,3]((1,6,12),(2,9,21),(1,6,15),(2,9,24)); lvl=2; h,r-ind=9,3
    [4,3]((1,5,12),(1,5,13),(2,9,24),(4,18,45)); lvl=3; h,r-ind=1,1
      [4,3]((4,19,48),(1,5,13),(2,9,23),(2,9,24)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,23),(2,9,24),(3,14,36)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,13),(2,9,24),(3,14,36)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,48),(2,9,23),(3,14,36)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,13),(4,19,48),(3,14,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,12),(4,19,48),(2,9,23)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,45),(1,5,12),(2,9,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(4,19,48),(1,5,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,11),(1,5,12),(2,9,21),(4,18,45)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,12),(2,9,22),(4,18,45)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,45),(1,5,12),(2,9,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(4,19,45),(1,5,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,11),(4,19,45),(2,9,22),(2,9,21)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,33),(4,19,45),(2,9,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,21),(3,14,33),(2,9,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,11),(2,9,21),(3,14,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,11),(3,14,33),(4,19,45)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,15),(1,5,12),(2,12,27),(1,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,14),(1,5,12),(2,12,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,14),(3,16,39),(1,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,39),(1,5,13),(1,5,12)); lvl=4; h,r-ind=1,1
```

```
        [4,3]((1,6,15),(1,6,14),(3,16,39),(1,5,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,14),(3,16,39),(2,11,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,13),(3,16,39),(2,11,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,15),(1,6,14),(2,11,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,13),(1,6,15),(2,11,27)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,11),(1,6,12),(1,5,12),(2,12,27)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,12),(1,6,13),(3,16,36)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,11),(1,6,12),(1,6,13),(3,16,36)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,24),(1,6,12),(1,6,13)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,36),(2,11,24),(1,6,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(3,16,36),(2,11,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(2,11,24),(1,6,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,12),(1,5,11),(3,16,36)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,12),(2,12,27),(1,6,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,9),(2,9,21),(2,9,24)); lvl=2; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,6,18),(1,6,12)); lvl=1; h,r-ind=6,6; optimized-h
```

18.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,7,18)); lvl=0; h,r-ind=18,324
  [5,3]((2,7,15),(1,4,9),(2,11,24),(2,11,22),(1,4,8)); lvl=1; h,r-ind=1,1
    [4,3]((2,8,17),(1,5,11),(4,19,40),(1,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,19),(1,5,11),(4,19,40)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,19),(4,18,39),(1,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,18,39),(1,4,9),(1,5,11)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,19),(2,8,17),(4,18,39),(1,4,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,28),(1,4,9),(2,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,19),(3,13,28),(2,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,28),(4,18,39),(1,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,19),(3,13,28),(4,18,39)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,15),(2,8,17),(1,4,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,8),(2,8,17),(4,19,40),(1,5,10)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,10),(2,9,19),(4,19,40)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,10),(4,18,37),(2,9,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,10),(1,4,8),(4,18,37)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,8),(4,18,37),(2,9,19),(2,8,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,27),(4,18,37),(2,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,17),(3,13,27),(2,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(2,8,17),(3,13,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(3,13,27),(4,18,37)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,15),(1,4,8),(2,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,11),(4,19,40),(1,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,11),(2,11,23),(1,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,11),(2,11,24),(2,11,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,23),(1,5,10),(2,11,22)); lvl=2; h,r-ind=1,1
  [5,3]((1,4,6),(1,7,9),(1,7,11),(2,11,22),(1,4,8)); lvl=1; h,r-ind=3,1
    [5,3]((1,6,11),(1,7,11),(1,7,10),(4,22,37),(2,11,19)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,10),(1,7,10),(1,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,11),(1,6,10),(1,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,10),(1,7,10),(5,29,47)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,6,10),(4,22,37),(5,29,47)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,6,10),(2,11,19),(4,22,37)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,11),(1,6,10),(2,11,19)); lvl=3; h,r-ind=1,1
    [5,3]((1,4,7),(1,5,10),(1,4,8),(4,22,37),(2,11,19)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,9),(4,22,37),(2,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,10),(1,5,9),(2,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,10),(1,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,9),(5,26,44),(4,22,37)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,4,7),(1,5,9),(5,26,44)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,4,7),(1,4,8),(1,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,10),(1,6,11),(2,11,19)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,5,10),(2,11,22),(1,6,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,9),(1,7,10),(2,11,15),(4,22,37)); lvl=2; h,r-ind=3,1
      [4,3]((1,6,9),(4,22,37),(2,11,18),(5,29,47)); lvl=3; h,r-ind=1,1
        [4,3]((3,17,28),(2,11,18),(4,22,37),(6,34,55)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,28,46),(2,11,18),(4,22,37)); lvl=5; h,r-ind=1,1
          [3,3]((3,17,28),(5,28,46),(4,22,37)); lvl=5; h,r-ind=1,1
          [3,3]((6,34,55),(5,28,46),(2,11,18)); lvl=5; h,r-ind=1,1
          [3,3]((3,17,28),(6,34,55),(5,28,46)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,9),(3,17,28),(6,34,55)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,9),(3,17,28),(5,29,47)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,9),(2,11,18),(6,34,55)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(1,7,10),(5,29,47)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((1,7,9),(1,6,9),(1,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,9),(2,11,17),(2,11,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,9),(1,6,8),(2,11,15),(2,11,17)); lvl=3; h,r-ind=1,1
        [4,3]((1,6,8),(4,23,33),(2,11,15),(2,11,16)); lvl=4; h,r-ind=1,2; alert-r-inc
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        [3,3]((2,11,15),(3,17,24),(2,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((4,23,33),(3,17,24),(2,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(4,23,33),(3,17,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(2,11,15),(3,17,24)); lvl=5; h,r-ind=1,1
      [4,3]((2,11,17),(1,6,9),(4,23,33),(2,11,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,6,9),(3,17,25),(4,23,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,16),(3,17,25),(4,23,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,17),(2,11,16),(3,17,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,17),(1,6,9),(3,17,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(1,6,8),(4,23,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(1,6,9),(1,6,8)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,7),(1,4,6),(2,11,15),(4,22,37)); lvl=2; h,r-ind=3,1
    [4,3]((2,11,17),(1,5,8),(1,5,7),(2,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(1,5,7),(4,21,31)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,16),(2,11,15),(1,5,7),(4,21,31)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,7),(2,11,15),(3,16,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,16),(2,11,15),(3,16,23)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,31),(1,5,7),(3,16,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,16),(4,21,31),(3,16,23)); lvl=5; h,r-ind=1,1
      [4,3]((2,11,17),(2,11,16),(1,5,8),(4,21,31)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,16),(4,21,31),(3,16,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(4,21,31),(3,16,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,17),(2,11,16),(3,16,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(2,11,17),(3,16,24)); lvl=5; h,r-ind=1,1
    [3,3]((2,11,18),(2,11,17),(1,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,18),(4,22,37),(5,26,44),(1,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(5,26,44),(3,16,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(6,32,53),(3,16,27)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,18),(4,22,37),(6,32,53),(3,16,27)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,27,45),(6,32,53),(3,16,27)); lvl=5; h,r-ind=1,1
        [3,3]((4,22,37),(5,27,45),(3,16,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,18),(4,22,37),(5,27,45)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,18),(5,27,45),(6,32,53)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(2,11,18),(6,32,53)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(5,26,44),(1,5,8)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((1,5,8),(1,4,6),(1,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(1,5,8),(1,4,6)); lvl=3; h,r-ind=1,1
[5,3]((1,0,0),(2,3,7),(2,7,15),(1,4,6),(1,4,8)); lvl=1; h,r-ind=2,1
  [4,3]((2,3,7),(1,2,4),(2,5,11),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,9),(4,7,15),(1,2,4),(2,5,11)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,7,15),(3,6,13),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(3,6,13),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,9),(4,7,15),(3,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(2,4,9),(3,6,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(4,7,15),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,9),(2,3,7),(1,1,2),(4,7,15)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,11),(1,1,2),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,9),(3,5,11),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,15),(3,5,11),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,9),(4,7,15),(3,5,11)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,7),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,9),(2,4,7),(1,2,4),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,4,7),(3,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(2,4,7),(3,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,9),(3,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,1,2),(3,6,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(1,2,3),(2,4,7),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(1,2,3),(2,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(1,1,2),(2,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,5),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,5),(1,2,3)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,6),(1,2,4),(2,7,15),(2,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(4,11,23),(2,5,11),(2,6,13)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,17),(4,11,23),(2,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(3,8,17),(2,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,11),(3,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(3,8,17),(4,11,23)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,15),(1,3,6),(4,11,23),(2,6,13)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,3,6),(3,9,19),(4,11,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(3,9,19),(4,11,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,15),(1,3,6),(3,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(2,7,15),(3,9,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(1,2,4),(4,11,23)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,9),(2,6,11),(1,3,6),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(2,6,11),(3,8,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(2,6,11),(3,8,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,9),(3,8,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,6),(3,8,15)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,3),(1,4,6),(2,5,9),(2,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,7),(4,9,15),(1,3,5),(2,5,9)); lvl=3; h,r-ind=1,2; alert-r-inc
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      [3,3]((3,7,12),(4,9,15),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,9),(3,7,12),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(2,5,9),(3,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(3,7,12),(4,9,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,7),(4,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(4,9,15),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,4,6),(1,3,5)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,6),(1,4,8),(2,7,15)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,7),(2,6,11),(1,3,6),(1,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,13),(2,6,11),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(2,7,13),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(1,4,8),(2,7,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(2,7,13),(2,6,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,6),(2,5,9),(1,4,7),(2,6,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,9),(1,3,5),(4,13,23),(2,6,11)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,9,16),(4,13,23),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,9),(3,9,16),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,11),(2,5,9),(3,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,11),(3,9,16),(4,13,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(4,13,23),(2,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(1,3,5),(4,13,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(1,4,6),(1,3,5)); lvl=3; h,r-ind=1,1
[4,3]((1,0,0),(0,1,0),(1,4,6),(1,7,9)); lvl=1; h,r-ind=3,3
  [4,3]((0,1,0),(2,9,9),(1,7,9),(2,11,15)); lvl=2; h,r-ind=3,3
    [3,3]((1,5,6),(2,11,15),(1,6,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,7),(1,5,6),(2,11,12),(1,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,11,12),(2,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,12),(2,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,8),(2,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(1,5,6),(2,11,13)); lvl=4; h,r-ind=1,1
    [5,3]((0,1,0),(1,6,7),(2,13,13),(1,7,9),(1,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,7),(1,6,7),(2,13,13)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(2,13,13)); lvl=4; h,r-ind=1,1
      [4,3]((2,14,15),(2,13,15),(1,7,7),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(2,13,15),(3,20,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,15),(2,13,15),(3,20,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,7),(2,14,15),(3,20,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,7),(1,6,7),(3,20,22)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,15),(1,6,8),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,14,15),(1,7,7)); lvl=4; h,r-ind=1,1
      [4,3]((2,14,15),(2,13,15),(1,6,8),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,20,23),(1,6,8),(2,13,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,15),(3,20,23),(2,13,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(2,14,15),(3,20,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(3,20,23),(1,6,8)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(1,7,9),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,9),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,14,15),(1,7,8)); lvl=4; h,r-ind=1,1
    [5,3]((1,6,7),(1,6,6),(2,13,13),(4,22,23),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,12),(4,22,23),(3,17,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(4,22,23),(3,17,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(2,13,13),(3,18,19)); lvl=4; h,r-ind=1,1
      [4,3]((5,29,31),(4,23,25),(2,11,12),(3,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,23,25),(7,40,43),(2,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((3,17,18),(7,40,43),(2,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((5,29,31),(4,23,25),(7,40,43)); lvl=5; h,r-ind=1,1
        [3,3]((3,17,18),(5,29,31),(7,40,43)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,6),(3,18,19),(5,29,31),(3,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,18,19),(5,29,31),(6,35,37)); lvl=5; h,r-ind=1,1
        [3,3]((3,17,18),(5,29,31),(6,35,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(3,17,18),(6,35,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(3,18,19),(6,35,37)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(4,23,25),(2,11,12)); lvl=4; h,r-ind=1,1
      [4,3]((3,18,19),(5,29,31),(1,6,7),(4,23,25)); lvl=4; h,r-ind=1,1
        [3,3]((4,23,25),(5,29,31),(11,64,69)); lvl=5; h,r-ind=1,1
        [4,3]((3,18,19),(2,12,13),(5,29,31),(11,64,69)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((7,41,44),(11,64,69),(2,12,13)); lvl=6; h,r-ind=1,1
          [3,3]((3,18,19),(7,41,44),(2,12,13)); lvl=6; h,r-ind=1,1
          [3,3]((5,29,31),(3,18,19),(7,41,44)); lvl=6; h,r-ind=1,1
          [3,3]((5,29,31),(7,41,44),(11,64,69)); lvl=6; h,r-ind=1,1
        [4,3]((1,6,7),(2,12,13),(4,23,25),(11,64,69)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,12,13),(11,64,69),(6,35,38)); lvl=6; h,r-ind=1,1
          [3,3]((4,23,25),(11,64,69),(6,35,38)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,7),(4,23,25),(6,35,38)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,7),(2,12,13),(6,35,38)); lvl=6; h,r-ind=1,1
      [3,3]((2,13,13),(3,18,19),(1,6,7)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,6,6),(2,13,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,6),(4,22,23),(2,11,12),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,12),(4,22,23),(3,16,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(4,22,23),(3,16,17)); lvl=4; h,r-ind=1,1
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      [3,3]((1,5,6),(2,11,12),(3,16,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(1,5,6),(3,16,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,9),(1,5,6),(1,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,6,6),(4,22,23),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(2,11,11),(4,22,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(2,11,11),(4,22,23)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(2,11,11)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(2,11,11)); lvl=4; h,r-ind=1,1
  [5,3]((1,4,6),(1,2,3),(1,2,2),(2,9,9),(2,11,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(1,2,2),(2,7,7),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(3,10,12),(1,2,2),(1,3,3)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,12),(2,6,7),(1,3,3)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(2,6,7),(1,3,3)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(1,2,2),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(3,10,12),(2,6,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,5),(3,10,12),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,7),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,4),(3,10,12)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,6),(1,4,5),(1,5,7),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(1,4,5),(2,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,5),(2,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,5,7),(2,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,6),(2,8,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,7),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(1,5,6),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,4),(2,9,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(1,5,7),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(2,11,15),(1,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,2,2)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,2,2),(0,1,0),(2,9,9)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(1,2,2),(0,1,0)); lvl=2; h,r-ind=2,2; optimized-h
[3,3]((0,1,0),(1,7,9),(1,7,11)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((1,7,18),(0,1,0),(1,7,11)); lvl=1; h,r-ind=7,7; optimized-h
[5,3]((1,2,5),(1,4,10),(2,3,7),(2,7,15),(1,4,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,7),(2,7,15),(1,4,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,10),(1,3,7),(1,4,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,7),(2,5,11),(2,7,15)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,3,7),(1,3,7),(2,5,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,2,5),(2,3,7),(1,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,10),(1,2,5),(1,3,7)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,2,5),(2,3,7)); lvl=1; h,r-ind=1,1
[3,3]((1,7,18),(1,2,5),(1,4,10)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(1,7,18),(1,2,5)); lvl=1; h,r-ind=1,1
[4,3]((1,7,18),(1,4,10),(1,4,9),(2,11,24)); lvl=1; h,r-ind=3,3
  [3,3]((1,5,12),(1,4,10),(1,4,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,11),(3,16,38),(1,5,12),(1,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,23),(1,5,12),(3,16,38)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,11),(2,10,23),(3,16,38)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,23),(1,4,9),(1,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,11),(2,10,23),(1,4,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,11),(2,11,24),(1,6,14)); lvl=2; h,r-ind=1,1
  [5,3]((1,5,11),(1,6,14),(3,16,38),(3,17,41),(4,22,53)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,26),(4,22,53),(3,17,41)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,14),(2,11,26),(3,17,41)); lvl=3; h,r-ind=1,1
    [3,3]((3,16,38),(2,11,26),(4,22,53)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,11),(3,16,38),(2,11,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,14),(1,5,11),(2,11,26)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,12),(2,11,27),(1,4,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,15),(2,11,27),(1,4,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,7,18),(1,6,15),(1,4,10)); lvl=2; h,r-ind=1,1
  [4,3]((3,17,41),(4,22,53),(1,6,15),(2,11,27)); lvl=2; h,r-ind=1,1
    [3,3]((4,22,53),(2,11,27),(5,28,68)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,15),(2,11,27),(5,28,68)); lvl=3; h,r-ind=1,1
    [3,3]((3,17,41),(4,22,53),(5,28,68)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,15),(3,17,41),(5,28,68)); lvl=3; h,r-ind=1,1
  [4,3]((1,7,18),(1,6,14),(3,17,41),(1,6,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,14),(2,12,29),(3,17,41)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,15),(2,12,29),(3,17,41)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,15),(1,7,18),(2,12,29)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,18),(1,6,14),(2,12,29)); lvl=3; h,r-ind=1,1
  [4,3]((3,16,38),(4,22,53),(1,5,12),(2,11,27)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,27),(4,22,53),(5,27,65)); lvl=3; h,r-ind=1,1
    [3,3]((3,16,38),(4,22,53),(5,27,65)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,12),(3,16,38),(5,27,65)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,12),(2,11,27),(5,27,65)); lvl=3; h,r-ind=1,1
[4,3]((1,7,18),(1,7,11),(2,11,24),(2,11,22)); lvl=1; h,r-ind=3,1
  [4,3]((2,12,25),(2,11,23),(1,6,11),(2,11,22)); lvl=2; h,r-ind=1,1
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```
      [3,3]((2,11,23),(5,28,57),(2,11,22)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,12),(1,6,11),(5,28,57),(2,11,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,6,11),(3,17,34),(2,11,22)); lvl=4; h,r-ind=1,1
        [3,3]((5,28,57),(3,17,34),(2,11,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(1,6,11),(3,17,34)); lvl=4; h,r-ind=1,1
        [3,3]((5,28,57),(1,6,12),(3,17,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(2,11,23),(5,28,57)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,12),(2,12,25),(2,11,23)); lvl=3; h,r-ind=1,1
    [4,3]((2,14,29),(1,7,11),(2,12,25),(1,6,11)); lvl=2; h,r-ind=1,1
      [4,3]((1,7,11),(1,7,13),(1,6,11),(1,6,12)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,11),(3,19,35),(1,6,12)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,12),(1,7,13),(3,19,35),(1,6,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,7,13),(2,13,24),(1,6,12)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,35),(2,13,24),(1,6,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,12),(3,19,35),(2,13,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,12),(1,7,13),(2,13,24)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,11),(1,7,12),(1,6,11),(3,19,35)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,19,35),(1,7,12),(2,13,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,11),(1,7,12),(2,13,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(1,7,11),(2,13,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(3,19,35),(2,13,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,14),(1,7,13),(1,6,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,27),(1,7,14),(1,6,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,27),(2,12,25),(1,6,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,27),(2,14,29),(1,7,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,14),(1,7,18),(2,14,29),(2,12,25)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,13),(1,7,16),(1,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,13),(2,13,27),(1,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,27),(2,14,29),(1,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,13),(2,13,27),(2,12,25)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,13),(1,6,14),(1,7,18),(1,7,16)); lvl=3; h,r-ind=1,1
        [4,3]((1,6,14),(3,19,44),(1,7,17),(1,7,18)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,19,44),(2,13,31),(1,7,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,18),(2,13,31),(1,7,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,14),(3,19,44),(2,13,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,18),(1,6,14),(2,13,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,13),(1,6,14),(3,19,44)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,16),(1,6,13),(3,19,44),(1,7,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,13),(3,19,44),(2,13,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,17),(3,19,44),(2,13,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,16),(1,7,17),(2,13,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,16),(1,6,13),(2,13,30)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,14),(2,12,25),(2,11,24),(2,11,23)); lvl=2; h,r-ind=1,1
      [3,3]((5,28,60),(2,11,23),(2,11,24)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,14),(5,28,60),(1,6,13),(2,11,24)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,37),(5,28,60),(1,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,14),(3,17,37),(1,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,24),(3,17,37),(5,28,60)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,14),(2,11,24),(3,17,37)); lvl=4; h,r-ind=1,1
      [3,3]((5,28,60),(1,6,13),(2,11,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,13),(2,12,25),(2,11,23)); lvl=3; h,r-ind=1,1
```

18.12 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,8,18)); lvl=0; h,r-ind=18,162
  [5,3]((1,2,4),(1,2,3),(1,5,10),(1,8,9),(1,8,10)); lvl=1; h,r-ind=3,1
    [4,3]((1,7,9),(1,6,9),(2,13,20),(1,8,10)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,9),(1,7,10),(3,20,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(1,6,9),(3,20,28)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,9),(1,8,10),(1,7,10),(3,20,28)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,8,10),(2,14,19),(1,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((3,20,28),(2,14,19),(1,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,9),(1,8,10),(2,14,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,20,28),(1,7,9),(2,14,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(1,7,10),(2,13,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,9),(1,7,9),(1,8,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(1,5,7),(1,8,9),(1,7,9)); lvl=2; h,r-ind=1,1
      [4,3]((1,8,9),(2,13,15),(1,7,9),(1,6,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,8),(2,13,15),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,20,25),(1,6,8),(1,7,8)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,9),(1,7,9),(3,20,25),(1,7,8)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,14,17),(1,7,9),(3,20,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,17),(1,7,8),(3,20,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(2,14,17),(1,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(2,14,17),(1,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(3,20,25),(1,6,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,6),(2,13,15),(1,5,7),(1,6,8)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((1,6,7),(1,6,8),(2,13,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(3,17,22),(1,6,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(3,17,22),(1,6,8)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,6),(1,6,7),(1,5,7),(3,17,22)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,6,7),(3,17,22),(2,11,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(3,17,22),(2,11,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,7),(2,11,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,6),(1,6,7),(2,11,14)); lvl=5; h,r-ind=1,1
[4,3]((1,5,8),(1,5,7),(1,7,9),(1,6,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,9),(3,17,25),(1,7,9),(1,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((3,17,25),(2,12,17),(1,6,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(2,12,17),(1,6,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(3,17,25),(2,12,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(1,6,9),(2,12,17)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,8),(3,17,25),(1,5,7),(1,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((2,11,16),(1,6,8),(3,17,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(2,11,16),(3,17,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(2,11,16),(1,6,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(1,5,7),(2,11,16)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,8),(1,6,9),(3,17,25)); lvl=3; h,r-ind=1,1
[4,3]((1,5,8),(1,5,7),(1,3,5),(1,4,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,7),(3,13,21),(1,4,6),(1,3,5)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((2,8,13),(3,13,21),(1,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(2,8,13),(1,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(1,3,5),(2,8,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(2,8,13),(3,13,21)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,8),(1,4,7),(3,13,21)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,8),(3,13,21),(1,5,7),(1,4,6)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((2,9,14),(3,13,21),(1,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,14),(1,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(1,5,7),(2,9,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(2,9,14),(3,13,21)); lvl=4; h,r-ind=1,1
[4,3]((2,7,14),(1,2,4),(1,3,5),(1,4,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,6),(1,2,4),(1,3,5),(3,10,18)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((2,6,11),(1,2,4),(1,3,5)); lvl=4; h,r-ind=1,1
    [3,3]((3,10,18),(2,6,11),(1,3,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(3,10,18),(2,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(2,6,11),(1,2,4)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,7),(1,3,5),(3,10,18)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,7),(1,3,6),(3,10,18)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,14),(1,4,7),(1,3,6)); lvl=3; h,r-ind=1,1
[4,3]((1,2,3),(1,5,6),(1,5,7),(1,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,6),(2,7,9),(1,5,7),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,6),(3,13,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(1,4,6),(3,13,18)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,7),(1,5,6),(1,4,5),(3,13,18)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,12),(1,5,6),(1,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,18),(2,9,12),(1,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(3,13,18),(2,9,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(2,9,12),(1,5,6)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,9),(1,4,6)); lvl=4; h,r-ind=1,1
  [4,3]((1,2,3),(1,3,5),(2,7,9),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,15),(1,4,6),(1,3,5)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(3,10,15),(1,3,4),(1,3,5)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,6,9),(3,10,15),(1,3,4)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(2,6,9),(1,3,4)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,9),(1,3,5),(3,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(2,6,9),(1,3,5)); lvl=5; h,r-ind=1,1
    [3,3]((3,10,15),(1,3,4),(1,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,9),(1,3,4),(1,4,6)); lvl=4; h,r-ind=1,1
[3,3]((1,2,4),(1,2,3),(1,3,5)); lvl=2; h,r-ind=1,1
[4,3]((1,5,8),(1,5,10),(1,6,9),(2,13,20)); lvl=2; h,r-ind=1,1
  [4,3]((4,23,37),(1,6,9),(2,13,20),(1,6,10)); lvl=3; h,r-ind=1,3; alert-r-inc
    [3,3]((2,12,19),(1,6,9),(2,13,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,19),(1,6,10),(2,13,20)); lvl=4; h,r-ind=1,1
    [3,3]((4,23,37),(2,12,19),(1,6,10)); lvl=4; h,r-ind=1,1
    [3,3]((4,23,37),(2,12,19),(1,6,9)); lvl=4; h,r-ind=1,1
  [4,3]((4,23,37),(2,11,18),(1,5,9),(1,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,17,28),(1,5,9),(2,11,18)); lvl=4; h,r-ind=1,1
    [3,3]((4,23,37),(3,17,28),(2,11,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(3,17,28),(1,5,9)); lvl=4; h,r-ind=1,1
    [3,3]((4,23,37),(1,6,10),(3,17,28)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,9),(1,5,10),(1,6,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,8),(2,11,18),(1,5,9)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,8),(4,23,37),(2,11,18),(1,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,17,27),(2,11,18),(4,23,37)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(3,17,27),(4,23,37)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(3,17,27),(2,11,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(1,5,8),(3,17,27)); lvl=4; h,r-ind=1,1
[4,3]((2,7,14),(1,5,8),(1,4,7),(1,5,10)); lvl=2; h,r-ind=1,1
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    [3,3]((1,5,8),(1,5,9),(2,9,16)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,8),(4,17,31),(1,5,9),(2,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,24),(2,9,16),(4,17,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(3,13,24),(4,17,31)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,24),(1,5,9),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(3,13,24),(1,5,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(1,5,10),(1,5,9)); lvl=3; h,r-ind=1,1
    [4,3]((4,17,31),(1,4,7),(1,5,8),(2,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(3,13,23),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(3,13,23),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(4,17,31),(3,13,23)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,31),(1,4,7),(3,13,23)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,14),(1,4,8),(4,17,31),(1,4,7)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,8,15),(1,4,8),(4,17,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,8,15),(4,17,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,14),(2,8,15),(1,4,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,7,14),(2,8,15)); lvl=4; h,r-ind=1,1
[3,3]((0,1,0),(1,8,9),(1,8,10)); lvl=1; h,r-ind=1,1
[3,3]((1,8,18),(0,1,0),(1,8,10)); lvl=1; h,r-ind=8,8; optimized-h
[3,3]((1,8,18),(1,5,10),(1,8,10)); lvl=1; h,r-ind=24,24; alert-h-inc
  [3,3]((2,13,27),(4,26,49),(1,5,10)); lvl=2; h,r-ind=15,15; optimized-h
  [3,3]((1,7,15),(2,13,27),(1,5,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,8,18),(1,7,15),(1,5,10)); lvl=2; h,r-ind=1,1
  [3,3]((2,13,20),(4,26,49),(1,5,10)); lvl=2; h,r-ind=27,9; alert-h-inc
    [4,3]((4,26,45),(1,6,11),(1,6,10),(2,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,11),(1,6,10),(5,31,53)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,20),(4,26,43),(1,6,10),(5,31,53)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((7,44,73),(1,6,10),(5,31,53),(3,19,32)); lvl=5; h,r-ind=1,3
          [3,3]((1,6,10),(5,31,53),(4,25,42)); lvl=6; h,r-ind=1,1
          [3,3]((3,19,32),(5,31,53),(4,25,42)); lvl=6; h,r-ind=1,1
          [3,3]((7,44,73),(1,6,10),(4,25,42)); lvl=6; h,r-ind=1,1
          [3,3]((3,19,32),(7,44,73),(4,25,42)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,21),(7,44,73),(3,19,32)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,13,21),(4,26,43),(3,19,32)); lvl=5; h,r-ind=1,1
        [4,3]((2,13,21),(2,13,20),(7,44,73),(1,6,10)); lvl=5; h,r-ind=1,3
          [3,3]((1,6,10),(3,19,31),(2,13,20)); lvl=6; h,r-ind=1,1
          [3,3]((2,13,21),(3,19,31),(2,13,20)); lvl=6; h,r-ind=1,1
          [3,3]((7,44,73),(2,13,21),(3,19,31)); lvl=6; h,r-ind=1,1
          [3,3]((7,44,73),(1,6,10),(3,19,31)); lvl=6; h,r-ind=1,1
      [4,3]((2,13,22),(4,26,43),(1,6,11),(5,31,53)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(3,19,32),(5,31,53)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(6,38,65),(3,19,32)); lvl=5; h,r-ind=1,1
        [4,3]((2,13,22),(6,38,65),(4,26,43),(3,19,32)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,32,54),(3,19,32),(6,38,65)); lvl=6; h,r-ind=1,1
          [3,3]((2,13,22),(5,32,54),(6,38,65)); lvl=6; h,r-ind=1,1
          [3,3]((4,26,43),(5,32,54),(3,19,32)); lvl=6; h,r-ind=1,1
          [3,3]((2,13,22),(4,26,43),(5,32,54)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,22),(1,6,11),(6,38,65)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,22),(4,26,45),(1,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,24),(4,26,45),(1,6,11)); lvl=3; h,r-ind=3,3; optimized-h
    [4,3]((4,26,49),(5,31,59),(2,13,24),(1,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,11),(3,19,36),(5,31,59)); lvl=4; h,r-ind=1,1
      [3,3]((6,38,71),(1,6,11),(3,19,36)); lvl=4; h,r-ind=1,1
      [4,3]((4,26,49),(6,38,71),(2,13,24),(3,19,36)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,32,60),(2,13,24),(6,38,71)); lvl=5; h,r-ind=1,1
        [3,3]((5,32,60),(3,19,36),(6,38,71)); lvl=5; h,r-ind=1,1
        [3,3]((4,26,49),(5,32,60),(3,19,36)); lvl=5; h,r-ind=1,1
        [3,3]((4,26,49),(5,32,60),(2,13,24)); lvl=5; h,r-ind=1,1
      [3,3]((6,38,71),(2,13,24),(1,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,10),(5,31,59),(1,6,11)); lvl=3; h,r-ind=3,3; optimized-h
    [3,3]((1,5,10),(1,6,11),(1,6,10)); lvl=3; h,r-ind=1,1
  [4,3]((1,7,15),(2,13,27),(4,26,49),(1,7,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,7,13),(4,26,49),(2,13,25)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,13),(1,7,14),(4,26,51),(2,13,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,20,39),(1,7,14),(4,26,51)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,39),(2,13,25),(4,26,51)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,13),(3,20,39),(2,13,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,13),(3,20,39),(1,7,14)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,14),(1,7,15),(2,13,27),(4,26,51)); lvl=3; h,r-ind=1,1
      [4,3]((2,13,26),(4,27,55),(1,7,15),(2,13,27)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,27,55),(3,20,41),(1,7,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,27),(3,20,41),(1,7,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,26),(2,13,27),(3,20,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,26),(4,27,55),(3,20,41)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,14),(2,13,26),(4,27,55)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,14),(2,13,26),(4,26,51)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,14),(4,27,55),(1,7,15)); lvl=4; h,r-ind=1,1
  [4,3]((1,8,18),(1,8,14),(1,7,15),(1,7,13)); lvl=2; h,r-ind=2,1
    [4,3]((1,8,16),(1,8,14),(1,7,14),(1,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,14),(3,22,42),(1,7,13)); lvl=4; h,r-ind=1,1
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      [4,3]((1,8,15),(1,8,14),(3,22,42),(1,7,13)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,15,28),(1,8,14),(1,7,13)); lvl=5; h,r-ind=1,1
        [3,3]((3,22,42),(2,15,28),(1,7,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,15),(3,22,42),(2,15,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,15),(2,15,28),(1,8,14)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,16),(1,8,15),(1,7,14),(3,22,42)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,8,15),(3,22,42),(2,15,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,14),(3,22,42),(2,15,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,16),(1,8,15),(2,15,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,14),(1,8,16),(2,15,29)); lvl=5; h,r-ind=1,1
    [4,3]((1,8,18),(1,8,16),(1,7,14),(1,7,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,16),(1,8,17),(1,7,14),(3,22,46)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,8,17),(3,22,46),(2,15,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,14),(3,22,46),(2,15,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,16),(1,8,17),(2,15,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,14),(1,8,16),(2,15,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,15),(1,7,14),(3,22,46)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,18),(1,7,15),(1,8,17),(3,22,46)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,22,46),(1,7,15),(2,15,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,18),(1,7,15),(2,15,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,17),(1,8,18),(2,15,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,17),(3,22,46),(2,15,32)); lvl=5; h,r-ind=1,1
  [5,3]((1,8,10),(2,13,20),(1,8,14),(4,26,49),(1,7,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,13,24),(2,14,25),(1,7,13),(4,26,49)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,14,25),(3,20,37),(1,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((4,26,49),(3,20,37),(1,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,24),(2,14,25),(3,20,37)); lvl=4; h,r-ind=1,1
      [3,3]((4,26,49),(2,13,24),(3,20,37)); lvl=4; h,r-ind=1,1
    [3,3]((2,14,25),(1,8,14),(1,7,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,12),(2,14,23),(2,14,25),(1,8,14)); lvl=3; h,r-ind=4,2; alert-h-inc; alert-r-inc
      [3,3]((1,8,14),(2,14,25),(1,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,14),(1,8,13),(1,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,12),(1,8,13),(1,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,12),(2,14,23),(1,7,12)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,10),(1,8,10),(1,8,12),(2,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,11),(1,8,11),(1,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(2,14,23),(1,8,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,10),(1,7,11),(1,8,10),(1,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,10),(1,8,11),(2,15,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,11),(1,8,11),(2,15,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(1,8,10),(2,15,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,11),(1,7,10),(2,15,21)); lvl=5; h,r-ind=1,1
    [4,3]((2,13,24),(4,26,45),(2,14,23),(2,14,25)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc
      [3,3]((3,20,34),(1,7,12),(2,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,23),(3,20,34),(1,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,24),(2,13,23),(1,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,25),(2,13,24),(1,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,23),(4,26,45),(3,20,34)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,10),(2,13,20),(4,26,45),(2,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,20,34),(2,13,22),(4,26,45)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(3,20,34),(2,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(4,26,43),(2,13,22)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,10),(1,7,11),(2,13,20),(4,26,43)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,11),(2,13,21),(4,26,43)); lvl=5; h,r-ind=1,1
        [3,3]((4,27,42),(1,7,11),(2,13,21)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,10),(4,27,42),(2,13,20),(2,13,21)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,20,31),(2,13,20),(2,13,21)); lvl=6; h,r-ind=1,1
          [3,3]((4,27,42),(3,20,31),(2,13,21)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,10),(4,27,42),(3,20,31)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,10),(3,20,31),(2,13,20)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,10),(4,27,42),(1,7,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,11),(2,14,23),(3,20,34)); lvl=4; h,r-ind=1,1
[4,3]((1,8,18),(1,2,4),(1,5,10),(1,4,9)); lvl=1; h,r-ind=1,2
  [4,3]((2,11,24),(1,5,11),(2,7,14),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((5,22,47),(1,3,6),(1,2,4),(1,5,11)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,8,17),(1,3,6),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(2,8,17),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((5,22,47),(2,8,17),(1,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(5,22,47),(2,8,17)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,24),(3,14,30),(5,22,47),(1,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,41),(3,14,30),(5,22,47)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(4,19,41),(5,22,47)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,24),(4,19,41),(3,14,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(2,11,24),(4,19,41)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,19),(2,11,24),(3,14,30)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,19),(3,14,30),(5,22,47),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,30),(5,22,47),(4,17,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(5,22,47),(4,17,36)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,19),(3,14,30),(4,17,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,9,19),(4,17,36)); lvl=4; h,r-ind=1,1
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```
      [3,3]((2,9,19),(1,3,6),(2,7,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,11),(1,4,9),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,8,18),(1,5,11),(1,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,8,18),(2,11,24),(1,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,11,24),(1,6,13),(1,5,10),(2,7,14)); lvl=2; h,r-ind=1,1
      [4,3]((5,25,53),(1,6,13),(1,4,8),(1,5,10)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((1,6,13),(1,5,10),(2,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(1,5,10),(2,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((5,25,53),(1,6,13),(2,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(5,25,53),(2,10,21)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,19),(5,25,53),(3,15,32),(1,4,8)); lvl=3; h,r-ind=1,1
        [3,3]((4,19,40),(5,25,53),(3,15,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,19),(4,19,40),(3,15,32)); lvl=4; h,r-ind=1,1
        [3,3]((4,19,40),(1,4,8),(5,25,53)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,19),(4,19,40),(1,4,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,14),(2,9,19),(1,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,24),(2,9,19),(3,15,32)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,24),(5,25,53),(3,15,32),(1,6,13)); lvl=3; h,r-ind=1,1
        [3,3]((4,21,45),(3,15,32),(5,25,53)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,13),(4,21,45),(5,25,53)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,24),(1,6,13),(4,21,45)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,24),(4,21,45),(3,15,32)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,18),(2,11,24),(1,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,8,18),(1,6,13),(1,5,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,4),(1,4,9)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(1,0,0),(1,2,3),(1,8,9)); lvl=1; h,r-ind=3,3
    [3,3]((1,1,1),(1,0,0),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(1,1,1),(2,9,9),(1,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,3),(2,7,9),(1,3,3),(1,1,1)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,9),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,2,2),(1,3,3)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,3),(1,3,4),(1,1,1),(1,2,2)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,4),(1,2,2),(2,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(1,2,2),(2,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(1,3,4),(2,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(1,2,3),(2,4,5)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,6),(2,7,9),(1,4,4),(1,3,3)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,9),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,12),(1,3,3),(1,4,5)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,6),(3,11,12),(1,4,4),(1,4,5)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,4,4),(3,11,12),(2,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(3,11,12),(2,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(1,4,5),(2,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(1,4,4),(2,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,12),(1,4,4),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,9,9),(1,4,4)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,8,9),(1,5,6),(2,9,9)); lvl=2; h,r-ind=3,3
      [4,3]((1,5,6),(2,13,15),(2,13,13),(1,5,5)); lvl=3; h,r-ind=3,1
        [3,3]((1,6,7),(2,13,14),(2,13,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(1,6,6),(2,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(2,13,13),(2,13,14)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,7),(1,5,6),(1,6,6),(1,5,5)); lvl=4; h,r-ind=1,1
          [3,3]((1,5,6),(1,5,5),(2,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,6),(1,5,5),(2,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(1,6,6),(2,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(1,5,6),(2,11,12)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(2,13,13),(1,5,5)); lvl=3; h,r-ind=3,3; optimized-h
      [3,3]((2,9,9),(1,5,6),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,8,9),(2,13,15),(2,13,13)); lvl=3; h,r-ind=1,1
        [4,3]((2,13,14),(1,7,7),(1,7,8),(2,13,15)); lvl=4; h,r-ind=1,1
          [3,3]((3,20,22),(1,7,8),(1,7,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,14),(3,20,22),(1,7,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,15),(3,20,22),(1,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,14),(2,13,15),(3,20,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,7),(2,15,15),(1,7,8)); lvl=4; h,r-ind=1,1
        [4,3]((0,1,0),(1,8,9),(2,15,15),(1,7,8)); lvl=4; h,r-ind=1,1
          [3,3]((1,8,8),(1,8,9),(1,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,15),(1,8,8),(1,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(2,15,15),(1,8,8)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(1,8,8),(1,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(1,7,7),(2,15,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,13),(2,13,14),(1,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,13,13),(1,7,7)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,9,9)); lvl=2; h,r-ind=7,7; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
```

18.13 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,9,18)); lvl=0; h,r-ind=18,36
  [3,3]((1,9,18),(1,9,9),(2,9,18)); lvl=1; h,r-ind=81,9; alert-h-inc
    [5,3]((1,5,9),(1,5,10),(2,13,21),(4,27,45),(2,13,23)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,11),(2,13,23),(2,13,22),(3,20,34)); lvl=3; h,r-ind=1,1
        [3,3]((2,13,23),(3,20,34),(4,26,45)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,22),(3,20,34),(4,26,45)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(2,13,22),(4,26,45)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(2,13,23),(4,26,45)); lvl=4; h,r-ind=1,1
      [4,3]((3,20,33),(4,27,45),(2,13,22),(3,20,34)); lvl=3; h,r-ind=1,1
        [3,3]((4,27,45),(3,20,34),(6,40,67)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,22),(3,20,34),(6,40,67)); lvl=4; h,r-ind=1,1
        [3,3]((3,20,33),(2,13,22),(6,40,67)); lvl=4; h,r-ind=1,1
        [3,3]((3,20,33),(4,27,45),(6,40,67)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,10),(2,13,21),(3,20,33),(2,13,22)); lvl=3; h,r-ind=1,1
        [3,3]((2,13,21),(3,20,33),(4,26,43)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,22),(3,20,33),(4,26,43)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(2,13,21),(4,26,43)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,22),(1,6,10),(4,26,43)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(1,6,11),(2,13,22)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,9),(1,6,10),(1,5,10),(1,6,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,10),(1,6,11),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(1,6,11),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(1,6,10),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(1,5,9),(2,11,20)); lvl=4; h,r-ind=1,1
    [5,3]((2,18,27),(1,9,18),(2,13,26),(4,27,45),(2,13,23)); lvl=2; h,r-ind=3,1
      [3,3]((1,7,12),(3,20,34),(2,13,23)); lvl=3; h,r-ind=1,1
      [4,3]((2,14,25),(1,7,12),(4,26,49),(2,13,23)); lvl=3; h,r-ind=1,1
        [4,3]((7,47,85),(1,7,12),(2,13,23),(2,13,24)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((3,20,36),(1,7,12),(2,13,23)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,24),(3,20,36),(2,13,23)); lvl=5; h,r-ind=1,1
          [3,3]((7,47,85),(2,13,24),(3,20,36)); lvl=5; h,r-ind=1,1
          [3,3]((7,47,85),(3,20,36),(1,7,12)); lvl=5; h,r-ind=1,1
        [4,3]((7,47,85),(4,27,49),(3,20,37),(2,13,24)); lvl=4; h,r-ind=1,1
          [3,3]((4,27,49),(3,20,37),(6,40,73)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,24),(3,20,37),(6,40,73)); lvl=5; h,r-ind=1,1
          [3,3]((7,47,85),(4,27,49),(6,40,73)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,24),(7,47,85),(6,40,73)); lvl=5; h,r-ind=1,1
        [3,3]((3,20,37),(4,26,49),(2,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,25),(4,27,49),(3,20,37)); lvl=4; h,r-ind=1,1
        [4,3]((2,14,25),(7,47,85),(4,27,49),(1,7,12)); lvl=4; h,r-ind=1,1
          [3,3]((5,34,61),(4,27,49),(7,47,85)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,12),(5,34,61),(7,47,85)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,25),(5,34,61),(4,27,49)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,12),(2,14,25),(5,34,61)); lvl=5; h,r-ind=1,1
      [4,3]((2,15,25),(2,14,25),(4,30,53),(1,7,12)); lvl=3; h,r-ind=1,1
        [3,3]((3,22,39),(4,29,51),(2,14,25)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,12),(7,51,89),(4,29,51),(2,14,25)); lvl=4; h,r-ind=1,1
          [3,3]((5,36,63),(7,51,89),(4,29,51)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,25),(5,36,63),(4,29,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,12),(2,14,25),(5,36,63)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,12),(5,36,63),(7,51,89)); lvl=5; h,r-ind=1,1
        [4,3]((2,15,26),(7,51,89),(3,22,39),(4,29,51)); lvl=4; h,r-ind=1,1
          [3,3]((7,51,89),(6,44,77),(4,29,51)); lvl=5; h,r-ind=1,1
          [3,3]((3,22,39),(6,44,77),(4,29,51)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,26),(3,22,39),(6,44,77)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,26),(7,51,89),(6,44,77)); lvl=5; h,r-ind=1,1
        [3,3]((4,30,53),(2,15,26),(3,22,39)); lvl=4; h,r-ind=1,1
        [4,3]((2,15,25),(1,7,12),(2,15,26),(7,51,89)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((3,22,38),(1,7,12),(7,51,89)); lvl=5; h,r-ind=1,1
          [3,3]((3,22,38),(2,15,26),(7,51,89)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,25),(3,22,38),(2,15,26)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,25),(3,22,38),(1,7,12)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,14),(2,18,31),(2,15,25),(4,30,53)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc
        [3,3]((1,8,14),(4,30,53),(2,15,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,27),(1,8,14),(2,15,26)); lvl=4; h,r-ind=1,1
        [4,3]((2,16,27),(1,8,13),(2,15,25),(2,15,26)); lvl=4; h,r-ind=1,1
          [3,3]((1,8,13),(3,23,39),(2,15,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,26),(3,23,39),(2,15,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,16,27),(1,8,13),(3,23,39)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,26),(2,16,27),(3,23,39)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,27),(1,9,15),(1,8,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,18,31),(1,9,15),(1,8,14)); lvl=4; h,r-ind=1,1
        [4,3]((1,9,14),(2,16,27),(1,8,13),(1,9,15)); lvl=4; h,r-ind=1,1
          [3,3]((2,17,28),(1,8,13),(2,16,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,15),(2,17,28),(2,16,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,14),(2,17,28),(1,8,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,15),(1,9,14),(2,17,28)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,18),(2,15,30),(2,18,31),(4,30,53)); lvl=3; h,r-ind=3,1
```

```
  [3,3]((2,15,27),(4,31,57),(2,15,28)); lvl=4; h,r-ind=2,2; alert-r-inc; optimized-h
  [5,3]((1,8,16),(2,15,30),(3,24,44),(4,31,57),(2,15,28)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,15),(3,24,44),(4,31,57),(7,54,100)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,24,44),(5,39,72),(4,31,57)); lvl=6; h,r-ind=1,1
      [3,3]((7,54,100),(5,39,72),(4,31,57)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,15),(7,54,100),(5,39,72)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,15),(3,24,44),(5,39,72)); lvl=6; h,r-ind=1,1
    [3,3]((2,15,28),(4,31,57),(7,54,100)); lvl=5; h,r-ind=1,1
    [3,3]((2,15,28),(1,8,15),(7,54,100)); lvl=5; h,r-ind=1,1
    [3,3]((2,15,29),(2,15,28),(1,8,15)); lvl=5; h,r-ind=1,1
    [4,3]((1,8,16),(2,15,29),(2,15,30),(1,8,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,30),(2,15,29),(3,23,45)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,15),(2,15,29),(3,23,45)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,16),(1,8,15),(3,23,45)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,16),(2,15,30),(3,23,45)); lvl=6; h,r-ind=1,1
  [5,3]((1,9,18),(2,18,33),(2,17,31),(1,8,16),(3,24,44)); lvl=4; h,r-ind=1,1
    [4,3]((3,24,44),(1,8,15),(6,51,94),(2,17,31)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((3,25,46),(1,8,15),(6,51,94)); lvl=6; h,r-ind=1,1
      [3,3]((3,25,46),(2,17,31),(6,51,94)); lvl=6; h,r-ind=1,1
      [3,3]((3,24,44),(3,25,46),(2,17,31)); lvl=6; h,r-ind=1,1
      [3,3]((3,24,44),(3,25,46),(1,8,15)); lvl=6; h,r-ind=1,1
    [4,3]((2,18,33),(3,26,48),(6,51,94),(2,17,31)); lvl=5; h,r-ind=1,1
      [3,3]((5,43,79),(3,26,48),(6,51,94)); lvl=6; h,r-ind=1,1
      [3,3]((2,17,31),(5,43,79),(6,51,94)); lvl=6; h,r-ind=1,1
      [3,3]((2,18,33),(5,43,79),(3,26,48)); lvl=6; h,r-ind=1,1
      [3,3]((2,17,31),(2,18,33),(5,43,79)); lvl=6; h,r-ind=1,1
    [3,3]((1,9,17),(2,18,33),(3,26,48)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,17),(3,26,48),(1,8,15),(6,51,94)); lvl=5; h,r-ind=1,1
      [3,3]((3,26,48),(6,51,94),(4,34,63)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,15),(6,51,94),(4,34,63)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,17),(3,26,48),(4,34,63)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,15),(1,9,17),(4,34,63)); lvl=6; h,r-ind=1,1
    [4,3]((1,9,17),(1,9,18),(1,8,16),(1,8,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,18),(1,8,16),(2,17,33)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,15),(1,8,16),(2,17,33)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,17),(1,9,18),(2,17,33)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,15),(1,9,17),(2,17,33)); lvl=6; h,r-ind=1,1
  [3,3]((1,9,16),(2,18,33),(2,17,31)); lvl=4; h,r-ind=1,1
  [4,3]((3,24,44),(1,8,14),(2,15,27),(4,31,57)); lvl=4; h,r-ind=2,1
    [4,3]((2,16,29),(3,23,42),(1,8,14),(2,15,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,27),(3,23,42),(4,31,56)); lvl=6; h,r-ind=1,1
      [3,3]((2,16,29),(3,23,42),(4,31,56)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,14),(2,16,29),(4,31,56)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,14),(2,15,27),(4,31,56)); lvl=6; h,r-ind=1,1
    [4,3]((3,24,44),(2,16,29),(3,23,42),(4,31,57)); lvl=5; h,r-ind=1,1
      [3,3]((2,16,29),(3,23,42),(6,47,86)); lvl=6; h,r-ind=1,1
      [3,3]((4,31,57),(3,23,42),(6,47,86)); lvl=6; h,r-ind=1,1
      [3,3]((3,24,44),(2,16,29),(6,47,86)); lvl=6; h,r-ind=1,1
      [3,3]((4,31,57),(3,24,44),(6,47,86)); lvl=6; h,r-ind=1,1
  [4,3]((1,9,16),(2,17,31),(3,24,44),(1,8,14)); lvl=4; h,r-ind=1,1
    [4,3]((2,17,31),(5,42,76),(3,24,44),(2,16,29)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,24,44),(4,33,60),(2,16,29)); lvl=6; h,r-ind=1,1
      [3,3]((5,42,76),(4,33,60),(2,16,29)); lvl=6; h,r-ind=1,1
      [3,3]((2,17,31),(3,24,44),(4,33,60)); lvl=6; h,r-ind=1,1
      [3,3]((5,42,76),(2,17,31),(4,33,60)); lvl=6; h,r-ind=1,1
    [4,3]((1,8,14),(1,9,16),(5,42,76),(2,16,29)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,25,45),(5,42,76),(1,9,16)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,14),(3,25,45),(1,9,16)); lvl=6; h,r-ind=1,1
      [3,3]((2,16,29),(1,8,14),(3,25,45)); lvl=6; h,r-ind=1,1
      [3,3]((2,16,29),(3,25,45),(5,42,76)); lvl=6; h,r-ind=1,1
    [3,3]((1,9,16),(2,17,31),(5,42,76)); lvl=5; h,r-ind=1,1
  [3,3]((2,18,31),(1,9,16),(1,8,14)); lvl=4; h,r-ind=1,1
  [3,3]((1,8,14),(4,30,53),(2,15,27)); lvl=4; h,r-ind=1,1
[4,3]((1,7,14),(2,15,30),(2,14,25),(4,30,53)); lvl=3; h,r-ind=1,1
  [3,3]((3,22,39),(2,15,27),(4,30,53)); lvl=4; h,r-ind=1,1
  [3,3]((3,22,39),(1,7,13),(2,15,27)); lvl=4; h,r-ind=1,1
  [3,3]((3,22,39),(2,14,25),(1,7,13)); lvl=4; h,r-ind=1,1
  [3,3]((1,7,13),(2,15,27),(2,15,28)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,14),(1,7,13),(2,15,30),(2,15,28)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,13),(4,29,56),(2,15,29),(2,15,28)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((4,29,56),(3,22,42),(2,15,29)); lvl=6; h,r-ind=1,1
      [3,3]((2,15,28),(3,22,42),(2,15,29)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,13),(4,29,56),(3,22,42)); lvl=6; h,r-ind=1,1
      [3,3]((2,15,28),(1,7,13),(3,22,42)); lvl=6; h,r-ind=1,1
    [3,3]((1,7,14),(1,7,13),(4,29,56)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,14),(4,29,56),(2,15,30),(2,15,29)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,15,30),(3,22,43),(2,15,29)); lvl=6; h,r-ind=1,1
      [3,3]((4,29,56),(3,22,43),(2,15,29)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,14),(4,29,56),(3,22,43)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,14),(2,15,30),(3,22,43)); lvl=6; h,r-ind=1,1
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    [3,3]((3,20,37),(2,13,25),(4,26,49)); lvl=4; h,r-ind=1,1
    [3,3]((3,20,37),(1,7,13),(2,13,25)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,14),(1,7,13),(2,13,26),(2,13,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,26),(2,13,25),(3,20,39)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,13),(2,13,25),(3,20,39)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,14),(1,7,13),(3,20,39)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,14),(2,13,26),(3,20,39)); lvl=5; h,r-ind=1,1
    [3,3]((2,14,25),(3,20,37),(1,7,13)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,12),(4,27,45),(2,14,23),(3,20,34)); lvl=3; h,r-ind=1,1
    [3,3]((2,14,23),(4,27,45),(5,34,57)); lvl=4; h,r-ind=1,1
    [3,3]((3,20,34),(4,27,45),(5,34,57)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,12),(2,14,23),(5,34,57)); lvl=4; h,r-ind=1,1
    [3,3]((3,20,34),(1,7,12),(5,34,57)); lvl=4; h,r-ind=1,1
  [4,3]((4,31,49),(2,15,25),(1,7,12),(2,14,23)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,12),(2,15,25),(4,30,49),(7,52,85)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,25),(5,37,61),(4,30,49)); lvl=5; h,r-ind=1,1
      [3,3]((7,52,85),(5,37,61),(4,30,49)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,12),(7,52,85),(5,37,61)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,12),(2,15,25),(5,37,61)); lvl=5; h,r-ind=1,1
    [4,3]((2,15,24),(3,23,37),(4,30,49),(7,52,85)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,37),(4,30,49),(6,45,73)); lvl=5; h,r-ind=1,1
      [3,3]((7,52,85),(4,30,49),(6,45,73)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,24),(7,52,85),(6,45,73)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,24),(3,23,37),(6,45,73)); lvl=5; h,r-ind=1,1
    [3,3]((2,15,24),(4,31,49),(3,23,37)); lvl=4; h,r-ind=1,1
    [4,3]((2,14,23),(2,15,24),(1,7,12),(7,52,85)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((7,52,85),(2,15,24),(3,22,36)); lvl=5; h,r-ind=1,1
      [3,3]((2,14,23),(2,15,24),(3,22,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,12),(2,14,23),(3,22,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,12),(7,52,85),(3,22,36)); lvl=5; h,r-ind=1,1
    [3,3]((3,23,37),(2,15,25),(4,30,49)); lvl=4; h,r-ind=1,1
  [4,3]((2,18,27),(4,31,49),(1,9,14),(2,15,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,13),(3,23,37),(2,15,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,16,25),(1,8,13),(3,23,37)); lvl=4; h,r-ind=1,1
    [3,3]((4,31,49),(2,16,25),(3,23,37)); lvl=4; h,r-ind=1,1
    [3,3]((2,16,25),(4,33,51),(1,8,13)); lvl=4; h,r-ind=1,1
    [4,3]((2,18,27),(1,9,14),(4,33,51),(1,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,14),(1,8,13),(4,34,53)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,26),(1,8,13),(4,34,53)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,26),(4,33,51),(1,8,13)); lvl=5; h,r-ind=1,1
      [4,3]((2,18,27),(2,17,26),(1,9,14),(4,34,53)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,26,40),(2,17,26),(4,34,53)); lvl=6; h,r-ind=1,1
        [3,3]((3,26,40),(1,9,14),(4,34,53)); lvl=6; h,r-ind=1,1
        [3,3]((2,18,27),(3,26,40),(1,9,14)); lvl=6; h,r-ind=1,1
        [3,3]((2,18,27),(3,26,40),(2,17,26)); lvl=6; h,r-ind=1,1
[3,3]((1,5,10),(2,13,26),(2,13,23)); lvl=2; h,r-ind=9,3; optimized-h
[3,3]((2,13,18),(1,5,9),(2,13,21)); lvl=2; h,r-ind=9,3; optimized-h
[3,3]((2,9,18),(1,5,9),(1,5,10)); lvl=2; h,r-ind=1,1
[5,3]((2,18,27),(1,9,9),(2,13,18),(2,13,21),(4,27,45)); lvl=2; h,r-ind=3,1
  [4,3]((2,14,21),(2,15,18),(1,7,9),(4,30,43)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,10),(2,15,20),(1,7,9),(2,15,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,9),(4,29,38),(2,15,19),(2,15,18)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,15,19),(4,29,38),(3,22,28)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,9),(4,29,38),(3,22,28)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,18),(2,15,19),(3,22,28)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,9),(2,15,18),(3,22,28)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,10),(1,7,9),(4,29,38)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,10),(4,29,38),(2,15,20),(2,15,19)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,15,19),(2,15,20),(3,22,29)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,10),(2,15,20),(3,22,29)); lvl=6; h,r-ind=1,1
        [3,3]((4,29,38),(2,15,19),(3,22,29)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,10),(4,29,38),(3,22,29)); lvl=6; h,r-ind=1,1
    [3,3]((1,7,10),(2,15,21),(2,15,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(2,15,21),(3,22,32)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,21),(4,30,43),(3,22,32)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(2,14,21),(3,22,32)); lvl=4; h,r-ind=1,1
  [4,3]((2,15,23),(1,7,11),(2,14,21),(4,30,43)); lvl=3; h,r-ind=1,1
    [4,3]((4,29,43),(7,51,76),(2,14,21),(1,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((5,36,54),(1,7,11),(2,14,21)); lvl=5; h,r-ind=1,1
      [3,3]((4,29,43),(5,36,54),(2,14,21)); lvl=5; h,r-ind=1,1
      [3,3]((4,29,43),(7,51,76),(5,36,54)); lvl=5; h,r-ind=1,1
      [3,3]((7,51,76),(5,36,54),(1,7,11)); lvl=5; h,r-ind=1,1
    [4,3]((2,15,23),(2,15,22),(7,51,76),(1,7,11)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((2,15,22),(3,22,33),(7,51,76)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,11),(3,22,33),(7,51,76)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,23),(1,7,11),(3,22,33)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,23),(2,15,22),(3,22,33)); lvl=5; h,r-ind=1,1
    [3,3]((4,29,43),(3,22,32),(2,14,21)); lvl=4; h,r-ind=1,1
    [4,3]((2,15,22),(4,29,43),(7,51,76),(3,22,32)); lvl=4; h,r-ind=1,1
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      [3,3]((6,44,65),(4,29,43),(7,51,76)); lvl=5; h,r-ind=1,1
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      [3,3]((6,44,65),(3,22,32),(4,29,43)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,22),(6,44,65),(3,22,32)); lvl=5; h,r-ind=1,1
    [3,3]((2,15,22),(3,22,32),(4,30,43)); lvl=4; h,r-ind=1,1
  [4,3]((4,31,49),(2,15,23),(2,14,23),(1,7,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,15,24),(7,52,82),(1,7,11),(2,14,23)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((1,7,11),(3,22,35),(7,52,82)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,24),(3,22,35),(7,52,82)); lvl=5; h,r-ind=1,1
      [3,3]((2,14,23),(2,15,24),(3,22,35)); lvl=5; h,r-ind=1,1
      [3,3]((2,14,23),(1,7,11),(3,22,35)); lvl=5; h,r-ind=1,1
    [4,3]((4,30,47),(7,52,82),(2,15,23),(1,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(5,37,58),(7,52,82)); lvl=5; h,r-ind=1,1
      [3,3]((4,30,47),(5,37,58),(7,52,82)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,23),(4,30,47),(5,37,58)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,23),(1,7,11),(5,37,58)); lvl=5; h,r-ind=1,1
    [3,3]((3,23,36),(4,30,47),(2,15,23)); lvl=4; h,r-ind=1,1
    [4,3]((3,23,36),(2,15,24),(4,30,47),(7,52,82)); lvl=4; h,r-ind=1,1
      [3,3]((6,45,71),(2,15,24),(7,52,82)); lvl=5; h,r-ind=1,1
      [3,3]((6,45,71),(4,30,47),(7,52,82)); lvl=5; h,r-ind=1,1
      [3,3]((3,23,36),(6,45,71),(4,30,47)); lvl=5; h,r-ind=1,1
      [3,3]((3,23,36),(6,45,71),(2,15,24)); lvl=5; h,r-ind=1,1
    [3,3]((3,23,36),(4,31,49),(2,15,24)); lvl=4; h,r-ind=1,1
  [4,3]((2,13,18),(2,14,21),(4,26,39),(1,7,9)); lvl=3; h,r-ind=3,1
    [3,3]((1,7,10),(2,14,21),(3,20,30)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,19),(1,7,10),(3,20,30)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,19),(4,26,39),(3,20,30)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,18),(2,13,19),(1,7,9),(1,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,28),(1,7,10),(1,7,9)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,18),(3,20,28),(1,7,9)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,19),(3,20,28),(1,7,10)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,18),(2,13,19),(3,20,28)); lvl=5; h,r-ind=1,1
  [4,3]((1,7,11),(2,14,21),(4,26,39),(2,13,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,20),(4,26,39),(3,20,30)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,20),(7,47,72),(4,27,41),(3,20,30)); lvl=4; h,r-ind=1,1
      [3,3]((6,40,61),(7,47,72),(4,27,41)); lvl=5; h,r-ind=1,1
      [3,3]((3,20,30),(6,40,61),(4,27,41)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,20),(3,20,30),(6,40,61)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,20),(6,40,61),(7,47,72)); lvl=5; h,r-ind=1,1
    [3,3]((4,27,41),(2,14,21),(3,20,30)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,11),(7,47,72),(4,27,41),(2,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((5,34,52),(7,47,72),(4,27,41)); lvl=5; h,r-ind=1,1
      [3,3]((2,14,21),(5,34,52),(4,27,41)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,11),(2,14,21),(5,34,52)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,11),(5,34,52),(7,47,72)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,11),(2,13,21),(2,13,20),(7,47,72)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((3,20,31),(2,13,20),(2,13,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,11),(3,20,31),(2,13,21)); lvl=5; h,r-ind=1,1
      [3,3]((7,47,72),(3,20,31),(2,13,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,11),(7,47,72),(3,20,31)); lvl=5; h,r-ind=1,1
  [3,3]((1,7,11),(2,13,21),(3,20,33)); lvl=3; h,r-ind=1,1
  [4,3]((2,14,23),(4,27,45),(1,7,11),(3,20,33)); lvl=3; h,r-ind=1,1
    [3,3]((4,27,45),(5,34,56),(3,20,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,11),(5,34,56),(3,20,33)); lvl=4; h,r-ind=1,1
    [3,3]((2,14,23),(4,27,45),(5,34,56)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,11),(2,14,23),(5,34,56)); lvl=4; h,r-ind=1,1
  [4,3]((1,9,9),(2,15,18),(2,18,23),(4,30,43)); lvl=3; h,r-ind=3,1
    [3,3]((2,15,21),(4,31,41),(2,15,20)); lvl=4; h,r-ind=2,2; alert-r-inc; optimized-h
    [5,3]((1,8,9),(3,24,31),(2,15,18),(4,31,41),(2,15,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,20),(4,31,41),(7,54,71)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,10),(3,24,31),(4,31,41),(7,54,71)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,24,31),(5,39,51),(4,31,41)); lvl=6; h,r-ind=1,1
        [3,3]((7,54,71),(5,39,51),(4,31,41)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,10),(7,54,71),(5,39,51)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,10),(3,24,31),(5,39,51)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,10),(2,15,20),(7,54,71)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,10),(2,15,20),(2,15,19)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,9),(1,8,10),(2,15,18),(2,15,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,18),(2,15,19),(3,23,28)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,10),(2,15,19),(3,23,28)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,9),(2,15,18),(3,23,28)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,10),(1,8,9),(3,23,28)); lvl=6; h,r-ind=1,1
    [5,3]((1,8,9),(1,9,9),(2,17,21),(2,18,21),(3,24,31)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,9),(1,8,10),(1,9,10),(1,9,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,10),(1,9,10),(2,17,19)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,9),(1,9,10),(2,17,19)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,9),(1,8,10),(2,17,19)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,9),(1,8,9),(2,17,19)); lvl=6; h,r-ind=1,1
      [4,3]((6,51,62),(3,26,31),(1,8,10),(1,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((4,34,41),(3,26,31),(1,9,10)); lvl=6; h,r-ind=1,1
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            [3,3]((1,8,10),(4,34,41),(1,9,10)); lvl=6; h,r-ind=1,1
            [3,3]((6,51,62),(4,34,41),(3,26,31)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,10),(6,51,62),(4,34,41)); lvl=6; h,r-ind=1,1
          [3,3]((3,26,31),(2,18,21),(1,9,10)); lvl=5; h,r-ind=1,1
          [4,3]((6,51,62),(3,26,31),(2,18,21),(2,17,21)); lvl=5; h,r-ind=1,1
            [3,3]((5,43,52),(3,26,31),(2,18,21)); lvl=6; h,r-ind=1,1
            [3,3]((2,17,21),(5,43,52),(2,18,21)); lvl=6; h,r-ind=1,1
            [3,3]((6,51,62),(2,17,21),(5,43,52)); lvl=6; h,r-ind=1,1
            [3,3]((6,51,62),(5,43,52),(3,26,31)); lvl=6; h,r-ind=1,1
          [4,3]((6,51,62),(3,24,31),(1,8,10),(2,17,21)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((1,8,10),(3,24,31),(3,25,31)); lvl=6; h,r-ind=1,1
            [3,3]((2,17,21),(3,24,31),(3,25,31)); lvl=6; h,r-ind=1,1
            [3,3]((6,51,62),(1,8,10),(3,25,31)); lvl=6; h,r-ind=1,1
            [3,3]((2,17,21),(6,51,62),(3,25,31)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,11),(2,17,21),(2,18,21)); lvl=4; h,r-ind=1,1
        [4,3]((3,24,31),(1,8,11),(2,15,21),(4,31,41)); lvl=4; h,r-ind=2,1
          [4,3]((1,8,11),(2,16,21),(2,15,21),(3,23,31)); lvl=5; h,r-ind=1,1
            [3,3]((2,16,21),(3,23,31),(4,31,42)); lvl=6; h,r-ind=1,1
            [3,3]((2,15,21),(3,23,31),(4,31,42)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,11),(2,16,21),(4,31,42)); lvl=6; h,r-ind=1,1
            [3,3]((2,15,21),(1,8,11),(4,31,42)); lvl=6; h,r-ind=1,1
          [4,3]((4,31,41),(3,24,31),(2,16,21),(3,23,31)); lvl=5; h,r-ind=1,1
            [3,3]((2,16,21),(3,24,31),(6,47,62)); lvl=6; h,r-ind=1,1
            [3,3]((4,31,41),(3,24,31),(6,47,62)); lvl=6; h,r-ind=1,1
            [3,3]((3,23,31),(4,31,41),(6,47,62)); lvl=6; h,r-ind=1,1
            [3,3]((3,23,31),(2,16,21),(6,47,62)); lvl=6; h,r-ind=1,1
        [4,3]((1,9,11),(2,17,21),(3,24,31),(1,8,11)); lvl=4; h,r-ind=1,1
          [4,3]((2,17,21),(5,42,53),(2,16,21),(3,24,31)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,16,21),(5,42,53),(4,33,42)); lvl=6; h,r-ind=1,1
            [3,3]((2,17,21),(5,42,53),(4,33,42)); lvl=6; h,r-ind=1,1
            [3,3]((3,24,31),(2,17,21),(4,33,42)); lvl=6; h,r-ind=1,1
            [3,3]((3,24,31),(2,16,21),(4,33,42)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,11),(2,17,21),(5,42,53)); lvl=5; h,r-ind=1,1
          [4,3]((1,8,11),(1,9,11),(5,42,53),(2,16,21)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((1,9,11),(5,42,53),(3,25,32)); lvl=6; h,r-ind=1,1
            [3,3]((2,16,21),(5,42,53),(3,25,32)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,11),(1,9,11),(3,25,32)); lvl=6; h,r-ind=1,1
            [3,3]((2,16,21),(1,8,11),(3,25,32)); lvl=6; h,r-ind=1,1
        [3,3]((2,18,23),(1,9,11),(1,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,11),(4,30,43),(2,15,21)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,13),(2,15,23),(2,18,23),(4,30,43)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc
        [3,3]((1,8,11),(2,15,22),(4,30,43)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,23),(1,8,11),(2,15,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,23),(1,9,12),(1,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,12),(2,18,23),(1,8,11)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,12),(1,9,13),(2,16,23),(1,9,12)); lvl=4; h,r-ind=1,1
          [3,3]((1,9,13),(1,9,12),(2,17,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,16,23),(1,9,12),(2,17,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,12),(1,9,13),(2,17,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,16,23),(1,8,12),(2,17,24)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,12),(2,16,23),(2,15,22),(2,15,23)); lvl=4; h,r-ind=1,1
          [3,3]((3,23,34),(2,15,22),(2,16,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,12),(3,23,34),(2,16,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,12),(2,15,23),(3,23,34)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,23),(3,23,34),(2,15,22)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,13),(2,18,27),(4,31,49),(2,15,23)); lvl=3; h,r-ind=1,1
        [3,3]((3,23,36),(4,31,49),(2,16,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,12),(3,23,36),(2,16,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,12),(4,33,51),(2,16,25)); lvl=4; h,r-ind=1,1
        [4,3]((1,9,13),(1,8,12),(2,18,27),(4,33,51)); lvl=4; h,r-ind=1,1
          [3,3]((1,8,12),(2,17,26),(4,33,51)); lvl=5; h,r-ind=1,1
          [3,3]((4,34,51),(1,8,12),(2,17,26)); lvl=5; h,r-ind=1,1
          [4,3]((1,9,13),(4,34,51),(2,18,27),(2,17,26)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,26,39),(4,34,51),(2,17,26)); lvl=6; h,r-ind=1,1
            [3,3]((2,18,27),(3,26,39),(2,17,26)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,13),(2,18,27),(3,26,39)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,13),(3,26,39),(4,34,51)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,13),(4,34,51),(1,8,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,23),(1,8,12),(3,23,36)); lvl=4; h,r-ind=1,1
[3,3]((1,0,0),(1,9,9),(2,9,18)); lvl=1; h,r-ind=81,9; alert-h-inc
  [5,3]((1,4,8),(1,5,9),(2,10,15),(2,8,13),(4,18,27)); lvl=2; h,r-ind=1,1
    [4,3]((4,18,27),(3,13,20),(2,9,14),(3,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((6,27,41),(3,13,20),(2,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,21),(6,27,41),(2,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,27),(3,14,21),(6,27,41)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,27),(6,27,41),(3,13,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,8),(2,10,15),(2,9,14),(3,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,15),(3,14,21),(4,19,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,14),(3,14,21),(4,19,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,10,15),(4,19,29)); lvl=4; h,r-ind=1,1
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      [3,3]((2,9,14),(1,5,8),(4,19,29)); lvl=4; h,r-ind=1,1
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    [4,3]((1,4,8),(1,4,7),(1,5,9),(1,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,9),(1,5,8),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(1,5,8),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,4,7),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,9),(2,9,16)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,7),(2,8,13),(3,13,20),(2,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,13),(3,13,20),(4,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,14),(3,13,20),(4,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,9,14),(4,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,8,13),(4,17,27)); lvl=4; h,r-ind=1,1
  [5,3]((1,0,0),(2,5,10),(2,9,9),(2,8,13),(4,18,27)); lvl=2; h,r-ind=3,1
    [4,3]((2,7,11),(1,4,6),(4,13,23),(2,8,13)); lvl=3; h,r-ind=1,1
      [4,3]((3,10,17),(2,7,12),(7,25,41),(4,14,23)); lvl=4; h,r-ind=1,1
        [3,3]((6,21,35),(2,7,12),(7,25,41)); lvl=5; h,r-ind=1,1
        [3,3]((6,21,35),(4,14,23),(7,25,41)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,17),(6,21,35),(4,14,23)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,17),(6,21,35),(2,7,12)); lvl=5; h,r-ind=1,1
      [4,3]((2,7,11),(1,4,6),(7,25,41),(4,14,23)); lvl=4; h,r-ind=1,1
        [3,3]((5,18,29),(7,25,41),(1,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,11),(5,18,29),(1,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((5,18,29),(4,14,23),(7,25,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,11),(5,18,29),(4,14,23)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,11),(3,10,17),(4,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,17),(4,13,23),(2,7,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,6),(2,7,12),(2,8,13),(7,25,41)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,7,12),(3,11,18),(2,8,13)); lvl=5; h,r-ind=1,1
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        [3,3]((7,25,41),(1,4,6),(3,11,18)); lvl=5; h,r-ind=1,1
        [3,3]((7,25,41),(2,7,12),(3,11,18)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,6),(3,13,20),(2,8,13)); lvl=3; h,r-ind=1,1
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      [3,3]((2,9,13),(4,18,27),(5,22,33)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,20),(4,18,27),(5,22,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,9,13),(5,22,33)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,20),(1,4,6),(5,22,33)); lvl=4; h,r-ind=1,1
    [4,3]((4,18,23),(2,8,11),(1,4,6),(2,9,13)); lvl=3; h,r-ind=1,1
      [4,3]((7,30,41),(4,17,23),(2,8,11),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,17,23),(2,8,11),(5,21,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(2,8,11),(5,21,29)); lvl=5; h,r-ind=1,1
        [3,3]((7,30,41),(4,17,23),(5,21,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(7,30,41),(5,21,29)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,12),(2,9,13),(7,30,41),(1,4,6)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,13,18),(2,9,13),(1,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((7,30,41),(3,13,18),(1,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,12),(7,30,41),(3,13,18)); lvl=5; h,r-ind=1,1
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      [4,3]((3,13,17),(2,9,12),(7,30,41),(4,17,23)); lvl=4; h,r-ind=1,1
        [3,3]((6,26,35),(7,30,41),(2,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,17),(6,26,35),(2,9,12)); lvl=5; h,r-ind=1,1
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        [3,3]((3,13,17),(6,26,35),(4,17,23)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,17),(4,18,23),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,17),(4,17,23),(2,8,11)); lvl=4; h,r-ind=1,1
    [4,3]((4,13,19),(2,8,11),(2,7,11),(1,4,6)); lvl=3; h,r-ind=1,1
      [4,3]((7,25,37),(2,8,11),(2,7,10),(1,4,6)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,11,16),(2,7,10),(2,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(3,11,16),(2,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((7,25,37),(3,11,16),(2,7,10)); lvl=5; h,r-ind=1,1
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      [4,3]((2,7,11),(7,25,37),(4,14,21),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,18,27),(7,25,37),(4,14,21)); lvl=5; h,r-ind=1,1
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        [3,3]((1,4,6),(5,18,27),(7,25,37)); lvl=5; h,r-ind=1,1
      [4,3]((7,25,37),(4,14,21),(3,10,15),(2,7,10)); lvl=4; h,r-ind=1,1
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        [3,3]((7,25,37),(4,14,21),(6,21,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,10),(7,25,37),(6,21,31)); lvl=5; h,r-ind=1,1
      [3,3]((4,13,19),(3,10,15),(2,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(4,14,21),(3,10,15)); lvl=4; h,r-ind=1,1
    [4,3]((4,13,19),(2,5,5),(2,8,11),(1,4,4)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc
      [4,3]((1,4,5),(1,3,3),(2,7,9),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(1,3,3),(2,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,8),(2,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(1,4,4),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(2,7,8),(1,3,3)); lvl=5; h,r-ind=1,1
      [4,3]((2,7,10),(2,8,11),(1,4,5),(2,7,9)); lvl=4; h,r-ind=1,1
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    [3,3]((2,8,11),(3,11,15),(1,4,5)); lvl=5; h,r-ind=1,1
    [3,3]((2,7,9),(3,11,15),(1,4,5)); lvl=5; h,r-ind=1,1
    [3,3]((2,7,10),(2,8,11),(3,11,15)); lvl=5; h,r-ind=1,1
    [3,3]((2,7,9),(2,7,10),(3,11,15)); lvl=5; h,r-ind=1,1
  [3,3]((1,3,4),(1,3,3),(2,7,9)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,4),(2,7,10),(2,7,9)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,4),(4,13,19),(2,7,10)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,4),(2,5,5),(1,3,3)); lvl=4; h,r-ind=1,1
[4,3]((2,9,9),(4,18,23),(2,8,11),(1,4,4)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,5),(3,13,17),(2,8,11)); lvl=4; h,r-ind=1,1
  [3,3]((2,9,11),(1,4,5),(3,13,17)); lvl=4; h,r-ind=1,1
  [3,3]((2,9,11),(4,18,23),(3,13,17)); lvl=4; h,r-ind=1,1
  [3,3]((2,9,11),(4,18,21),(1,4,5)); lvl=4; h,r-ind=1,1
  [4,3]((2,9,9),(4,18,21),(1,4,4),(1,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((4,17,19),(1,4,5),(1,4,4)); lvl=5; h,r-ind=1,1
    [4,3]((2,9,9),(2,9,10),(4,17,19),(1,4,4)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,10),(4,17,19),(3,13,14)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,4),(4,17,19),(3,13,14)); lvl=6; h,r-ind=1,1
      [3,3]((2,9,9),(1,4,4),(3,13,14)); lvl=6; h,r-ind=1,1
      [3,3]((2,9,9),(2,9,10),(3,13,14)); lvl=6; h,r-ind=1,1
    [3,3]((2,9,10),(4,17,19),(1,4,5)); lvl=5; h,r-ind=1,1
    [3,3]((4,18,21),(2,9,10),(1,4,5)); lvl=5; h,r-ind=1,1
[4,3]((2,5,10),(1,2,4),(2,7,11),(4,13,23)); lvl=3; h,r-ind=3,1
  [3,3]((2,7,11),(1,3,5),(3,10,17)); lvl=4; h,r-ind=1,1
  [3,3]((2,6,11),(1,3,5),(3,10,17)); lvl=4; h,r-ind=1,1
  [3,3]((4,13,23),(2,6,11),(3,10,17)); lvl=4; h,r-ind=1,1
  [4,3]((2,5,10),(2,6,11),(1,2,4),(1,3,5)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,15),(1,3,5),(2,6,11)); lvl=5; h,r-ind=1,1
    [3,3]((2,5,10),(3,8,15),(2,6,11)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,10),(3,8,15)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,4),(3,8,15),(1,3,5)); lvl=5; h,r-ind=1,1
[4,3]((2,3,6),(1,2,4),(4,13,19),(2,7,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,5),(3,10,15),(2,7,11)); lvl=4; h,r-ind=1,1
  [3,3]((2,6,9),(1,3,5),(3,10,15)); lvl=4; h,r-ind=1,1
  [3,3]((4,13,19),(2,6,9),(3,10,15)); lvl=4; h,r-ind=1,1
  [3,3]((2,6,9),(2,5,8),(1,3,5)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,6),(2,5,8),(1,2,4),(1,3,5)); lvl=4; h,r-ind=1,1
    [4,3]((2,4,7),(2,5,8),(1,3,5),(4,9,16)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,7,12),(2,5,8),(1,3,5)); lvl=6; h,r-ind=1,1
      [3,3]((4,9,16),(3,7,12),(1,3,5)); lvl=6; h,r-ind=1,1
      [3,3]((2,4,7),(4,9,16),(3,7,12)); lvl=6; h,r-ind=1,1
      [3,3]((2,4,7),(3,7,12),(2,5,8)); lvl=6; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,5),(4,9,16)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,4),(2,3,6),(2,4,7),(4,9,16)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,6),(3,6,11),(2,4,7)); lvl=6; h,r-ind=1,1
      [3,3]((4,9,16),(3,6,11),(2,4,7)); lvl=6; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,6),(3,6,11)); lvl=6; h,r-ind=1,1
      [3,3]((4,9,16),(1,2,4),(3,6,11)); lvl=6; h,r-ind=1,1
[4,3]((1,0,0),(2,3,6),(4,13,19),(2,5,5)); lvl=3; h,r-ind=3,1
  [3,3]((2,6,9),(1,3,4),(4,13,19)); lvl=4; h,r-ind=1,1
  [4,3]((2,6,9),(3,7,10),(4,10,15),(1,3,4)); lvl=4; h,r-ind=2,1
    [4,3]((3,8,12),(2,5,7),(4,10,15),(3,7,10)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,7),(3,7,10),(6,15,22)); lvl=6; h,r-ind=1,1
      [3,3]((4,10,15),(3,7,10),(6,15,22)); lvl=6; h,r-ind=1,1
      [3,3]((3,8,12),(2,5,7),(6,15,22)); lvl=6; h,r-ind=1,1
      [3,3]((4,10,15),(3,8,12),(6,15,22)); lvl=6; h,r-ind=1,1
    [4,3]((2,6,9),(3,8,12),(1,3,4),(2,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,7),(3,8,12),(4,11,16)); lvl=6; h,r-ind=1,1
      [3,3]((2,6,9),(3,8,12),(4,11,16)); lvl=6; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(4,11,16)); lvl=6; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(4,11,16)); lvl=6; h,r-ind=1,1
  [4,3]((1,2,2),(2,4,5),(3,7,10),(1,3,4)); lvl=4; h,r-ind=1,1
    [4,3]((2,4,5),(5,11,14),(2,5,7),(3,7,10)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((4,9,12),(2,5,7),(5,11,14)); lvl=6; h,r-ind=1,1
      [3,3]((2,4,5),(4,9,12),(5,11,14)); lvl=6; h,r-ind=1,1
      [3,3]((3,7,10),(4,9,12),(2,5,7)); lvl=6; h,r-ind=1,1
      [3,3]((2,4,5),(3,7,10),(4,9,12)); lvl=6; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,5),(5,11,14)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,4),(1,2,2),(5,11,14),(2,5,7)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,7,9),(1,2,2),(5,11,14)); lvl=6; h,r-ind=1,1
      [3,3]((3,7,9),(2,5,7),(5,11,14)); lvl=6; h,r-ind=1,1
      [3,3]((1,3,4),(3,7,9),(2,5,7)); lvl=6; h,r-ind=1,1
      [3,3]((1,3,4),(3,7,9),(1,2,2)); lvl=6; h,r-ind=1,1
  [3,3]((1,2,2),(2,5,5),(1,3,4)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,2),(2,3,3),(2,4,5)); lvl=4; h,r-ind=1,1
  [3,3]((2,6,9),(2,5,8),(4,10,15)); lvl=4; h,r-ind=2,2; alert-r-inc; optimized-h
  [5,3]((1,1,2),(2,3,6),(3,7,10),(2,5,8),(4,10,15)); lvl=4; h,r-ind=1,1
    [3,3]((7,17,26),(2,5,8),(4,10,15)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,3),(7,17,26),(3,7,10),(4,10,15)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((4,10,15),(5,12,18),(7,17,26)); lvl=6; h,r-ind=1,1
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          [3,3]((1,2,3),(5,12,18),(7,17,26)); lvl=6; h,r-ind=1,1
          [3,3]((3,7,10),(1,2,3),(5,12,18)); lvl=6; h,r-ind=1,1
          [3,3]((3,7,10),(4,10,15),(5,12,18)); lvl=6; h,r-ind=1,1
      [3,3]((1,2,3),(7,17,26),(2,5,8)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,7),(2,5,8)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,3),(1,1,2),(2,3,6),(2,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(2,3,6),(3,5,9)); lvl=6; h,r-ind=1,1
        [3,3]((2,4,7),(2,3,6),(3,5,9)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,7),(3,5,9)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,3),(1,1,2),(3,5,9)); lvl=6; h,r-ind=1,1
    [5,3]((1,0,0),(2,3,3),(2,4,5),(1,1,2),(3,7,10)); lvl=4; h,r-ind=1,1
      [4,3]((2,4,5),(6,11,14),(1,2,3),(3,7,10)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((3,6,8),(6,11,14),(1,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((3,7,10),(3,6,8),(1,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,10),(3,6,8)); lvl=6; h,r-ind=1,1
        [3,3]((2,4,5),(3,6,8),(6,11,14)); lvl=6; h,r-ind=1,1
      [4,3]((1,1,1),(3,5,6),(6,11,14),(1,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,9),(3,5,6),(6,11,14)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,3),(4,7,9),(6,11,14)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,3),(4,7,9)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,1),(4,7,9),(3,5,6)); lvl=6; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,1),(1,1,2),(1,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,3),(2,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,2),(1,2,3),(2,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=6; h,r-ind=1,1
      [4,3]((2,3,3),(2,4,5),(3,5,6),(6,11,14)); lvl=5; h,r-ind=1,1
        [3,3]((5,9,11),(6,11,14),(2,4,5)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,3),(5,9,11),(2,4,5)); lvl=6; h,r-ind=1,1
        [3,3]((3,5,6),(5,9,11),(6,11,14)); lvl=6; h,r-ind=1,1
        [3,3]((3,5,6),(2,3,3),(5,9,11)); lvl=6; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(3,5,6)); lvl=5; h,r-ind=1,1
[5,3]((1,9,9),(2,9,9),(2,13,18),(2,10,15),(4,18,27)); lvl=2; h,r-ind=3,1
  [4,3]((2,9,13),(1,5,7),(4,18,27),(3,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((5,23,34),(3,14,21),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,13),(5,23,34),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((4,18,27),(5,23,34),(3,14,21)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,13),(4,18,27),(5,23,34)); lvl=4; h,r-ind=1,1
  [3,3]((2,10,15),(1,5,7),(3,14,21)); lvl=3; h,r-ind=1,1
  [4,3]((2,10,15),(4,23,33),(1,5,7),(2,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,22,31),(2,11,15),(3,17,24)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,16),(4,22,31),(7,38,54),(3,17,24)); lvl=4; h,r-ind=1,1
      [3,3]((6,33,47),(7,38,54),(4,22,31)); lvl=5; h,r-ind=1,1
      [3,3]((3,17,24),(6,33,47),(4,22,31)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,16),(3,17,24),(6,33,47)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,16),(6,33,47),(7,38,54)); lvl=5; h,r-ind=1,1
    [3,3]((2,11,16),(4,23,33),(3,17,24)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,7),(2,10,15),(2,11,16),(7,38,54)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((3,16,23),(2,10,15),(2,11,16)); lvl=5; h,r-ind=1,1
      [3,3]((7,38,54),(3,16,23),(2,11,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(7,38,54),(3,16,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(3,16,23),(2,10,15)); lvl=5; h,r-ind=1,1
    [4,3]((1,5,7),(4,22,31),(7,38,54),(2,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((5,27,38),(7,38,54),(4,22,31)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,15),(5,27,38),(4,22,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,15),(5,27,38)); lvl=5; h,r-ind=1,1
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  [4,3]((2,10,13),(4,23,29),(1,5,7),(2,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,22,29),(2,11,15),(3,17,22)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,14),(4,22,29),(7,38,50),(3,17,22)); lvl=4; h,r-ind=1,1
      [3,3]((7,38,50),(6,33,43),(4,22,29)); lvl=5; h,r-ind=1,1
      [3,3]((3,17,22),(6,33,43),(4,22,29)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,14),(3,17,22),(6,33,43)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,14),(7,38,50),(6,33,43)); lvl=5; h,r-ind=1,1
    [3,3]((2,11,14),(4,23,29),(3,17,22)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,7),(2,10,13),(2,11,14),(7,38,50)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((3,16,21),(2,11,14),(2,10,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(3,16,21),(2,10,13)); lvl=5; h,r-ind=1,1
      [3,3]((7,38,50),(3,16,21),(2,11,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(7,38,50),(3,16,21)); lvl=5; h,r-ind=1,1
    [4,3]((1,5,7),(4,22,29),(7,38,50),(2,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((5,27,36),(7,38,50),(4,22,29)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,15),(5,27,36),(4,22,29)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,15),(5,27,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(5,27,36),(7,38,50)); lvl=5; h,r-ind=1,1
  [4,3]((2,15,18),(1,7,9),(4,23,29),(2,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(2,11,15),(3,17,22)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,15),(1,6,8),(3,17,22)); lvl=4; h,r-ind=1,1
    [3,3]((4,23,29),(2,12,15),(3,17,22)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,16),(2,12,15),(1,6,8)); lvl=4; h,r-ind=1,1
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  [4,3]((2,15,18),(2,13,16),(1,6,8),(1,7,9)); lvl=4; h,r-ind=1,1
    [4,3]((2,14,17),(2,13,16),(1,6,8),(4,27,34)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((1,6,8),(2,13,16),(3,20,25)); lvl=6; h,r-ind=1,1
      [3,3]((2,14,17),(2,13,16),(3,20,25)); lvl=6; h,r-ind=1,1
      [3,3]((4,27,34),(1,6,8),(3,20,25)); lvl=6; h,r-ind=1,1
      [3,3]((2,14,17),(4,27,34),(3,20,25)); lvl=6; h,r-ind=1,1
    [3,3]((1,7,9),(1,6,8),(4,27,34)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,9),(2,15,18),(2,14,17),(4,27,34)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,21,26),(2,15,18),(2,14,17)); lvl=6; h,r-ind=1,1
      [3,3]((4,27,34),(3,21,26),(2,14,17)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,9),(4,27,34),(3,21,26)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,9),(3,21,26),(2,15,18)); lvl=6; h,r-ind=1,1
[4,3]((1,7,9),(2,13,18),(4,23,33),(2,11,15)); lvl=3; h,r-ind=3,1
  [3,3]((2,12,17),(3,17,24),(4,23,33)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,8),(2,12,17),(3,17,24)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,15),(1,6,8),(3,17,24)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,8),(1,7,9),(2,12,17),(2,13,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(2,13,18),(3,19,26)); lvl=5; h,r-ind=1,1
    [3,3]((2,12,17),(2,13,18),(3,19,26)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,8),(1,7,9),(3,19,26)); lvl=5; h,r-ind=1,1
    [3,3]((2,12,17),(1,6,8),(3,19,26)); lvl=5; h,r-ind=1,1
[4,3]((4,18,23),(2,9,13),(2,10,13),(1,5,7)); lvl=3; h,r-ind=1,1
  [4,3]((2,10,13),(4,19,25),(7,33,44),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((5,24,32),(4,19,25),(7,33,44)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,7),(5,24,32),(7,33,44)); lvl=5; h,r-ind=1,1
    [3,3]((2,10,13),(5,24,32),(4,19,25)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,7),(2,10,13),(5,24,32)); lvl=5; h,r-ind=1,1
  [4,3]((2,9,13),(2,9,12),(7,33,44),(1,5,7)); lvl=4; h,r-ind=1,3; alert-r-inc
    [3,3]((2,9,12),(7,33,44),(3,14,19)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,7),(7,33,44),(3,14,19)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,13),(2,9,12),(3,14,19)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,13),(3,14,19)); lvl=5; h,r-ind=1,1
  [3,3]((3,14,18),(2,10,13),(4,19,25)); lvl=4; h,r-ind=1,1
  [4,3]((2,9,12),(3,14,18),(4,19,25),(7,33,44)); lvl=4; h,r-ind=1,1
    [3,3]((3,14,18),(6,28,37),(4,19,25)); lvl=5; h,r-ind=1,1
    [3,3]((7,33,44),(6,28,37),(4,19,25)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,12),(7,33,44),(6,28,37)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,12),(3,14,18),(6,28,37)); lvl=5; h,r-ind=1,1
  [3,3]((4,18,23),(2,9,12),(3,14,18)); lvl=4; h,r-ind=1,1
[4,3]((2,9,9),(1,5,5),(4,18,23),(2,10,13)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,6),(3,14,18),(2,10,13)); lvl=4; h,r-ind=1,1
  [3,3]((2,9,11),(1,5,6),(3,14,18)); lvl=4; h,r-ind=1,1
  [3,3]((4,18,23),(2,9,11),(3,14,18)); lvl=4; h,r-ind=1,1
  [3,3]((2,9,11),(4,18,21),(1,5,6)); lvl=4; h,r-ind=1,1
  [4,3]((2,9,9),(4,18,21),(1,5,6),(1,5,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,10),(4,18,21)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,10),(4,19,21)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,5),(1,5,6),(4,19,21)); lvl=5; h,r-ind=1,1
    [4,3]((1,5,5),(2,9,9),(2,9,10),(4,19,21)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,9),(3,14,15),(2,9,10)); lvl=6; h,r-ind=1,1
      [3,3]((4,19,21),(3,14,15),(2,9,10)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,5),(4,19,21),(3,14,15)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,5),(2,9,9),(3,14,15)); lvl=6; h,r-ind=1,1
[4,3]((1,5,5),(2,13,13),(2,10,13),(4,23,29)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc
  [3,3]((1,6,7),(2,11,14),(4,23,29)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,7),(2,11,13),(2,11,14)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,6),(2,10,13),(2,11,13),(2,11,14)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,14),(3,16,20),(2,11,13)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,6),(3,16,20),(2,11,13)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,6),(2,10,13),(3,16,20)); lvl=5; h,r-ind=1,1
    [3,3]((2,10,13),(2,11,14),(3,16,20)); lvl=5; h,r-ind=1,1
  [3,3]((1,6,6),(1,6,7),(2,11,13)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,6),(2,13,13),(1,6,7)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,5),(1,5,6),(1,6,6),(2,11,13)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,12),(1,5,6),(2,11,13)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,6),(2,11,12),(2,11,13)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,5),(2,11,12),(1,5,6)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,6),(1,5,5),(2,11,12)); lvl=5; h,r-ind=1,1
[4,3]((1,9,9),(2,15,18),(2,13,13),(4,23,29)); lvl=3; h,r-ind=3,1
  [3,3]((1,6,7),(4,23,29),(2,12,15)); lvl=4; h,r-ind=1,1
  [4,3]((3,20,23),(1,6,7),(4,26,31),(2,12,15)); lvl=4; h,r-ind=2,1
    [4,3]((2,13,15),(3,19,23),(1,6,7),(2,12,15)); lvl=5; h,r-ind=1,1
      [3,3]((4,25,30),(2,12,15),(1,6,7)); lvl=6; h,r-ind=1,1
      [3,3]((2,13,15),(4,25,30),(1,6,7)); lvl=6; h,r-ind=1,1
      [3,3]((3,19,23),(4,25,30),(2,12,15)); lvl=6; h,r-ind=1,1
      [3,3]((2,13,15),(3,19,23),(4,25,30)); lvl=6; h,r-ind=1,1
    [4,3]((3,20,23),(2,13,15),(4,26,31),(3,19,23)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,15),(3,19,23),(6,39,46)); lvl=6; h,r-ind=1,1
      [3,3]((4,26,31),(3,19,23),(6,39,46)); lvl=6; h,r-ind=1,1
      [3,3]((3,20,23),(2,13,15),(6,39,46)); lvl=6; h,r-ind=1,1
```

```
            [3,3]((4,26,31),(3,20,23),(6,39,46)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,16),(4,26,31),(2,12,15)); lvl=4; h,r-ind=2,2; alert-r-inc; optimized-h
        [5,3]((3,20,23),(1,8,9),(2,15,18),(2,13,16),(4,26,31)); lvl=4; h,r-ind=1,1
          [4,3]((1,7,8),(2,15,18),(2,14,17),(1,8,9)); lvl=5; h,r-ind=1,1
            [3,3]((2,14,17),(2,15,18),(3,22,26)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,9),(2,15,18),(3,22,26)); lvl=6; h,r-ind=1,1
            [3,3]((1,7,8),(2,14,17),(3,22,26)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,9),(1,7,8),(3,22,26)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,8),(2,14,17),(2,13,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(7,46,55),(2,13,16)); lvl=5; h,r-ind=1,1
          [4,3]((3,20,23),(1,7,8),(7,46,55),(4,26,31)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((5,33,39),(7,46,55),(1,7,8)); lvl=6; h,r-ind=1,1
            [3,3]((3,20,23),(5,33,39),(1,7,8)); lvl=6; h,r-ind=1,1
            [3,3]((5,33,39),(4,26,31),(7,46,55)); lvl=6; h,r-ind=1,1
            [3,3]((3,20,23),(5,33,39),(4,26,31)); lvl=6; h,r-ind=1,1
          [3,3]((7,46,55),(4,26,31),(2,13,16)); lvl=5; h,r-ind=1,1
        [5,3]((1,9,9),(3,20,23),(2,14,15),(2,15,15),(1,8,9)); lvl=4; h,r-ind=1,1
          [4,3]((1,8,9),(1,7,8),(1,8,8),(1,9,9)); lvl=5; h,r-ind=1,1
            [3,3]((1,7,8),(1,8,8),(2,16,17)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,9),(1,8,8),(2,16,17)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,9),(1,7,8),(2,16,17)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,9),(1,8,9),(2,16,17)); lvl=6; h,r-ind=1,1
          [4,3]((1,7,8),(6,43,46),(3,22,23),(1,8,8)); lvl=5; h,r-ind=1,1
            [3,3]((4,29,31),(3,22,23),(6,43,46)); lvl=6; h,r-ind=1,1
            [3,3]((1,7,8),(4,29,31),(6,43,46)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,8),(1,7,8),(4,29,31)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,8),(4,29,31),(3,22,23)); lvl=6; h,r-ind=1,1
          [3,3]((3,22,23),(2,15,15),(1,8,8)); lvl=5; h,r-ind=1,1
          [4,3]((6,43,46),(3,22,23),(2,14,15),(2,15,15)); lvl=5; h,r-ind=1,1
            [3,3]((5,36,38),(3,22,23),(2,15,15)); lvl=6; h,r-ind=1,1
            [3,3]((2,14,15),(5,36,38),(2,15,15)); lvl=6; h,r-ind=1,1
            [3,3]((6,43,46),(5,36,38),(3,22,23)); lvl=6; h,r-ind=1,1
            [3,3]((2,14,15),(6,43,46),(5,36,38)); lvl=6; h,r-ind=1,1
          [4,3]((3,20,23),(1,7,8),(6,43,46),(2,14,15)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((3,21,23),(1,7,8),(6,43,46)); lvl=6; h,r-ind=1,1
            [3,3]((3,21,23),(2,14,15),(6,43,46)); lvl=6; h,r-ind=1,1
            [3,3]((3,20,23),(3,21,23),(2,14,15)); lvl=6; h,r-ind=1,1
            [3,3]((3,20,23),(3,21,23),(1,7,8)); lvl=6; h,r-ind=1,1
        [4,3]((3,20,23),(1,6,7),(1,7,7),(2,14,15)); lvl=4; h,r-ind=1,1
          [4,3]((1,6,7),(2,13,15),(1,7,7),(5,34,37)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,13,15),(5,34,37),(3,20,22)); lvl=6; h,r-ind=1,1
            [3,3]((1,7,7),(5,34,37),(3,20,22)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,7),(1,7,7),(3,20,22)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,7),(2,13,15),(3,20,22)); lvl=6; h,r-ind=1,1
          [3,3]((2,14,15),(1,7,7),(5,34,37)); lvl=5; h,r-ind=1,1
          [4,3]((3,20,23),(2,14,15),(2,13,15),(5,34,37)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((4,27,30),(2,14,15),(5,34,37)); lvl=6; h,r-ind=1,1
            [3,3]((2,13,15),(4,27,30),(5,34,37)); lvl=6; h,r-ind=1,1
            [3,3]((3,20,23),(4,27,30),(2,14,15)); lvl=6; h,r-ind=1,1
            [3,3]((2,13,15),(3,20,23),(4,27,30)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(2,13,13),(1,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,7),(2,14,15),(2,15,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,10),(1,4,8),(2,8,13)); lvl=2; h,r-ind=9,3; optimized-h
    [3,3]((1,4,8),(2,9,18),(1,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,13,18),(1,5,9),(2,10,15)); lvl=2; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,9,18),(1,9,9)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,9,9)); lvl=1; h,r-ind=9,9; optimized-h
```

18.14 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,18)); lvl=0; h,r-ind=18,54
  [4,3]((2,3,9),(2,3,15),(1,0,0),(1,1,6)); lvl=1; h,r-ind=3,3
    [3,3]((1,1,5),(1,1,6),(2,3,15)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,12),(2,2,9),(1,1,5),(2,3,15)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,27),(1,1,5),(2,2,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,12),(5,6,27),(2,2,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((4,6,27),(2,3,15),(5,6,27),(1,1,5)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,3,14),(7,9,42),(1,1,5),(2,3,15)); lvl=4; h,r-ind=1,3
          [3,3]((3,4,19),(1,1,5),(7,9,42)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,14),(3,4,19),(7,9,42)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,15),(3,4,19),(1,1,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,14),(2,3,15),(3,4,19)); lvl=5; h,r-ind=1,1
        [4,3]((3,4,18),(7,9,42),(5,6,27),(1,1,5)); lvl=4; h,r-ind=1,3
          [3,3]((7,9,42),(4,5,23),(1,1,5)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,27),(4,5,23),(1,1,5)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,18),(5,6,27),(4,5,23)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,18),(7,9,42),(4,5,23)); lvl=5; h,r-ind=1,1
```

```
      [3,3]((2,3,14),(3,4,18),(7,9,42)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((4,6,27),(2,3,14),(3,4,18)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,12),(4,6,27),(5,6,27)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,3,9),(2,3,12),(2,2,9),(1,1,3)); lvl=2; h,r-ind=3,1
    [3,3]((1,1,4),(2,3,12),(2,2,9)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,21),(1,1,4),(2,3,12)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((2,3,9),(4,6,21),(1,1,3),(1,1,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(1,1,3),(4,5,17)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,10),(2,3,9),(1,1,3),(4,5,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,13),(1,1,3),(2,3,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(3,4,13),(2,3,9)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,17),(3,4,13),(1,1,3)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(4,5,17),(3,4,13)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,10),(1,1,4),(4,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,21),(2,3,10),(1,1,4)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,9),(1,1,3)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(2,2,9),(1,1,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,5),(1,1,6)); lvl=2; h,r-ind=1,1
[3,3]((2,3,15),(2,3,17),(1,1,6)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((2,3,18),(2,3,17),(1,1,6)); lvl=1; h,r-ind=1,1
[4,3]((1,2,9),(1,2,8),(2,3,15),(2,3,17)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,8),(4,7,33),(2,3,15),(2,3,16)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,3,15),(3,5,24),(2,3,16)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,33),(3,5,24),(2,3,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,8),(4,7,33),(3,5,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,8),(2,3,15),(3,5,24)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,17),(1,2,9),(4,7,33),(2,3,16)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((3,5,25),(4,7,33),(1,2,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,17),(3,5,25),(1,2,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,25),(2,3,16),(4,7,33)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,17),(3,5,25),(2,3,16)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,9),(1,2,8),(4,7,33)); lvl=2; h,r-ind=1,1
[3,3]((2,3,18),(1,2,9),(2,3,17)); lvl=1; h,r-ind=1,1
[3,3]((0,1,0),(1,2,9),(1,2,8)); lvl=1; h,r-ind=1,1
[4,3]((0,1,0),(1,2,8),(2,3,9),(2,3,15)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,6),(2,3,15),(1,2,7),(2,3,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,7),(5,9,33),(4,6,27),(2,3,15)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,5,20),(4,6,27),(2,3,14)); lvl=4; h,r-ind=1,1
      [3,3]((7,12,48),(3,5,20),(2,3,14)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,7),(2,3,15),(7,12,48),(2,3,14)); lvl=4; h,r-ind=1,3
        [3,3]((3,5,21),(2,3,15),(2,3,14)); lvl=5; h,r-ind=1,1
        [3,3]((7,12,48),(3,5,21),(2,3,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(7,12,48),(3,5,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(3,5,21),(2,3,15)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,7),(7,12,48),(3,5,20),(5,9,33)); lvl=4; h,r-ind=1,3
        [3,3]((4,7,27),(7,12,48),(3,5,20)); lvl=5; h,r-ind=1,1
        [3,3]((5,9,33),(4,7,27),(3,5,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(5,9,33),(4,7,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(4,7,27),(7,12,48)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,6),(1,2,7),(5,9,33)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,12),(1,2,6),(5,9,33),(4,6,27)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((7,12,45),(3,5,20),(1,2,6),(5,9,33)); lvl=4; h,r-ind=1,3
        [3,3]((3,5,20),(4,7,26),(5,9,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(4,7,26),(5,9,33)); lvl=5; h,r-ind=1,1
        [3,3]((7,12,45),(1,2,6),(4,7,26)); lvl=5; h,r-ind=1,1
        [3,3]((7,12,45),(3,5,20),(4,7,26)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,13),(2,3,12),(7,12,45),(1,2,6)); lvl=4; h,r-ind=1,3
        [3,3]((3,5,19),(2,3,12),(1,2,6)); lvl=5; h,r-ind=1,1
        [3,3]((7,12,45),(3,5,19),(1,2,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,13),(7,12,45),(3,5,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,13),(3,5,19),(2,3,12)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,13),(7,12,45),(3,5,20)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,3,13),(4,6,27),(3,5,20)); lvl=4; h,r-ind=1,1
  [4,3]((1,2,5),(1,2,6),(2,3,9),(2,3,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,6),(5,9,27),(2,3,12),(4,6,21)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,5,16),(4,6,21),(2,3,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,16),(7,12,39),(2,3,11)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,6),(2,3,12),(7,12,39),(2,3,11)); lvl=4; h,r-ind=1,3
        [3,3]((3,5,17),(2,3,12),(2,3,11)); lvl=5; h,r-ind=1,1
        [3,3]((7,12,39),(3,5,17),(2,3,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(7,12,39),(3,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(3,5,17),(2,3,12)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,6),(5,9,27),(3,5,16),(7,12,39)); lvl=4; h,r-ind=1,3
        [3,3]((3,5,16),(5,9,27),(4,7,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(5,9,27),(4,7,22)); lvl=5; h,r-ind=1,1
        [3,3]((7,12,39),(3,5,16),(4,7,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(7,12,39),(4,7,22)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,5),(5,9,27),(2,3,9),(4,6,21)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,5,16),(2,3,10),(7,12,36)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,5),(2,3,9),(2,3,10),(7,12,36)); lvl=4; h,r-ind=1,3
```

```
          [3,3]((2,3,10),(3,5,15),(2,3,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(3,5,15),(2,3,9)); lvl=5; h,r-ind=1,1
          [3,3]((7,12,36),(1,2,5),(3,5,15)); lvl=5; h,r-ind=1,1
          [3,3]((7,12,36),(2,3,10),(3,5,15)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,5),(5,9,27),(3,5,16),(7,12,36)); lvl=4; h,r-ind=1,3
          [3,3]((5,9,27),(4,7,21),(3,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((7,12,36),(4,7,21),(3,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(7,12,36),(4,7,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(5,9,27),(4,7,21)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,16),(4,6,21),(2,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,6),(5,9,27)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,5),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,5),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,6),(1,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,8),(2,3,15),(1,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,8),(1,2,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,9),(1,0,0)); lvl=1; h,r-ind=9,27; optimized-h
```

18.15 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,5,18)); lvl=0; h,r-ind=18,162
  [3,3]((2,3,10),(1,2,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,18),(1,2,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,10),(1,2,6),(1,2,4),(1,0,0)); lvl=1; h,r-ind=2,2
    [4,3]((1,1,3),(1,2,5),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,2,5),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,1,3),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(1,1,3),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,10),(1,1,3)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,5,9),(1,2,4),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,9),(2,5,8),(1,2,4)); lvl=2; h,r-ind=1,1
    [5,3]((1,1,2),(1,2,2),(2,5,5),(2,5,8),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,5),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,5),(4,10,13)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,3),(2,5,8),(4,10,13)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,3),(1,2,4),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,5),(2,5,8)); lvl=2; h,r-ind=6,6; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,5,9),(2,5,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((2,5,9),(2,5,13),(3,7,20),(1,2,6),(1,2,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,20),(3,7,19),(2,5,13)); lvl=2; h,r-ind=1,1
    [4,3]((6,14,33),(2,5,11),(3,7,19),(2,5,13)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,19),(6,14,35),(2,5,13),(2,5,12)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,13),(7,17,43),(2,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,18),(7,17,43),(2,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,18),(6,14,35),(2,5,12)); lvl=4; h,r-ind=1,1
        [4,3]((3,7,18),(3,7,19),(2,5,13),(7,17,43)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,12,31),(3,7,19),(2,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((7,17,43),(5,12,31),(2,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,18),(7,17,43),(5,12,31)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,18),(5,12,31),(3,7,19)); lvl=5; h,r-ind=1,1
      [4,3]((3,7,17),(6,14,35),(2,5,11),(2,5,12)); lvl=3; h,r-ind=1,1
        [3,3]((5,12,29),(2,5,12),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,17),(5,12,29),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,17),(6,14,35),(5,12,29)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,35),(5,12,29),(2,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((6,14,33),(3,7,17),(2,5,11)); lvl=3; h,r-ind=1,1
    [5,3]((2,5,9),(6,14,33),(2,5,11),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,24),(1,2,4),(1,2,5)); lvl=3; h,r-ind=1,1
      [4,3]((5,11,24),(3,7,15),(3,7,16),(1,2,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,15),(3,7,16),(4,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(3,7,16),(4,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,24),(3,7,15),(4,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(5,11,24),(4,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,16),(6,14,33),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(3,7,16),(6,14,33)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,10),(2,5,11),(3,7,15),(3,7,16)); lvl=3; h,r-ind=1,1
        [3,3]((5,12,26),(3,7,16),(3,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(5,12,26),(3,7,15)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,5,11),(5,12,26),(3,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(2,5,11),(5,12,26)); lvl=4; h,r-ind=1,1
    [5,3]((2,5,9),(2,5,10),(5,11,24),(3,7,15),(1,2,4)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,15),(4,9,19),(7,16,33),(6,14,29)); lvl=4; h,r-ind=1,1
        [3,3]((10,23,48),(7,16,33),(4,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,15),(10,23,48),(4,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((6,14,29),(10,23,48),(7,16,33)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,15),(6,14,29),(10,23,48)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,10),(3,7,14),(7,16,33),(6,14,29)); lvl=4; h,r-ind=1,1
        [3,3]((9,21,43),(7,16,33),(3,7,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,10),(9,21,43),(3,7,14)); lvl=5; h,r-ind=1,1
        [3,3]((6,14,29),(9,21,43),(7,16,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,10),(6,14,29),(9,21,43)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,10),(2,5,9),(3,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,14),(7,16,33)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,9),(1,2,4),(3,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(3,7,15),(6,14,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,15),(5,11,24),(4,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(5,11,24),(4,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(4,9,19),(7,16,33)); lvl=4; h,r-ind=1,1
  [3,3]((3,7,20),(3,7,19),(1,2,6)); lvl=2; h,r-ind=1,1
  [4,3]((6,14,33),(1,2,5),(3,7,19),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,6),(6,13,34)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,19),(6,14,35),(1,2,6),(6,13,34)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,2,6),(9,20,53),(4,9,23),(6,13,34)); lvl=4; h,r-ind=1,3
        [3,3]((4,9,23),(5,11,29),(9,20,53)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(5,11,29),(9,20,53)); lvl=5; h,r-ind=1,1
        [3,3]((6,13,34),(4,9,23),(5,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(6,13,34),(5,11,29)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,18),(9,20,53),(4,9,23)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,6),(3,7,19),(3,7,18),(9,20,53)); lvl=4; h,r-ind=1,3
        [3,3]((4,9,24),(3,7,18),(3,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(4,9,24),(3,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((9,20,53),(4,9,24),(3,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(9,20,53),(4,9,24)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,18),(4,9,23),(6,14,35)); lvl=4; h,r-ind=1,1
    [4,3]((3,7,17),(6,14,35),(1,2,5),(6,13,34)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(4,9,23),(6,13,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(8,18,45),(4,9,23)); lvl=4; h,r-ind=1,1
      [4,3]((3,7,17),(8,18,45),(6,14,35),(4,9,23)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((8,18,45),(7,16,40),(4,9,23)); lvl=5; h,r-ind=1,1
        [3,3]((6,14,35),(7,16,40),(4,9,23)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,17),(8,18,45),(7,16,40)); lvl=5; h,r-ind=1,1
        [3,3]((6,14,35),(3,7,17),(7,16,40)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,17),(1,2,5),(8,18,45)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,17),(6,14,33),(1,2,5)); lvl=3; h,r-ind=1,1
[4,3]((0,1,0),(2,5,9),(1,3,7),(2,5,13)); lvl=1; h,r-ind=1,1
  [4,3]((2,6,11),(2,5,11),(1,3,6),(2,5,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,6),(4,11,23),(2,5,12),(2,5,13)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,18),(4,11,23),(2,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(3,8,18),(2,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,13),(3,8,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(3,8,18),(4,11,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(2,6,11),(4,11,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(4,11,23),(2,5,12)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,6,11),(2,5,11),(4,11,23)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,3,7),(1,3,6),(2,5,13)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,7),(1,3,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,6,11),(1,3,6)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,9),(1,3,5),(2,6,11),(2,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,21),(1,3,5),(2,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(4,11,21),(2,6,11)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,5,10),(2,5,11),(4,11,21)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,5,10),(2,5,9),(4,11,21),(1,3,5)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,9),(3,8,15),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,21),(3,8,15),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(4,11,21),(3,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(2,5,9),(3,8,15)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,9),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,5),(2,6,11)); lvl=2; h,r-ind=1,1
[3,3]((2,3,10),(1,2,6),(1,2,7)); lvl=1; h,r-ind=1,1
[4,3]((3,7,20),(1,2,6),(3,7,24),(1,2,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,6),(1,2,7),(7,15,48)); lvl=2; h,r-ind=1,1
  [4,3]((3,7,24),(3,7,22),(1,2,7),(7,15,48)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
    [4,3]((1,2,7),(5,11,36),(7,15,48),(5,11,35)); lvl=3; h,r-ind=1,2
      [3,3]((5,11,35),(5,11,36),(6,13,42)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(5,11,36),(6,13,42)); lvl=4; h,r-ind=1,1
      [3,3]((7,15,48),(5,11,35),(6,13,42)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(7,15,48),(6,13,42)); lvl=4; h,r-ind=1,1
    [3,3]((5,11,36),(3,7,22),(5,11,35)); lvl=3; h,r-ind=2,2; optimized-h
```

```
      [3,3]((3,7,23),(5,11,36),(3,7,22)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((1,2,7),(3,7,24),(3,7,23),(5,11,36)); lvl=3; h,r-ind=1,2
        [3,3]((4,9,30),(3,7,24),(3,7,23)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,36),(4,9,30),(3,7,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(5,11,36),(4,9,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(4,9,30),(3,7,24)); lvl=4; h,r-ind=1,1
    [4,3]((3,7,20),(3,7,22),(1,2,6),(7,15,48)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,2,6),(5,11,34),(5,11,35),(7,15,48)); lvl=3; h,r-ind=1,2
        [3,3]((5,11,34),(6,13,41),(5,11,35)); lvl=4; h,r-ind=1,1
        [3,3]((7,15,48),(6,13,41),(5,11,35)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(7,15,48),(6,13,41)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(5,11,34),(6,13,41)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,22),(5,11,34),(5,11,35)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((3,7,21),(3,7,22),(5,11,34)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((1,2,6),(3,7,21),(3,7,20),(5,11,34)); lvl=3; h,r-ind=1,2
        [3,3]((4,9,27),(3,7,21),(3,7,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(4,9,27),(3,7,20)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,34),(1,2,6),(4,9,27)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,34),(4,9,27),(3,7,21)); lvl=4; h,r-ind=1,1
  [3,3]((2,5,18),(3,7,24),(1,2,7)); lvl=1; h,r-ind=1,1
  [6,3]((1,3,9),(2,5,17),(1,3,7),(2,5,13),(3,7,20),(3,7,24)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,15),(2,5,14),(3,7,22),(3,7,20)); lvl=2; h,r-ind=1,1
      [4,3]((7,17,50),(2,5,14),(3,7,21),(3,7,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,35),(3,7,21),(3,7,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,14),(5,12,35),(3,7,20)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,50),(5,12,35),(3,7,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,14),(7,17,50),(5,12,35)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,15),(7,17,50),(3,7,22),(3,7,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,22),(5,12,36),(3,7,21)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,50),(5,12,36),(3,7,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,15),(7,17,50),(5,12,36)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,15),(3,7,22),(5,12,36)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,15),(7,17,50),(2,5,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,14),(2,5,13),(3,7,20)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(2,5,14),(2,5,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,8),(2,5,15),(1,3,7),(2,5,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,15),(2,5,14),(3,8,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,14),(3,8,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(1,3,7),(3,8,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(2,5,15),(3,8,22)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,15),(2,5,16),(3,7,24),(3,7,22)); lvl=2; h,r-ind=1,1
      [4,3]((7,17,54),(3,7,23),(2,5,16),(3,7,24)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,39),(3,7,24),(3,7,23)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,54),(5,12,39),(3,7,23)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,39),(2,5,16),(3,7,24)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,54),(5,12,39),(2,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,15),(7,17,54),(2,5,16)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,15),(7,17,54),(3,7,22),(3,7,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,22),(5,12,38),(3,7,23)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,54),(5,12,38),(3,7,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,15),(3,7,22),(5,12,38)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,54),(2,5,15),(5,12,38)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,9),(1,3,8),(2,5,15),(2,5,16)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,8),(2,5,15),(3,8,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,16),(2,5,15),(3,8,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,9),(1,3,8),(3,8,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,16),(1,3,9),(3,8,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,17),(2,5,16),(3,7,24)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,9),(2,5,17),(2,5,16)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,18),(2,5,17),(3,7,24)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,9),(1,3,7)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,5,18),(1,3,9),(2,5,17)); lvl=1; h,r-ind=1,1
```

18.16 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,7,18)); lvl=0; h,r-ind=18,162
  [7,3]((1,4,9),(1,4,6),(3,10,25),(5,16,40),(1,3,7),(2,7,11),(1,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,7),(5,16,40),(4,13,32)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,25),(5,16,40),(4,13,32)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,17),(3,10,24),(3,10,25),(4,13,32)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,32),(3,10,24),(6,20,49)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,17),(3,10,24),(6,20,49)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,25),(2,7,17),(6,20,49)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,25),(4,13,32),(6,20,49)); lvl=3; h,r-ind=1,1
    [4,3]((3,10,24),(1,3,7),(4,13,30),(4,13,32)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,13,31),(4,13,30),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,32),(4,13,31),(1,3,7)); lvl=3; h,r-ind=1,1
```

```
  [3,3]((3,10,24),(4,13,32),(4,13,31)); lvl=3; h,r-ind=1,1
  [3,3]((3,10,24),(4,13,31),(4,13,30)); lvl=3; h,r-ind=1,1
[4,3]((1,3,7),(8,25,54),(4,13,28),(4,13,30)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
  [3,3]((6,19,42),(4,13,28),(4,13,29)); lvl=3; h,r-ind=2,2; optimized-h
  [4,3]((4,13,30),(1,3,7),(6,19,42),(4,13,29)); lvl=3; h,r-ind=1,2
    [3,3]((1,3,7),(6,19,42),(5,16,36)); lvl=4; h,r-ind=1,1
    [3,3]((4,13,29),(6,19,42),(5,16,36)); lvl=4; h,r-ind=1,1
    [3,3]((4,13,30),(4,13,29),(5,16,36)); lvl=4; h,r-ind=1,1
    [3,3]((4,13,30),(1,3,7),(5,16,36)); lvl=4; h,r-ind=1,1
  [3,3]((6,19,42),(6,19,41),(4,13,28)); lvl=3; h,r-ind=2,2; optimized-h
  [4,3]((1,3,7),(6,19,42),(8,25,54),(6,19,41)); lvl=3; h,r-ind=1,2
    [3,3]((7,22,48),(6,19,41),(6,19,42)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,7),(7,22,48),(6,19,42)); lvl=4; h,r-ind=1,1
    [3,3]((8,25,54),(7,22,48),(6,19,41)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,7),(8,25,54),(7,22,48)); lvl=4; h,r-ind=1,1
[3,3]((1,3,7),(1,3,6),(8,25,54)); lvl=2; h,r-ind=1,1
[5,3]((2,7,12),(2,7,14),(1,3,6),(8,25,54),(4,13,28)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc
  [5,3]((5,16,33),(6,19,40),(6,19,41),(4,13,28),(3,10,21)); lvl=3; h,r-ind=1,1
    [3,3]((6,19,41),(5,16,34),(6,19,40)); lvl=4; h,r-ind=1,1
    [3,3]((5,16,33),(5,16,34),(6,19,40)); lvl=4; h,r-ind=1,1
    [3,3]((5,16,33),(4,13,27),(5,16,34)); lvl=4; h,r-ind=1,1
    [3,3]((4,13,27),(3,10,21),(5,16,34)); lvl=4; h,r-ind=1,1
    [3,3]((4,13,28),(6,19,41),(5,16,34)); lvl=4; h,r-ind=1,1
    [3,3]((3,10,21),(4,13,28),(5,16,34)); lvl=4; h,r-ind=1,1
  [5,3]((2,7,13),(4,13,26),(2,7,14),(5,16,33),(3,10,21)); lvl=3; h,r-ind=1,1
    [3,3]((4,13,27),(5,16,33),(3,10,20)); lvl=4; h,r-ind=1,1
    [3,3]((4,13,26),(5,16,33),(3,10,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,13),(4,13,26),(3,10,20)); lvl=4; h,r-ind=1,1
    [3,3]((3,10,21),(4,13,27),(3,10,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,14),(3,10,21),(3,10,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,13),(2,7,14),(3,10,20)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,6),(5,16,33),(6,19,40)); lvl=3; h,r-ind=1,1
  [3,3]((4,13,26),(1,3,6),(5,16,33)); lvl=3; h,r-ind=1,1
  [4,3]((2,7,12),(2,7,13),(4,13,26),(1,3,6)); lvl=3; h,r-ind=1,2
    [3,3]((2,7,13),(4,13,26),(3,10,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(4,13,26),(3,10,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,12),(2,7,13),(3,10,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(2,7,12),(3,10,19)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,6),(6,19,40),(8,25,54),(6,19,41)); lvl=3; h,r-ind=1,2
    [3,3]((6,19,40),(7,22,47),(6,19,41)); lvl=4; h,r-ind=1,1
    [3,3]((8,25,54),(7,22,47),(6,19,41)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(6,19,40),(7,22,47)); lvl=4; h,r-ind=1,1
    [3,3]((8,25,54),(1,3,6),(7,22,47)); lvl=4; h,r-ind=1,1
[3,3]((2,7,12),(2,7,11),(1,3,6)); lvl=2; h,r-ind=1,1
[3,3]((1,4,6),(2,7,12),(2,7,11)); lvl=2; h,r-ind=1,1
[7,3]((1,4,9),(2,7,14),(2,8,15),(2,7,17),(3,10,24),(4,13,28),(4,13,30)); lvl=2; h,r-ind=1,1
  [5,3]((5,17,36),(4,14,29),(5,17,38),(1,4,8),(4,14,31)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((2,7,15),(4,14,31),(1,4,8)); lvl=4; h,r-ind=1,1
    [3,3]((4,14,29),(2,7,15),(1,4,8)); lvl=4; h,r-ind=1,1
    [3,3]((5,17,36),(4,14,29),(2,7,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,15),(5,17,38),(4,14,31)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,15),(5,17,38),(5,17,37)); lvl=4; h,r-ind=1,1
    [3,3]((5,17,36),(2,7,15),(5,17,37)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,9),(2,7,16),(1,4,8),(4,14,31)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,24),(2,7,16),(4,14,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(3,11,24),(4,14,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,9),(3,11,24),(2,7,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(1,4,9),(3,11,24)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,9),(2,7,16),(2,7,17)); lvl=3; h,r-ind=1,1
  [4,3]((2,7,16),(5,17,39),(5,17,38),(4,14,31)); lvl=3; h,r-ind=1,1
    [3,3]((7,24,54),(5,17,38),(5,17,39)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,16),(7,24,54),(5,17,39)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,16),(4,14,31),(7,24,54)); lvl=4; h,r-ind=1,1
    [3,3]((4,14,31),(7,24,54),(5,17,38)); lvl=4; h,r-ind=1,1
  [4,3]((2,7,16),(5,17,39),(5,17,40),(2,7,17)); lvl=3; h,r-ind=1,1
    [3,3]((7,24,56),(5,17,40),(5,17,39)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,16),(7,24,56),(5,17,39)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,17),(2,7,16),(7,24,56)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,17),(7,24,56),(5,17,40)); lvl=4; h,r-ind=1,1
  [4,3]((5,17,39),(5,17,40),(3,10,23),(3,10,24)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,23),(3,10,24),(8,27,63)); lvl=4; h,r-ind=1,1
    [3,3]((5,17,40),(3,10,24),(8,27,63)); lvl=4; h,r-ind=1,1
    [3,3]((5,17,39),(3,10,23),(8,27,63)); lvl=4; h,r-ind=1,1
    [3,3]((5,17,40),(5,17,39),(8,27,63)); lvl=4; h,r-ind=1,1
  [3,3]((3,10,23),(4,13,30),(3,10,24)); lvl=3; h,r-ind=1,1
  [3,3]((5,17,40),(2,7,17),(3,10,24)); lvl=3; h,r-ind=1,1
  [6,3]((4,13,28),(4,13,29),(3,10,21),(5,17,36),(5,17,38),(6,20,45)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,22),(6,20,45),(4,13,29)); lvl=4; h,r-ind=1,1
    [3,3]((4,13,28),(3,10,22),(4,13,29)); lvl=4; h,r-ind=1,1
    [3,3]((4,13,28),(3,10,22),(3,10,21)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((3,10,22),(3,10,21),(5,17,36)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,22),(6,20,45),(5,17,38)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,22),(5,17,38),(5,17,37)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,22),(5,17,36),(5,17,37)); lvl=4; h,r-ind=1,1
      [4,3]((3,10,23),(4,13,30),(4,13,29),(6,20,45)); lvl=3; h,r-ind=1,1
        [3,3]((7,23,52),(4,13,29),(4,13,30)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,23),(7,23,52),(4,13,30)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,23),(6,20,45),(7,23,52)); lvl=4; h,r-ind=1,1
        [3,3]((6,20,45),(7,23,52),(4,13,29)); lvl=4; h,r-ind=1,1
      [4,3]((5,17,39),(3,10,23),(5,17,38),(6,20,45)); lvl=3; h,r-ind=1,1
        [3,3]((8,27,61),(6,20,45),(3,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((5,17,39),(8,27,61),(3,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((8,27,61),(5,17,38),(6,20,45)); lvl=4; h,r-ind=1,1
        [3,3]((5,17,39),(8,27,61),(5,17,38)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,14),(4,14,29),(2,8,15),(1,4,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,22),(1,4,8),(2,8,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,14),(3,11,22),(2,8,15)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,29),(3,11,22),(1,4,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,14),(4,14,29),(3,11,22)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,14),(3,10,21),(5,17,36),(4,14,29)); lvl=3; h,r-ind=1,1
        [3,3]((7,24,50),(5,17,36),(3,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,14),(7,24,50),(3,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,29),(7,24,50),(5,17,36)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,14),(4,14,29),(7,24,50)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,6),(2,7,12),(2,7,14),(2,8,15)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,7),(2,7,14),(2,7,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,6),(1,4,7),(2,7,12),(2,7,13)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,12),(2,7,13),(3,11,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,7,13),(3,11,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(2,7,12),(3,11,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(1,4,6),(3,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,8,15),(2,7,14)); lvl=3; h,r-ind=1,1
  [5,3]((1,2,4),(1,2,3),(2,7,9),(2,7,11),(1,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,6),(1,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,9),(1,3,4),(1,3,5),(2,7,10)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,14),(1,3,5),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(3,10,14),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(3,10,14),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(2,7,10),(3,10,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,7,10),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,5),(2,7,11)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,7),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,2),(2,3,7),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,3,7)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(1,2,3),(2,7,9)); lvl=1; h,r-ind=3,3
    [4,3]((1,1,1),(2,5,5),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,4),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,7,9),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(1,2,2),(3,7,9),(1,2,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,2),(3,7,9),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(3,7,9),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,1,1),(2,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,5),(1,3,4)); lvl=2; h,r-ind=3,9; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,7,9),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,5,5)); lvl=2; h,r-ind=3,3; optimized-h
  [4,3]((0,1,0),(1,4,6),(2,7,9),(2,7,11)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,10),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(1,4,5),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,6),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,9),(2,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(2,7,9)); lvl=2; h,r-ind=1,1
  [5,3]((2,3,7),(1,2,5),(1,2,4),(1,3,7),(1,3,6)); lvl=1; h,r-ind=1,1
    [5,3]((3,7,16),(4,9,20),(1,3,7),(1,3,6),(3,7,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,11),(1,3,6),(3,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,20),(2,5,11),(3,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,16),(4,9,20),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(1,3,7),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,16),(2,5,11),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,6),(3,7,15)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,9),(4,9,20),(1,2,4),(3,7,15)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,15),(4,9,20),(5,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(4,9,20),(5,11,24)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,2,4),(2,4,9),(5,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,15),(5,11,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(2,4,9),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(3,7,16),(1,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(2,4,9),(3,7,16),(4,9,20)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,9),(4,9,20),(5,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,16),(4,9,20),(5,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,9),(5,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,16),(1,2,5),(5,11,25)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(1,2,5),(2,4,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,7),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,18),(1,0,0),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,18),(1,4,9),(3,10,25)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,4,9),(0,1,0),(1,4,6)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,7,18),(3,10,25),(5,16,40)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,5),(5,16,40),(1,3,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,7,18),(1,2,5),(5,16,40)); lvl=1; h,r-ind=3,3; optimized-h
```

18.17 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,9,18)); lvl=0; h,r-ind=18,18
  [5,3]((1,4,8),(1,5,9),(1,5,5),(1,4,5),(2,9,9)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,5),(2,9,9),(2,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,9,9),(2,9,10)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,13),(2,9,13),(1,4,5),(2,9,10)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((1,4,6),(1,4,5),(2,9,10),(4,18,23)); lvl=3; h,r-ind=1,1
        [4,3]((4,17,22),(1,4,5),(2,9,11),(2,9,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,11),(2,9,10),(3,13,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(2,9,10),(3,13,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,17,22),(2,9,11),(3,13,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(4,17,22),(3,13,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(4,17,22),(2,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,23),(1,4,6),(2,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(4,17,22),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,9,13),(4,18,23)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((2,8,13),(1,4,6),(2,9,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,7),(2,9,13),(1,5,5),(2,9,10)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,6),(1,5,5),(4,18,23),(2,9,10)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,5),(2,9,11),(2,9,10),(4,19,22)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,10),(3,14,16),(2,9,11)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,22),(3,14,16),(2,9,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(2,9,10),(3,14,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,22),(1,5,5),(3,14,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(1,5,5),(4,19,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,9,11),(4,19,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,9,11),(4,18,23)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,7),(1,5,6),(2,9,13),(4,18,23)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,6),(4,18,23),(2,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(4,19,25),(2,9,12)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,7),(4,19,25),(2,9,13),(2,9,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,13),(3,14,19),(2,9,12)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,25),(3,14,19),(2,9,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(2,9,13),(3,14,19)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,25),(1,5,7),(3,14,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(1,5,6),(4,19,25)); lvl=4; h,r-ind=1,1
    [5,3]((1,4,8),(2,8,13),(1,5,9),(1,5,7),(2,9,13)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,8),(1,4,7),(1,5,9),(1,5,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,9),(1,5,8),(2,9,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(1,5,8),(2,9,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(1,4,7),(2,9,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(1,5,9),(2,9,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,7),(4,18,27),(1,5,7),(1,5,8)); lvl=3; h,r-ind=1,1
        [3,3]((2,9,14),(4,18,27),(1,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(2,9,14),(1,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(1,5,8),(2,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,9,14),(4,18,27)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,27),(2,9,13),(1,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,7),(4,18,27),(2,8,13),(2,9,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,20),(2,9,13),(4,18,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(3,13,20),(4,18,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,13),(3,13,20),(2,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,8,13),(3,13,20)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,0),(2,5,10),(1,4,5),(2,9,9)); lvl=1; h,r-ind=3,1
    [4,3]((1,3,5),(2,6,9),(2,7,9),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,6,9),(2,7,9),(3,10,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,9),(3,10,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,6,9),(3,10,14)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,4,5),(1,3,5),(3,10,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,4),(2,9,9),(2,7,9),(1,4,5)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,9),(2,8,9),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(2,8,9),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,7,9),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,9,9),(2,8,9)); lvl=3; h,r-ind=1,1
    [5,3]((1,4,4),(2,5,5),(2,6,9),(2,7,9),(4,10,15)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(4,10,13),(2,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(4,10,15),(3,8,12),(2,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((3,8,12),(4,10,15),(5,13,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,7),(4,10,15),(5,13,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,12),(5,13,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,7),(1,3,4),(5,13,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(3,8,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(1,3,3),(2,5,5),(4,10,13)); lvl=3; h,r-ind=1,1
        [4,3]((2,5,6),(1,3,3),(2,5,5),(4,11,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,3,3),(2,5,5),(3,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,6),(2,5,5),(3,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,13),(1,3,3),(3,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,6),(4,11,13),(3,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,6),(4,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,6),(4,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,3,3),(4,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,4),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,4),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(2,7,9)); lvl=3; h,r-ind=1,1
    [5,3]((1,0,0),(2,3,6),(2,5,5),(4,10,15),(2,4,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,7),(3,7,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(4,10,15),(2,5,7),(3,7,11)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,7),(4,10,15),(5,12,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,11),(4,10,15),(5,12,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,5,7),(5,12,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,11),(1,2,3),(5,12,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(4,10,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(1,2,2),(2,5,5),(4,10,13)); lvl=3; h,r-ind=1,1
        [4,3]((4,9,11),(1,2,2),(2,5,6),(2,5,5)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,7,8),(2,5,6),(2,5,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(3,7,8),(2,5,5)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,11),(3,7,8),(2,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(4,9,11),(3,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(4,9,11),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,13),(1,2,3),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(4,9,11),(1,2,2)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,2),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,6),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(2,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,2),(1,2,3),(2,3,3)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,3),(1,1,2),(3,4,6)); lvl=4; h,r-ind=1,1
        [4,3]((1,0,0),(1,1,1),(1,1,2),(3,4,6)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,2,3),(1,1,1),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(1,1,2),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,3),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(1,1,1),(1,2,3)); lvl=4; h,r-ind=1,1
    [5,3]((1,2,4),(1,3,5),(2,6,9),(4,10,15),(2,4,7)); lvl=2; h,r-ind=1,1
      [4,3]((4,10,15),(3,7,11),(2,5,8),(3,8,12)); lvl=3; h,r-ind=1,1
        [3,3]((6,15,23),(3,7,11),(2,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,12),(6,15,23),(2,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,15),(3,8,12),(6,15,23)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,15),(6,15,23),(3,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(2,5,8),(3,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,6,9),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(3,7,11),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,7),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,4),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,10),(1,2,4),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,4),(2,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,5),(2,9,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,9,9)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((2,5,10),(1,4,8),(1,4,5)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((1,4,8),(2,9,18),(1,5,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,9),(1,5,5)); lvl=1; h,r-ind=4,4; optimized-h
```

18.18 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,11,18)); lvl=0; h,r-ind=18,162
```

```
[4,3]((1,5,8),(2,7,11),(2,5,8),(3,13,21)); lvl=1; h,r-ind=1,1
  [3,3]((3,10,16),(2,5,8),(2,7,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,8),(3,10,16),(2,7,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,8),(3,13,21),(3,10,16)); lvl=2; h,r-ind=1,1
  [3,3]((3,13,21),(3,10,16),(2,5,8)); lvl=2; h,r-ind=1,1
[4,3]((2,11,18),(1,0,0),(2,5,8),(3,13,21)); lvl=1; h,r-ind=1,2
  [3,3]((1,0,0),(2,8,13),(2,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((3,13,21),(2,8,13),(2,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,11,18),(3,13,21),(2,8,13)); lvl=2; h,r-ind=1,1
  [3,3]((2,11,18),(1,0,0),(2,8,13)); lvl=2; h,r-ind=1,1
[3,3]((2,11,18),(1,5,8),(3,13,21)); lvl=1; h,r-ind=1,1
[3,3]((1,4,6),(1,5,8),(2,7,11)); lvl=1; h,r-ind=1,1
[5,3]((2,9,13),(2,9,9),(1,4,6),(1,4,4),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,5),(1,3,4),(1,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,13),(1,4,5),(1,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,13),(1,4,5),(2,9,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,4,5),(1,4,4),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,5),(2,9,9),(1,4,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,5),(2,9,11),(2,9,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,0,0),(1,4,4),(1,3,4)); lvl=1; h,r-ind=4,4; optimized-h
[3,3]((0,1,0),(1,0,0),(1,4,4)); lvl=1; h,r-ind=4,4; optimized-h
[3,3]((0,1,0),(2,9,9),(1,4,4)); lvl=1; h,r-ind=1,1
[3,3]((2,9,13),(1,4,6),(1,5,8)); lvl=1; h,r-ind=1,1
[5,3]((0,1,0),(2,9,13),(2,9,9),(1,6,9),(1,5,8)); lvl=1; h,r-ind=1,1
  [4,3]((1,5,5),(1,5,6),(2,9,9),(2,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(4,19,21),(2,9,10),(2,9,11)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,14,16),(4,19,21),(2,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,11),(3,14,16),(2,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,9,11),(3,14,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(3,14,16),(4,19,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,5),(1,5,6),(4,19,21)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,5),(4,19,21),(2,9,9),(2,9,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,9),(3,14,15),(2,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,21),(3,14,15),(2,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(4,19,21),(3,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(2,9,9),(3,14,15)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,6),(1,5,7),(2,9,13),(2,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,7),(4,19,25),(2,9,12),(2,9,13)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,14,19),(4,19,25),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,13),(3,14,19),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(2,9,13),(3,14,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(3,14,19),(4,19,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(1,5,7),(4,19,25)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,11),(1,5,6),(4,19,25),(2,9,12)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,14,18),(4,19,25),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,11),(3,14,18),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,18),(2,9,12),(4,19,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,11),(3,14,18),(2,9,12)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,7),(1,5,8),(2,9,13)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,7),(2,11,16),(2,11,15),(1,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,15),(2,11,16),(3,16,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(2,11,16),(3,16,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(1,5,8),(3,16,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(2,11,15),(3,16,23)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,9),(2,11,16),(1,5,8)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,5,5),(1,5,6),(2,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(1,6,6),(1,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,6),(1,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,12,13),(1,5,6),(1,6,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,12,13),(1,6,6)); lvl=3; h,r-ind=1,1
  [5,3]((1,5,6),(1,5,7),(2,11,15),(1,6,7),(2,12,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,7),(2,11,14),(4,22,27),(3,16,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(4,22,27),(5,27,34)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,20),(4,22,27),(5,27,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,14),(5,27,34)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,20),(1,5,7),(5,27,34)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,6),(3,17,20),(4,22,27),(3,16,20)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,13),(9,49,60),(3,17,20),(4,22,27)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((6,33,40),(9,49,60),(4,22,27)); lvl=5; h,r-ind=1,1
        [3,3]((3,17,20),(6,33,40),(4,22,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,13),(3,17,20),(6,33,40)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,13),(6,33,40),(9,49,60)); lvl=5; h,r-ind=1,1
      [3,3]((3,16,20),(9,49,60),(4,22,27)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,6),(2,11,13),(3,16,20),(9,49,60)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,27,33),(9,49,60),(2,11,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(5,27,33),(2,11,13)); lvl=5; h,r-ind=1,1
        [3,3]((5,27,33),(3,16,20),(9,49,60)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(5,27,33),(3,16,20)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,6),(3,17,20),(2,12,13)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,5,6),(1,5,7),(3,16,20)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,11,15),(1,5,7),(2,11,14)); lvl=3; h,r-ind=1,1
      [4,3]((3,17,20),(1,6,7),(2,11,14),(4,22,27)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,7),(2,11,14),(5,28,34)); lvl=4; h,r-ind=1,1
        [3,3]((4,22,27),(2,11,14),(5,28,34)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,20),(1,6,7),(5,28,34)); lvl=4; h,r-ind=1,1
        [3,3]((4,22,27),(3,17,20),(5,28,34)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,20),(2,12,13),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,15),(1,6,7),(2,11,14)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,7),(2,12,13)); lvl=2; h,r-ind=1,1
    [5,3]((0,1,0),(1,6,9),(2,11,16),(2,11,15),(1,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,16),(1,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,8),(1,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,15),(2,11,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(1,6,7),(2,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,8),(1,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(2,9,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,11,18),(1,6,9),(1,5,8)); lvl=1; h,r-ind=1,1
  [5,3]((1,4,6),(1,0,0),(1,3,4),(2,7,11),(2,5,8)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(1,0,0),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(1,2,3),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,11),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,11),(1,2,3),(2,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,8),(1,0,0)); lvl=2; h,r-ind=1,1
```

18.19 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,13,18)); lvl=0; h,r-ind=18,162
  [5,3]((3,11,15),(2,9,12),(1,3,4),(2,11,15),(5,27,37)); lvl=1; h,r-ind=1,1
    [6,3]((4,19,26),(5,22,30),(6,30,41),(9,44,60),(10,47,64),(8,36,49)); lvl=2; h,r-ind=1,1
      [3,3]((7,33,45),(8,36,49),(5,22,30)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,26),(7,33,45),(5,22,30)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,26),(7,33,45),(6,30,41)); lvl=3; h,r-ind=1,1
      [3,3]((7,33,45),(8,36,49),(10,47,64)); lvl=3; h,r-ind=1,1
      [3,3]((7,33,45),(9,44,60),(10,47,64)); lvl=3; h,r-ind=1,1
      [3,3]((7,33,45),(6,30,41),(9,44,60)); lvl=3; h,r-ind=1,1
    [4,3]((3,14,19),(1,3,4),(10,47,64),(8,36,49)); lvl=2; h,r-ind=1,1
      [3,3]((11,50,68),(8,36,49),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,19),(11,50,68),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((10,47,64),(11,50,68),(8,36,49)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,19),(10,47,64),(11,50,68)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(3,14,19),(1,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(3,11,15),(5,22,30),(8,36,49)); lvl=2; h,r-ind=1,1
      [3,3]((6,25,34),(3,11,15),(5,22,30)); lvl=3; h,r-ind=1,1
      [3,3]((8,36,49),(6,25,34),(5,22,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(8,36,49),(6,25,34)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(6,25,34),(3,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((5,27,37),(4,19,26),(6,30,41)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,15),(4,19,26),(5,22,30)); lvl=2; h,r-ind=1,1
    [4,3]((2,11,15),(5,27,37),(6,30,41),(9,44,60)); lvl=2; h,r-ind=1,1
      [3,3]((8,41,56),(5,27,37),(6,30,41)); lvl=3; h,r-ind=1,1
      [3,3]((9,44,60),(8,41,56),(6,30,41)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,15),(9,44,60),(8,41,56)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,15),(8,41,56),(5,27,37)); lvl=3; h,r-ind=1,1
    [4,3]((3,14,19),(2,11,15),(9,44,60),(10,47,64)); lvl=2; h,r-ind=1,1
      [3,3]((9,44,60),(2,11,15),(12,58,79)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,19),(2,11,15),(12,58,79)); lvl=3; h,r-ind=1,1
      [3,3]((10,47,64),(3,14,19),(12,58,79)); lvl=3; h,r-ind=1,1
      [3,3]((10,47,64),(9,44,60),(12,58,79)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(3,14,19),(2,11,15)); lvl=2; h,r-ind=1,1
  [3,3]((2,13,18),(2,11,15),(5,27,37)); lvl=1; h,r-ind=1,1
  [4,3]((2,13,18),(1,0,0),(3,11,15),(5,27,37)); lvl=1; h,r-ind=1,1
    [4,3]((2,8,11),(5,24,33),(3,11,15),(4,19,26)); lvl=2; h,r-ind=1,1
      [3,3]((4,19,26),(5,24,33),(6,27,37)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(5,24,33),(6,27,37)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(3,11,15),(6,27,37)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,15),(4,19,26),(6,27,37)); lvl=3; h,r-ind=1,1
    [4,3]((5,27,37),(5,24,33),(3,16,22),(4,19,26)); lvl=2; h,r-ind=1,1
      [3,3]((3,16,22),(5,24,33),(7,35,48)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,26),(5,24,33),(7,35,48)); lvl=3; h,r-ind=1,1
      [3,3]((5,27,37),(3,16,22),(7,35,48)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,26),(5,27,37),(7,35,48)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,18),(5,24,33),(3,16,22)); lvl=2; h,r-ind=1,1
    [3,3]((5,27,37),(2,13,18),(3,16,22)); lvl=2; h,r-ind=1,1
    [3,3]((2,13,18),(2,8,11),(5,24,33)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,8,11),(3,11,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,13,18),(1,0,0),(2,8,11)); lvl=2; h,r-ind=1,1
  [5,3]((1,5,6),(1,6,8),(2,9,12),(1,4,5),(2,11,15)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((1,4,5),(4,19,25),(2,9,12)); lvl=2; h,r-ind=1,1
    [5,3]((2,11,15),(5,25,33),(4,21,28),(4,19,25),(2,9,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,21,28),(2,11,15),(3,15,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,12),(2,11,15),(3,15,20)); lvl=3; h,r-ind=1,1
      [3,3]((5,25,33),(4,21,28),(3,15,20)); lvl=3; h,r-ind=1,1
      [3,3]((5,25,33),(4,19,25),(3,15,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,12),(4,19,25),(3,15,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(2,11,15),(4,21,28)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,8),(2,10,13),(5,25,33),(4,21,28)); lvl=2; h,r-ind=1,1
      [3,3]((2,10,13),(5,25,33),(6,31,41)); lvl=3; h,r-ind=1,1
      [3,3]((4,21,28),(5,25,33),(6,31,41)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(2,10,13),(6,31,41)); lvl=3; h,r-ind=1,1
      [3,3]((4,21,28),(1,6,8),(6,31,41)); lvl=3; h,r-ind=1,1
    [4,3]((2,10,13),(5,25,33),(1,4,5),(4,19,25)); lvl=2; h,r-ind=1,1
      [3,3]((4,19,25),(5,25,33),(6,29,38)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,13),(5,25,33),(6,29,38)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,10,13),(6,29,38)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(4,19,25),(6,29,38)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(2,10,13),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,8),(1,5,6),(2,10,13)); lvl=2; h,r-ind=1,1
  [3,3]((2,13,18),(1,6,8),(2,11,15)); lvl=1; h,r-ind=1,1
  [5,3]((1,5,6),(2,9,9),(1,4,5),(2,6,7),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,9),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(2,8,9),(4,17,20),(1,4,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,13,15),(2,8,9),(4,17,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(3,13,15),(4,17,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,5,6),(3,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(3,13,15),(2,8,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,8,9),(1,3,3),(2,7,8),(1,4,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,8),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(2,7,8),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,8,9),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(3,11,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(2,7,8),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,8),(2,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,9),(4,17,20),(1,4,5),(2,7,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,17,20),(3,12,14),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,12,14),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(2,7,8),(3,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(4,17,20),(3,12,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(4,17,20),(1,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,6,7),(2,4,5),(1,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,3),(2,3,3),(2,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(2,5,6),(5,13,15)); lvl=3; h,r-ind=1,1
      [4,3]((2,6,7),(1,3,3),(1,2,2),(5,13,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,2),(3,8,9),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(3,8,9),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,15),(2,6,7),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,15),(1,2,2),(3,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(2,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(2,5,6),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,5,6),(5,10,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,4,5),(1,1,1),(5,10,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,6),(2,4,5),(5,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,5,6),(5,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,5,6),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(2,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(2,9,9),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((0,1,0),(1,7,9),(1,5,6),(2,9,9),(1,6,8)); lvl=1; h,r-ind=1,1
    [3,3]((1,6,8),(1,7,9),(2,13,16)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(2,13,13),(1,7,9),(2,13,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [4,3]((2,14,15),(1,7,8),(4,26,29),(2,13,16)); lvl=3; h,r-ind=1,1
        [4,3]((1,7,8),(7,47,53),(2,13,15),(2,13,16)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((3,20,23),(7,47,53),(2,13,15)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,16),(3,20,23),(2,13,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(2,13,16),(3,20,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(3,20,23),(7,47,53)); lvl=5; h,r-ind=1,1
        [4,3]((2,14,15),(4,27,30),(1,7,8),(7,47,53)); lvl=4; h,r-ind=1,1
          [3,3]((4,27,30),(7,47,53),(5,34,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(7,47,53),(5,34,38)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,15),(4,27,30),(5,34,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(2,14,15),(5,34,38)); lvl=5; h,r-ind=1,1
        [4,3]((3,20,22),(4,27,30),(7,47,53),(2,13,15)); lvl=4; h,r-ind=1,1
          [3,3]((4,27,30),(6,40,45),(7,47,53)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,15),(6,40,45),(7,47,53)); lvl=5; h,r-ind=1,1
          [3,3]((3,20,22),(4,27,30),(6,40,45)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((2,13,15),(3,20,22),(6,40,45)); lvl=5; h,r-ind=1,1
        [3,3]((3,20,22),(4,26,29),(2,13,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,15),(3,20,22),(4,27,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(1,7,8),(2,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,9),(1,7,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,7),(2,14,15),(2,13,13),(4,26,29)); lvl=3; h,r-ind=1,1
        [3,3]((2,13,14),(3,20,22),(4,26,29)); lvl=4; h,r-ind=1,1
        [4,3]((7,47,50),(4,27,29),(2,13,14),(3,20,22)); lvl=4; h,r-ind=1,1
          [3,3]((6,40,43),(4,27,29),(3,20,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,14),(6,40,43),(3,20,22)); lvl=5; h,r-ind=1,1
          [3,3]((7,47,50),(6,40,43),(4,27,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,14),(7,47,50),(6,40,43)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,15),(4,27,29),(3,20,22)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,7),(7,47,50),(2,13,13),(2,13,14)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,13,14),(2,13,13),(3,20,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(2,13,13),(3,20,21)); lvl=5; h,r-ind=1,1
          [3,3]((7,47,50),(2,13,14),(3,20,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(7,47,50),(3,20,21)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,7),(2,14,15),(7,47,50),(4,27,29)); lvl=4; h,r-ind=1,1
          [3,3]((2,14,15),(4,27,29),(5,34,36)); lvl=5; h,r-ind=1,1
          [3,3]((7,47,50),(4,27,29),(5,34,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(7,47,50),(5,34,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(2,14,15),(5,34,36)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(2,13,13)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(2,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,14,15),(1,7,8)); lvl=3; h,r-ind=1,1
    [6,3]((2,13,13),(1,6,8),(1,6,6),(2,11,12),(2,11,13),(2,13,16)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,12),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,13),(1,6,7),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,13),(4,26,29),(1,6,7)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((4,26,29),(2,13,16),(1,6,7)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,6,7),(2,11,12),(2,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(1,6,7),(2,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,16),(1,6,8),(1,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,13,13),(1,6,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,5),(1,6,6),(2,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,8),(1,5,6),(2,11,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,5),(2,11,12),(1,5,6),(2,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,12),(2,11,13),(3,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,11,13),(3,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(2,11,12),(3,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,5),(3,16,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,9),(1,5,5),(1,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,13,18),(1,7,9),(1,6,8)); lvl=1; h,r-ind=1,1
  [5,3]((2,9,12),(1,4,5),(2,6,7),(1,3,4),(2,4,5)); lvl=1; h,r-ind=1,1
    [6,3]((5,15,19),(3,9,11),(6,19,24),(5,16,20),(2,5,6),(3,8,10)); lvl=2; h,r-ind=1,1
      [3,3]((4,12,15),(6,19,24),(5,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(4,12,15),(5,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,8,10),(4,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,11),(2,5,6),(4,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,20),(4,12,15),(6,19,24)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,11),(5,16,20),(4,12,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(3,8,10)); lvl=2; h,r-ind=1,1
    [4,3]((5,15,19),(1,3,4),(2,4,5),(3,8,10)); lvl=2; h,r-ind=1,1
      [3,3]((4,11,14),(1,3,4),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,14),(3,8,10),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,15,19),(4,11,14),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,15,19),(4,11,14),(1,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,9),(5,15,19),(6,19,24),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((5,15,19),(6,19,24),(7,22,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(6,19,24),(7,22,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(7,22,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,15,19),(7,22,28)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(2,7,9),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,11),(2,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(3,9,11),(5,16,20),(2,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,16,20),(4,13,16),(3,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(4,13,16),(3,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,6,7),(4,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(5,16,20),(4,13,16)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,9),(1,4,5),(6,19,24),(5,16,20)); lvl=2; h,r-ind=1,1
      [3,3]((7,23,29),(5,16,20),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(7,23,29),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,19,24),(7,23,29),(5,16,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(6,19,24),(7,23,29)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(2,7,9),(1,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,4),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,11,15),(1,3,4)); lvl=1; h,r-ind=1,1
```

18.20 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,15,18)); lvl=0; h,r-ind=18,54
  [3,3]((2,9,9),(1,2,2),(0,1,0)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(1,2,2),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,8,9),(2,13,15),(2,9,9),(0,1,0)); lvl=1; h,r-ind=3,3
    [3,3]((2,11,12),(2,9,9),(1,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,8),(2,13,15),(2,11,12),(1,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,13,15),(2,11,12),(3,18,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(2,11,12),(3,18,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(2,13,15),(3,18,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,7,8),(3,18,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,8),(2,13,13),(1,5,5)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((0,1,0),(2,13,13),(1,5,5)); lvl=2; h,r-ind=3,3; optimized-h
    [4,3]((1,8,9),(1,7,8),(0,1,0),(2,13,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,7,7),(2,13,13),(1,7,8)); lvl=3; h,r-ind=1,1
      [4,3]((2,15,15),(2,15,16),(1,7,7),(1,7,8)); lvl=3; h,r-ind=1,1
        [3,3]((3,22,23),(1,7,8),(1,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,15),(3,22,23),(1,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,16),(3,22,23),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,15),(2,15,16),(3,22,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,9),(2,15,16),(1,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,15),(0,1,0),(1,7,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,9),(2,15,15),(2,15,16),(0,1,0)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((0,1,0),(2,15,15),(1,8,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,16),(2,15,15),(1,8,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(2,15,16),(1,8,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(0,1,0),(1,8,8)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(2,13,13)); lvl=3; h,r-ind=1,1
  [3,3]((1,8,9),(2,15,18),(2,13,15)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,5,6),(2,13,15),(2,9,9),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,11,12),(2,9,9),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,7),(2,11,12),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,7),(2,7,7),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(1,5,6),(1,6,7),(2,7,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,7),(1,5,6),(3,14,16)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(1,3,3),(1,5,6),(3,14,16)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,8,9),(3,14,16),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,8,9),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(1,5,6),(3,14,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,8,9),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,6,7),(3,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(1,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,7),(2,13,15),(2,11,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,5,6),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,15,18),(1,5,6),(2,13,15)); lvl=1; h,r-ind=3,3; optimized-h
```

18.21 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,17,18)); lvl=0; h,r-ind=18,162
  [3,3]((2,9,9),(0,1,0),(1,1,1)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,17,18),(2,9,9),(1,1,1)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,0,0),(2,17,18),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,9,9),(2,9,9),(0,1,0)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((2,17,18),(1,9,9),(2,9,9)); lvl=1; h,r-ind=9,9; optimized-h
```

18.22 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,4,18)); lvl=0; h,r-ind=18,54
  [5,3]((3,4,14),(4,5,19),(3,4,9),(2,2,5),(1,1,4)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,18),(1,1,4),(4,5,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,14),(4,5,18),(4,5,19)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,15),(4,5,18),(1,1,3),(1,1,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,4),(7,8,27)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,18),(8,10,33),(1,1,4),(7,8,27)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,1,4),(11,13,45),(5,6,20),(7,8,27)); lvl=4; h,r-ind=1,3
          [3,3]((6,7,24),(11,13,45),(5,6,20)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,27),(6,7,24),(5,6,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(7,8,27),(6,7,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(6,7,24),(11,13,45)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,17),(11,13,45),(5,6,20)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
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      [4,3]((1,1,4),(4,5,18),(4,5,17),(11,13,45)); lvl=4; h,r-ind=1,3
        [3,3]((5,6,21),(4,5,17),(4,5,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(5,6,21),(4,5,18)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,21),(11,13,45),(4,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(5,6,21),(11,13,45)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,17),(5,6,20),(8,10,33)); lvl=4; h,r-ind=1,1
    [4,3]((4,5,15),(8,10,33),(1,1,3),(7,8,27)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,1,3),(11,13,42),(5,6,20),(7,8,27)); lvl=4; h,r-ind=1,3
        [3,3]((6,7,23),(11,13,42),(5,6,20)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,27),(6,7,23),(5,6,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(7,8,27),(6,7,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(6,7,23),(11,13,42)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,16),(11,13,42),(5,6,20)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((4,5,16),(8,10,33),(5,6,20)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,3),(4,5,15),(4,5,16),(11,13,42)); lvl=4; h,r-ind=1,3
        [3,3]((5,6,19),(4,5,15),(4,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((11,13,42),(5,6,19),(4,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(11,13,42),(5,6,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(5,6,19),(4,5,15)); lvl=5; h,r-ind=1,1
  [4,3]((3,4,14),(4,5,15),(6,8,23),(4,5,18)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(4,5,15),(6,8,23)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,12),(6,8,25),(8,10,33),(4,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,29),(4,5,16),(8,10,33)); lvl=4; h,r-ind=1,1
      [4,3]((17,22,69),(10,13,41),(7,9,29),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((14,18,57),(10,13,41),(7,9,29)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,16),(14,18,57),(7,9,29)); lvl=5; h,r-ind=1,1
        [3,3]((17,22,69),(14,18,57),(10,13,41)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,16),(17,22,69),(14,18,57)); lvl=5; h,r-ind=1,1
      [4,3]((4,5,15),(3,4,12),(17,22,69),(4,5,16)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,4,12),(7,9,28),(17,22,69)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,16),(7,9,28),(17,22,69)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,15),(4,5,16),(7,9,28)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,15),(3,4,12),(7,9,28)); lvl=5; h,r-ind=1,1
      [4,3]((3,4,12),(6,8,25),(17,22,69),(10,13,41)); lvl=4; h,r-ind=1,1
        [3,3]((13,17,53),(10,13,41),(6,8,25)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,12),(13,17,53),(6,8,25)); lvl=5; h,r-ind=1,1
        [3,3]((13,17,53),(17,22,69),(10,13,41)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,12),(13,17,53),(17,22,69)); lvl=5; h,r-ind=1,1
      [3,3]((6,8,25),(10,13,41),(7,9,29)); lvl=4; h,r-ind=1,1
    [4,3]((6,8,25),(3,4,14),(4,5,18),(8,10,33)); lvl=3; h,r-ind=3,1; alert-h-inc
      [4,3]((3,4,13),(3,4,14),(4,5,18),(4,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,31),(4,5,18),(3,4,14)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,13),(7,9,31),(3,4,14)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,17),(3,4,13),(7,9,31)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,17),(7,9,31),(4,5,18)); lvl=5; h,r-ind=1,1
      [3,3]((7,9,29),(3,4,13),(4,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,29),(8,10,33),(4,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,25),(7,9,29),(3,4,13)); lvl=4; h,r-ind=1,1
  [4,3]((4,5,15),(6,8,23),(3,4,9),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,9),(6,8,21)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,1,3),(8,10,29),(3,4,11),(6,8,21)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((8,10,29),(4,5,14),(3,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,21),(4,5,14),(3,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(8,10,29),(4,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,21),(1,1,3),(4,5,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,3),(4,5,15),(8,10,29)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,15),(8,10,29),(3,4,11),(6,8,23)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((8,10,29),(7,9,26),(3,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,23),(7,9,26),(3,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,15),(6,8,23),(7,9,26)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,15),(8,10,29),(7,9,26)); lvl=4; h,r-ind=1,1
  [3,3]((2,2,5),(3,4,9),(1,1,3)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(2,2,5),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
[4,3]((9,11,45),(4,5,20),(4,5,19),(1,1,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,24),(4,5,20),(4,5,19)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,4),(5,6,24),(4,5,19)); lvl=2; h,r-ind=1,1
  [3,3]((9,11,45),(5,6,24),(4,5,20)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,4),(9,11,45),(5,6,24)); lvl=2; h,r-ind=1,1
[4,3]((3,4,18),(9,11,45),(2,2,9),(1,1,4)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,9),(5,6,26),(1,1,4)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,21),(5,6,26),(1,1,4)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,21),(9,11,45),(1,1,4)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,18),(4,5,21),(5,6,26)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((3,4,18),(2,2,9),(5,6,26)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,0,0),(2,2,9),(1,1,4)); lvl=1; h,r-ind=1,1
[4,3]((3,4,18),(3,4,16),(9,11,45),(4,5,20)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,16),(7,9,37),(15,19,78),(4,5,20)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,37),(15,19,78),(11,14,57)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,20),(15,19,78),(11,14,57)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,16),(7,9,37),(11,14,57)); lvl=3; h,r-ind=1,1
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      [3,3]((4,5,20),(3,4,16),(11,14,57)); lvl=3; h,r-ind=1,1
    [4,3]((9,11,45),(4,5,21),(15,19,78),(4,5,20)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((4,5,21),(8,10,41),(15,19,78)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,20),(8,10,41),(15,19,78)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,45),(4,5,20),(8,10,41)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,45),(4,5,21),(8,10,41)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,17),(3,4,16),(7,9,37)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,21),(3,4,17),(7,9,37),(15,19,78)); lvl=2; h,r-ind=1,1
      [3,3]((11,14,58),(3,4,17),(7,9,37)); lvl=3; h,r-ind=1,1
      [3,3]((15,19,78),(11,14,58),(7,9,37)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,21),(15,19,78),(11,14,58)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,21),(11,14,58),(3,4,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,18),(4,5,21),(3,4,17)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,10),(3,4,14),(3,4,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,9),(2,3,10),(3,4,14)); lvl=2; h,r-ind=1,1
    [4,3]((6,8,23),(2,3,8),(2,3,9),(3,4,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,8),(2,3,9),(9,13,38)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,14),(6,8,25),(2,3,9),(9,13,38)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,3,9),(9,13,38),(5,7,21),(12,17,52)); lvl=4; h,r-ind=1,3
          [3,3]((7,10,30),(5,7,21),(9,13,38)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,9),(7,10,30),(9,13,38)); lvl=5; h,r-ind=1,1
          [3,3]((12,17,52),(7,10,30),(5,7,21)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,9),(12,17,52),(7,10,30)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,13),(5,7,21),(12,17,52)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,4,13),(6,8,25),(5,7,21)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,14),(3,4,13),(2,3,9),(12,17,52)); lvl=4; h,r-ind=1,3
          [3,3]((3,4,13),(12,17,52),(5,7,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,9),(12,17,52),(5,7,22)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,14),(3,4,13),(5,7,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,9),(3,4,14),(5,7,22)); lvl=5; h,r-ind=1,1
      [4,3]((3,4,12),(6,8,25),(2,3,8),(9,13,38)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,8),(9,13,38),(5,7,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(10,14,41),(5,7,21)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,12),(6,8,25),(10,14,41),(5,7,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((8,11,33),(10,14,41),(5,7,21)); lvl=5; h,r-ind=1,1
          [3,3]((6,8,25),(8,11,33),(5,7,21)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,12),(6,8,25),(8,11,33)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,12),(8,11,33),(10,14,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,8),(3,4,12),(10,14,41)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,12),(6,8,23),(2,3,8)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,9),(3,5,13),(1,2,5),(2,3,10)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,14),(1,2,5),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(3,5,14),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(2,3,10),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(3,5,14),(1,2,5)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,12),(2,3,8),(2,3,9),(3,5,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,8),(2,3,9),(5,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(2,3,9),(5,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,12),(2,3,8),(5,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(3,5,12),(5,8,21)); lvl=3; h,r-ind=1,1
    [5,3]((3,4,9),(3,5,9),(6,8,23),(3,5,12),(2,3,8)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,7),(4,6,15),(6,10,21),(3,5,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,11),(7,11,26),(3,5,12)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
        [3,3]((4,6,15),(7,11,26),(3,5,12)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
        [3,3]((2,3,7),(4,6,15),(7,11,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(3,5,11),(7,11,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(6,10,21),(3,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,15),(2,3,8),(3,5,12)); lvl=3; h,r-ind=1,1
      [4,3]((6,8,23),(3,4,11),(4,6,15),(2,3,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,19),(3,4,11),(4,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(5,7,19),(4,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,23),(5,7,19),(3,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(6,8,23),(5,7,19)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,7),(6,8,21),(3,4,11),(4,6,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,18),(3,4,11),(6,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(5,7,18),(6,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(5,7,18),(3,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(4,6,15),(5,7,18)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,9),(2,3,6),(2,3,7),(6,8,21)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,6),(7,10,23),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,10),(7,10,23),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,10),(6,8,21),(2,3,7)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,9),(3,4,10),(2,3,6),(7,10,23)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,7,16),(7,10,23),(3,4,10)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,9),(5,7,16),(3,4,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,6),(3,4,9),(5,7,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,6),(5,7,16),(7,10,23)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,6),(3,5,9),(2,3,7),(6,10,21)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,7),(3,5,10),(6,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(7,11,23),(3,5,10)); lvl=4; h,r-ind=1,1
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        [4,3]((2,3,6),(7,11,23),(3,5,9),(3,5,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,9),(5,8,16),(3,5,10)); lvl=5; h,r-ind=1,1
          [3,3]((7,11,23),(5,8,16),(3,5,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,6),(7,11,23),(5,8,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,6),(3,5,9),(5,8,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,6),(2,3,7),(7,11,23)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(3,5,9),(3,5,12)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((0,1,0),(3,5,12),(3,5,13),(1,2,5)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,4),(5,9,22),(3,5,13),(3,5,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,7,17),(5,9,22),(3,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,12),(4,7,17),(3,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(3,5,12),(4,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(4,7,17),(5,9,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(5,9,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(0,1,0),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(5,9,22),(3,5,13)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,10),(3,5,18),(2,3,11)); lvl=1; h,r-ind=1,1
    [4,3]((6,10,33),(3,5,16),(2,3,10),(2,3,11)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,27),(3,5,16),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,11),(5,8,27),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,33),(2,3,11),(5,8,27)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,33),(5,8,27),(3,5,16)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,6),(3,5,18),(6,10,33),(2,3,11)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,5,17),(3,5,18),(2,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,33),(3,5,17),(2,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(6,10,33),(3,5,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(3,5,17),(3,5,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(1,2,6),(6,10,33),(3,5,16)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,22),(1,2,6),(6,10,33)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,22),(3,5,16),(6,10,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(4,7,22),(3,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(4,7,22),(1,2,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(0,1,0),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(3,5,16),(2,3,10)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,18),(3,4,16),(3,5,18),(2,3,11)); lvl=1; h,r-ind=1,1
    [4,3]((5,7,28),(9,13,51),(2,3,11),(3,4,16)); lvl=2; h,r-ind=1,1
      [3,3]((9,13,51),(2,3,11),(7,10,39)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,16),(2,3,11),(7,10,39)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,28),(9,13,51),(7,10,39)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,28),(3,4,16),(7,10,39)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,17),(5,7,28),(3,4,16)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,17),(5,7,28),(2,3,12),(9,13,51)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,28),(9,13,51),(7,10,40)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,12),(9,13,51),(7,10,40)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,17),(5,7,28),(7,10,40)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,12),(3,4,17),(7,10,40)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,18),(3,4,17),(2,3,12)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,18),(2,3,12),(9,13,51),(2,3,11)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,3,12),(4,6,23),(9,13,51)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,11),(4,6,23),(9,13,51)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,18),(2,3,11),(4,6,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,18),(2,3,12),(4,6,23)); lvl=3; h,r-ind=1,1
  [6,3]((3,4,16),(2,3,10),(2,3,11),(4,5,20),(3,4,14),(4,5,19)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,15),(4,5,20),(4,5,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,15),(3,4,14),(4,5,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,15),(2,3,10),(3,4,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,15),(2,3,11),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,16),(3,4,15),(4,5,20)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,16),(3,4,15),(2,3,11)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(3,4,9),(2,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,9),(3,5,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,2),(0,1,0),(3,5,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,3),(1,1,2),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(0,1,0)); lvl=2; h,r-ind=3,9; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,5),(1,1,2),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,5),(1,1,2)); lvl=2; h,r-ind=1,1
```

18.23 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,5,18)); lvl=0; h,r-ind=18,108
  [5,3]((1,1,3),(2,3,9),(3,5,13),(3,5,9),(1,1,2)); lvl=1; h,r-ind=1,2
    [4,3]((3,5,9),(2,3,7),(3,5,11),(2,3,6)); lvl=2; h,r-ind=1,1
      [4,3]((3,5,10),(7,11,23),(3,5,11),(2,3,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,8,17),(2,3,7),(7,11,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,10),(5,8,17),(7,11,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,11),(5,8,17),(2,3,7)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((3,5,10),(3,5,11),(5,8,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,6),(7,11,23),(2,3,7)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,9),(3,5,10),(2,3,6),(7,11,23)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,8,16),(3,5,10),(7,11,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(5,8,16),(7,11,23)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,9),(5,8,16),(3,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(3,5,9),(5,8,16)); lvl=4; h,r-ind=1,1
  [3,3]((1,1,2),(3,5,9),(2,3,6)); lvl=2; h,r-ind=1,1
  [4,3]((4,5,12),(1,1,2),(2,3,7),(2,3,6)); lvl=2; h,r-ind=1,2
    [3,3]((2,3,7),(2,3,6),(3,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(3,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,12),(2,3,7),(3,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(4,5,12),(3,4,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,3),(4,5,12),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,13),(2,3,8),(2,3,7),(3,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(2,3,8),(7,11,27)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,13),(3,5,12),(2,3,8),(7,11,27)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,12),(5,8,20),(7,11,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,8),(5,8,20),(7,11,27)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,13),(2,3,8),(5,8,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,13),(3,5,12),(5,8,20)); lvl=4; h,r-ind=1,1
    [4,3]((3,5,11),(3,5,12),(2,3,7),(7,11,27)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,12),(7,11,27),(5,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(7,11,27),(5,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,11),(3,5,12),(5,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(3,5,11),(5,8,19)); lvl=4; h,r-ind=1,1
  [3,3]((2,3,9),(3,5,13),(2,3,8)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,3),(4,5,12),(2,3,8),(2,3,7)); lvl=2; h,r-ind=1,2
    [3,3]((2,3,8),(3,4,10),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,12),(3,4,10),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(4,5,12),(3,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,8),(3,4,10)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,9),(1,1,3),(2,3,8)); lvl=2; h,r-ind=1,1
[4,3]((1,0,0),(0,1,0),(3,5,9),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,2),(1,2,3),(3,4,6),(3,5,9)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((2,3,5),(1,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,9),(2,3,5),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,5,9),(2,3,5)); lvl=3; h,r-ind=1,1
  [5,3]((2,3,3),(1,2,2),(1,2,3),(3,4,6),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,4),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(2,3,4),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(4,5,7),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,7),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,2,3),(2,3,3),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,8),(3,4,5),(4,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,3),(5,6,8),(8,9,12),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,11),(8,9,12),(5,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,7),(7,8,11),(5,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,7),(7,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(7,8,11),(8,9,12)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,1),(1,0,0),(2,2,3),(8,9,12)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,12),(2,2,3),(3,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(8,9,12),(3,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,1),(5,6,8),(8,9,12),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,9),(8,9,12),(5,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,5),(6,7,9),(5,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(6,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(6,7,9),(8,9,12)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,3,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,1,2),(2,2,3),(3,4,6),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(4,5,7),(5,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(4,5,7),(5,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,6),(5,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(5,6,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,2),(1,0,0),(2,2,3)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
[4,3]((0,1,0),(3,5,13),(1,2,5),(3,5,9)); lvl=1; h,r-ind=2,2
  [3,3]((1,2,4),(1,2,5),(3,5,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,4),(3,5,11),(3,5,13)); lvl=2; h,r-ind=2,2; optimized-h
  [4,3]((1,2,3),(3,5,9),(1,2,4),(3,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(5,9,17),(3,5,10),(3,5,11)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,9,17),(4,7,14),(3,5,10)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((3,5,11),(4,7,14),(3,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(5,9,17),(4,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,11),(1,2,4),(4,7,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(5,9,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(5,9,17),(3,5,9),(3,5,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,9),(4,7,13),(3,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,17),(4,7,13),(3,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,9),(4,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,17),(1,2,3),(4,7,13)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
[5,3]((2,3,10),(2,3,9),(3,5,13),(1,2,6),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,5),(3,5,13),(3,5,14)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,9),(3,5,13),(3,5,14)); lvl=2; h,r-ind=1,1
  [4,3]((5,8,24),(6,10,29),(2,3,9),(3,5,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,14),(6,10,29),(8,13,38)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,24),(6,10,29),(8,13,38)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(5,8,24),(8,13,38)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(3,5,14),(8,13,38)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,10),(5,8,24),(2,3,9)); lvl=2; h,r-ind=1,1
  [4,3]((4,7,20),(6,10,29),(1,2,5),(3,5,14)); lvl=2; h,r-ind=1,1
    [3,3]((6,10,29),(3,5,14),(7,12,34)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(3,5,14),(7,12,34)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,20),(1,2,5),(7,12,34)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,20),(6,10,29),(7,12,34)); lvl=3; h,r-ind=1,1
  [3,3]((4,7,20),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
  [5,3]((2,3,10),(4,7,20),(5,8,24),(6,10,29),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,15),(6,10,29),(4,7,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(3,5,15),(4,7,20)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,15),(5,8,24),(6,10,29)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(3,5,15),(5,8,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(2,3,10),(3,5,15)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,2,6),(1,2,5)); lvl=1; h,r-ind=1,1
[4,3]((3,5,18),(4,6,21),(2,3,10),(1,2,6)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,17),(8,13,45),(2,3,10),(7,11,38)); lvl=2; h,r-ind=1,1
    [3,3]((8,13,45),(7,11,38),(10,16,55)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(7,11,38),(10,16,55)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,17),(8,13,45),(10,16,55)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(3,5,17),(10,16,55)); lvl=3; h,r-ind=1,1
  [3,3]((4,6,21),(2,3,10),(7,11,38)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,18),(4,6,21),(8,13,45),(7,11,38)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((4,6,21),(5,8,28),(7,11,38)); lvl=3; h,r-ind=1,1
    [3,3]((8,13,45),(5,8,28),(7,11,38)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,18),(8,13,45),(5,8,28)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,18),(4,6,21),(5,8,28)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,6),(3,5,17),(2,3,10)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,18),(1,2,6),(3,5,17)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,18),(3,5,17),(8,13,45)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(3,5,18),(4,6,21)); lvl=1; h,r-ind=3,3; optimized-h
[5,3]((5,7,24),(2,3,10),(1,1,3),(3,3,10),(2,3,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,3),(2,3,9),(3,4,13)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,10),(2,3,9),(3,4,13)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,10),(5,7,24),(6,8,27),(9,12,40)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,24),(8,11,37),(6,8,27)); lvl=3; h,r-ind=1,1
    [3,3]((9,12,40),(8,11,37),(6,8,27)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(5,7,24),(8,11,37)); lvl=3; h,r-ind=1,1
    [3,3]((9,12,40),(2,3,10),(8,11,37)); lvl=3; h,r-ind=1,1
  [4,3]((8,10,33),(10,13,43),(1,1,3),(3,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((11,14,46),(3,4,13),(10,13,43)); lvl=3; h,r-ind=1,1
    [3,3]((8,10,33),(11,14,46),(10,13,43)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(8,10,33),(11,14,46)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(11,14,46),(3,4,13)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,10),(9,12,40),(10,13,43),(3,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((12,16,53),(10,13,43),(9,12,40)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(12,16,53),(9,12,40)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,13),(12,16,53),(10,13,43)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(3,4,13),(12,16,53)); lvl=3; h,r-ind=1,1
  [4,3]((3,3,10),(5,6,20),(8,10,33),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,20),(8,10,33),(6,7,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(8,10,33),(6,7,23)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,10),(5,6,20),(6,7,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(3,3,10),(6,7,23)); lvl=3; h,r-ind=1,1
  [3,3]((4,5,17),(3,3,10),(5,6,20)); lvl=2; h,r-ind=1,1
  [6,3]((4,5,17),(6,8,27),(9,12,40),(5,6,20),(8,10,33),(10,13,43)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,30),(10,13,43),(9,12,40)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,30),(6,8,27),(9,12,40)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,17),(7,9,30),(6,8,27)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,30),(10,13,43),(8,10,33)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,30),(5,6,20),(8,10,33)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,17),(7,9,30),(5,6,20)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((5,7,24),(4,5,17),(6,8,27)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(3,3,10)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(4,6,21),(5,7,24),(3,3,10)); lvl=1; h,r-ind=1,1
    [4,3]((4,6,21),(5,6,21),(4,5,17),(5,7,24)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,14),(5,6,21),(4,5,17)); lvl=3; h,r-ind=1,1
      [3,3]((12,16,55),(3,4,14),(4,5,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,24),(12,16,55),(4,5,17)); lvl=3; h,r-ind=1,1
      [4,3]((4,6,21),(5,7,24),(12,16,55),(3,4,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,11,38),(5,7,24),(12,16,55)); lvl=4; h,r-ind=1,1
        [3,3]((8,11,38),(3,4,14),(12,16,55)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,21),(8,11,38),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,21),(8,11,38),(5,7,24)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(3,3,10),(5,6,21),(4,5,17)); lvl=2; h,r-ind=1,1
      [3,3]((9,10,34),(4,5,17),(3,3,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,7),(9,10,34),(3,3,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,2,7),(9,10,34),(5,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,10),(9,10,34),(5,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(2,2,7),(5,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,10),(1,0,0),(5,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,7),(9,10,34),(4,5,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,21),(2,2,7),(4,5,17)); lvl=3; h,r-ind=1,1
  [3,3]((4,6,21),(5,7,24),(2,3,10)); lvl=1; h,r-ind=1,1
```

18.24 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,7,18)); lvl=0; h,r-ind=18,108
  [4,3]((1,0,0),(2,3,7),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,2),(2,3,7),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((1,2,5),(2,3,7),(1,2,4)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,8,18),(1,2,5),(1,2,4)); lvl=1; h,r-ind=1,2
    [3,3]((1,2,5),(3,8,18),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(2,5,10),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,10),(1,3,6)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((1,2,4),(1,2,5),(2,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,4),(2,5,10)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
  [3,3]((3,7,18),(3,8,18),(1,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(1,2,5),(2,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,18),(1,0,0),(1,2,5)); lvl=1; h,r-ind=1,1
```

18.25 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,8,18)); lvl=0; h,r-ind=18,54
  [4,3]((3,6,13),(1,1,2),(1,0,0),(2,4,9)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,11),(1,0,0),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,13),(3,5,11),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(2,4,9),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,13),(3,5,11),(2,4,9)); lvl=2; h,r-ind=1,1
  [4,3]((3,8,18),(3,7,15),(3,6,13),(2,4,9)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,11),(7,15,33),(3,6,13),(3,7,15)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,11,24),(3,6,13),(7,15,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(5,11,24),(7,15,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,15),(5,11,24),(3,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(3,7,15),(5,11,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(2,5,11),(7,15,33)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(3,8,18),(2,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(7,15,33),(3,6,13)); lvl=2; h,r-ind=1,1
  [3,3]((2,2,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,5,6),(2,2,3),(1,0,0)); lvl=1; h,r-ind=3,3
    [4,3]((1,1,1),(2,3,3),(2,2,3),(4,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,6),(2,3,4),(4,7,9)); lvl=3; h,r-ind=1,1
      [4,3]((4,6,7),(7,10,12),(3,5,6),(2,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((6,9,11),(7,10,12),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,6),(6,9,11),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,7),(6,9,11),(7,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,7),(3,5,6),(6,9,11)); lvl=4; h,r-ind=1,1
      [4,3]((2,2,3),(1,1,1),(7,10,12),(2,3,4)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(7,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,5),(7,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((4,6,7),(3,5,6),(2,3,3)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(4,6,7),(7,10,12),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,8),(7,10,12),(4,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,3),(5,7,8),(4,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(5,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(5,7,8),(7,10,12)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,3),(2,5,6),(1,3,3),(4,7,9)); lvl=2; h,r-ind=3,1
    [4,3]((1,2,2),(2,4,5),(1,3,3),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,5,6),(3,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,6),(3,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(3,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(3,7,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(4,7,9),(3,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,3,3)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
[4,3]((3,7,15),(3,6,13),(1,1,2),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((4,8,17),(1,1,2),(3,6,13)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,15),(4,8,17),(3,6,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,4),(4,8,17),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,15),(1,2,4),(4,8,17)); lvl=2; h,r-ind=1,1
[5,3]((1,3,4),(1,3,6),(2,5,7),(3,7,15),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,10),(1,2,4),(3,7,15)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,6),(2,5,10),(3,7,15)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,10),(2,5,9),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,8),(2,5,9),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,7),(2,5,8),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,4),(2,5,7),(2,5,8)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,4),(1,3,5),(2,5,8),(2,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,8),(2,5,9),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,9),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,8),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,4),(3,8,13)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,6),(1,3,5),(2,5,10),(2,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,10),(2,5,9),(3,8,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,9),(3,8,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,5),(3,8,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,10),(3,8,15)); lvl=3; h,r-ind=1,1
[3,3]((3,8,18),(1,3,6),(3,7,15)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((0,1,0),(1,3,4),(1,3,6)); lvl=1; h,r-ind=2,2; optimized-h
[5,3]((2,5,6),(2,2,3),(2,5,7),(1,1,2),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(1,2,4),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,3),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,3),(4,7,9),(2,2,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,5,6),(1,2,3),(4,7,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,2,3),(1,2,4),(2,5,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,6),(1,2,3),(2,5,7)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(1,3,4),(2,5,6),(2,5,7)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,3),(2,5,6),(2,5,7),(4,11,14)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,5,6),(3,8,10),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,14),(3,8,10),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,6),(3,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,14),(1,3,3),(3,8,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,4),(2,5,7),(4,11,14)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,3,4),(1,3,3),(4,11,14)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,6,7),(1,3,4),(4,11,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(2,6,7),(4,11,14)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,6,7),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(0,1,0),(2,6,7)); lvl=3; h,r-ind=1,1
```

18.26 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,10,18)); lvl=0; h,r-ind=18,54
  [5,3]((1,3,5),(4,11,19),(1,2,3),(3,7,12),(3,5,8)); lvl=1; h,r-ind=1,1
    [4,3]((4,9,15),(3,6,10),(3,7,12),(4,10,17)); lvl=2; h,r-ind=1,1
      [3,3]((7,16,27),(3,7,12),(3,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,15),(7,16,27),(3,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,17),(4,9,15),(7,16,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,17),(7,16,27),(3,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,19),(3,7,12),(4,10,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(4,11,19),(4,10,17)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(4,9,15),(6,14,23),(4,10,17)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,14,23),(5,12,20),(4,9,15)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((4,10,17),(5,12,20),(4,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(4,10,17),(5,12,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(6,14,23),(5,12,20)); lvl=3; h,r-ind=1,1
    [5,3]((1,2,3),(4,9,15),(6,14,23),(3,5,8),(3,6,10)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,18),(6,14,23),(4,9,15)); lvl=3; h,r-ind=1,1
      [4,3]((8,17,28),(9,19,31),(5,11,18),(4,9,15)); lvl=3; h,r-ind=1,1
        [3,3]((13,28,46),(5,11,18),(9,19,31)); lvl=4; h,r-ind=1,1
        [3,3]((8,17,28),(13,28,46),(9,19,31)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,15),(13,28,46),(5,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((8,17,28),(4,9,15),(13,28,46)); lvl=4; h,r-ind=1,1
      [3,3]((8,17,28),(3,6,10),(4,9,15)); lvl=3; h,r-ind=1,1
      [4,3]((8,17,28),(4,8,13),(9,19,31),(3,6,10)); lvl=3; h,r-ind=1,1
        [3,3]((12,25,41),(4,8,13),(9,19,31)); lvl=4; h,r-ind=1,1
        [3,3]((8,17,28),(12,25,41),(9,19,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,10),(12,25,41),(4,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((8,17,28),(3,6,10),(12,25,41)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,8),(4,8,13),(3,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,8),(4,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,8,13),(9,19,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(9,19,31),(5,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,18),(6,14,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,3),(6,14,23)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,4,7),(3,7,12),(3,5,8)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(2,4,7),(3,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,10),(2,3,5),(3,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,8),(3,6,10),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,5,8),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,5),(2,4,7)); lvl=2; h,r-ind=1,1
  [6,3]((4,12,21),(4,11,19),(2,4,7),(3,9,16),(2,5,9),(3,7,12)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,14),(2,4,7),(3,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,19),(3,8,14),(3,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,12,21),(4,11,19),(3,8,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(3,8,14),(2,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,16),(2,5,9),(3,8,14)); lvl=2; h,r-ind=1,1
    [3,3]((4,12,21),(3,9,16),(3,8,14)); lvl=2; h,r-ind=1,1
  [3,3]((3,10,18),(3,9,16),(2,5,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,7),(2,5,9)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,3),(1,0,0),(1,2,3),(3,5,8)); lvl=1; h,r-ind=1,1
    [3,3]((1,0,0),(3,5,8),(4,6,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,3),(3,5,8),(4,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(2,3,3),(1,2,3),(4,6,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,2,3),(5,9,12),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,3
        [3,3]((5,9,12),(3,5,7),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(3,5,7),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(5,9,12),(3,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(1,2,3),(3,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(5,9,12),(2,3,4)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((1,2,2),(2,3,3),(2,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(1,3,3),(1,2,2),(5,9,12)); lvl=3; h,r-ind=1,3
        [3,3]((2,4,5),(1,3,3),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,12),(2,4,5),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(5,9,12),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,5),(1,3,3)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,3),(1,0,0),(4,6,9)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,10,18),(4,12,21),(3,9,16)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,5),(4,12,21),(4,11,19)); lvl=1; h,r-ind=1,1
  [4,3]((3,10,18),(3,11,18),(1,3,5),(4,12,21)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,12),(1,3,5),(3,11,18)); lvl=2; h,r-ind=1,1
    [3,3]((5,16,28),(2,7,12),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((5,16,28),(4,12,21),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,18),(5,16,28),(4,12,21)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,10,18),(5,16,28),(2,7,12)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,3,5),(1,3,3),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((3,11,18),(1,3,5),(0,1,0),(1,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,5),(1,3,4),(2,7,9),(2,7,10)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(3,10,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(2,7,9),(3,10,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,10),(3,10,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,4),(3,10,14)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,4,6),(2,7,9),(2,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,4,5),(2,7,9),(2,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,4,5),(2,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,6),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,5),(2,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,3,5),(2,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,18),(1,4,6),(1,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,3),(1,3,4),(2,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(1,4,4),(1,3,4)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((0,1,0),(2,7,9),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(1,3,3)); lvl=3; h,r-ind=1,1
```

18.27 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,13,18)); lvl=0; h,r-ind=18,108
  [5,3]((2,7,9),(1,3,3),(1,2,2),(2,4,5),(1,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,2),(3,8,9),(2,5,6),(4,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,9),(4,11,13),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(4,11,13),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,8,9),(5,13,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(3,9,11),(2,5,6),(4,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,9,11),(4,11,13),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(4,11,13),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,9,11),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(1,3,4),(5,14,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,9),(1,3,4),(3,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(3,9,11),(3,8,9),(4,11,13)); lvl=2; h,r-ind=1,1
      [4,3]((2,6,7),(9,25,29),(3,9,11),(4,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,11,13),(9,25,29),(6,17,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(9,25,29),(6,17,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,11),(4,11,13),(6,17,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(3,9,11),(6,17,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,9),(9,25,29),(4,11,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(2,6,7),(3,8,9),(9,25,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,14,16),(9,25,29),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(5,14,16),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(1,3,3),(5,14,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(5,14,16),(9,25,29)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(3,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,9),(1,3,3),(3,9,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,2),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,5),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((3,11,15),(1,0,0),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((2,8,11),(3,11,15),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,13,18),(2,8,11),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,7,9),(4,15,20),(3,11,15),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,11,15),(4,15,20),(5,18,24)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,9),(4,15,20),(5,18,24)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,9),(5,18,24)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(3,11,15),(5,18,24)); lvl=2; h,r-ind=1,1
  [4,3]((2,8,11),(4,15,20),(3,12,16),(3,11,15)); lvl=1; h,r-ind=1,1
    [3,3]((6,23,31),(3,12,16),(4,15,20)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,15),(6,23,31),(4,15,20)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,11),(3,11,15),(6,23,31)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,11),(6,23,31),(3,12,16)); lvl=2; h,r-ind=1,1
  [6,3]((0,1,0),(3,14,18),(2,7,9),(4,15,20),(1,3,3),(3,12,16)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,5),(1,5,6),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,9),(1,4,5),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,8,9),(0,1,0)); lvl=2; h,r-ind=3,9; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,3),(2,8,9),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,9),(1,3,3),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((3,13,17),(1,4,5),(1,5,6),(3,14,18)); lvl=2; h,r-ind=1,1
      [3,3]((4,18,23),(1,5,6),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,17),(4,18,23),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,18),(4,18,23),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,17),(3,14,18),(4,18,23)); lvl=3; h,r-ind=1,1
    [3,3]((3,12,16),(3,13,17),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,20),(3,12,16),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,9),(4,15,20),(1,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((3,13,18),(2,8,11),(3,14,18),(3,12,16)); lvl=1; h,r-ind=1,1
    [4,3]((9,38,51),(5,21,28),(3,12,16),(2,8,11)); lvl=2; h,r-ind=1,1
      [3,3]((7,29,39),(5,21,28),(3,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(7,29,39),(3,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((9,38,51),(2,8,11),(7,29,39)); lvl=3; h,r-ind=1,1
      [3,3]((9,38,51),(7,29,39),(5,21,28)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,12),(3,13,18),(9,38,51),(2,8,11)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,13,18),(4,17,23),(2,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((9,38,51),(4,17,23),(2,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,12),(3,13,18),(4,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((9,38,51),(2,9,12),(4,17,23)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,17),(5,21,28),(3,12,16)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,12),(9,38,51),(3,13,17),(5,21,28)); lvl=2; h,r-ind=1,1
      [3,3]((9,38,51),(7,30,40),(5,21,28)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,17),(7,30,40),(5,21,28)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,9,12),(9,38,51),(7,30,40)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,17),(2,9,12),(7,30,40)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(3,14,18),(3,13,17)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(2,4,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

18.28 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,14,18)); lvl=0; h,r-ind=18,54
  [4,3]((1,4,5),(1,2,2),(1,3,3),(2,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,3),(2,6,7),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(2,6,7),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,5,6),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(1,3,3),(2,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(2,5,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,4,5),(1,0,0),(2,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,5),(1,0,0),(2,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((3,14,18),(1,4,5),(2,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,5,6),(1,4,5),(0,1,0),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,4),(1,3,3),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,10),(1,4,4),(2,9,9),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,4),(2,9,9),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(2,9,9),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,10),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,4),(3,13,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,10),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,5,6),(2,9,10),(2,9,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,5),(1,5,6),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,9),(1,5,5),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(1,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((3,14,18),(1,5,6),(1,4,5)); lvl=1; h,r-ind=1,1
```

18.29 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,16,18)); lvl=0; h,r-ind=18,54
  [3,3]((1,3,3),(1,1,1),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,3),(3,17,18),(6,25,27),(0,1,0)); lvl=1; h,r-ind=9,9
    [4,3]((6,29,31),(1,6,6),(2,9,9),(3,17,18)); lvl=2; h,r-ind=1,1
      [4,3]((6,31,33),(3,17,18),(1,5,5),(1,6,6)); lvl=3; h,r-ind=1,1
        [4,3]((3,16,17),(5,27,28),(3,17,18),(1,6,6)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,22,23),(5,27,28),(1,6,6)); lvl=5; h,r-ind=1,1
          [3,3]((3,17,18),(4,22,23),(1,6,6)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,17),(3,17,18),(4,22,23)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,17),(4,22,23),(5,27,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,5),(5,27,28),(1,6,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,17),(1,5,5),(5,27,28)); lvl=4; h,r-ind=1,1
        [3,3]((6,31,33),(3,16,17),(1,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((3,15,16),(6,31,33),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,20),(3,15,16),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,20),(1,5,5),(2,9,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,29,31),(4,19,20),(3,15,16)); lvl=3; h,r-ind=1,1
    [5,3]((1,4,4),(5,20,21),(3,13,14),(6,29,31),(2,9,9)); lvl=2; h,r-ind=1,1
      [3,3]((4,19,20),(3,14,15),(6,29,31)); lvl=3; h,r-ind=1,1
      [5,3]((11,49,51),(6,27,28),(4,19,20),(4,18,19),(3,14,15)); lvl=3; h,r-ind=1,1
        [5,3]((9,41,43),(16,73,77),(4,19,20),(5,23,24),(3,14,15)); lvl=4; h,r-ind=1,1
          [3,3]((9,41,43),(16,73,77),(12,55,58)); lvl=5; h,r-ind=1,1
          [3,3]((3,14,15),(16,73,77),(12,55,58)); lvl=5; h,r-ind=1,1
          [4,3]((9,41,43),(20,92,97),(17,78,82),(12,55,58)); lvl=5; h,r-ind=1,1
            [3,3]((29,133,140),(20,92,97),(17,78,82)); lvl=6; h,r-ind=1,1
            [3,3]((9,41,43),(29,133,140),(17,78,82)); lvl=6; h,r-ind=1,1
            [3,3]((12,55,58),(29,133,140),(20,92,97)); lvl=6; h,r-ind=1,1
            [3,3]((9,41,43),(12,55,58),(29,133,140)); lvl=6; h,r-ind=1,1
          [3,3]((3,14,15),(20,92,97),(12,55,58)); lvl=5; h,r-ind=1,1
          [4,3]((20,92,97),(17,78,82),(5,23,24),(8,37,39)); lvl=5; h,r-ind=1,1
            [3,3]((17,78,82),(5,23,24),(25,115,121)); lvl=6; h,r-ind=1,1
            [3,3]((8,37,39),(5,23,24),(25,115,121)); lvl=6; h,r-ind=1,1
            [3,3]((20,92,97),(8,37,39),(25,115,121)); lvl=6; h,r-ind=1,1
```

```
          [3,3]((20,92,97),(17,78,82),(25,115,121)); lvl=6; h,r-ind=1,1
        [3,3]((5,23,24),(4,19,20),(8,37,39)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,15),(4,19,20),(8,37,39)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,15),(20,92,97),(8,37,39)); lvl=5; h,r-ind=1,1
        [3,3]((9,41,43),(17,78,82),(5,23,24)); lvl=5; h,r-ind=1,1
      [3,3]((4,18,19),(16,73,77),(3,14,15)); lvl=4; h,r-ind=1,1
      [4,3]((6,27,28),(9,41,43),(10,45,47),(5,23,24)); lvl=4; h,r-ind=1,1
        [3,3]((15,68,71),(9,41,43),(10,45,47)); lvl=5; h,r-ind=1,1
        [3,3]((6,27,28),(15,68,71),(10,45,47)); lvl=5; h,r-ind=1,1
        [3,3]((5,23,24),(6,27,28),(15,68,71)); lvl=5; h,r-ind=1,1
        [3,3]((5,23,24),(15,68,71),(9,41,43)); lvl=5; h,r-ind=1,1
      [3,3]((11,49,51),(6,27,28),(10,45,47)); lvl=4; h,r-ind=1,1
      [4,3]((4,18,19),(9,41,43),(10,45,47),(16,73,77)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((9,41,43),(13,59,62),(10,45,47)); lvl=5; h,r-ind=1,1
        [3,3]((4,18,19),(13,59,62),(10,45,47)); lvl=5; h,r-ind=1,1
        [3,3]((16,73,77),(4,18,19),(13,59,62)); lvl=5; h,r-ind=1,1
        [3,3]((16,73,77),(9,41,43),(13,59,62)); lvl=5; h,r-ind=1,1
      [3,3]((11,49,51),(4,18,19),(10,45,47)); lvl=4; h,r-ind=1,1
    [4,3]((3,13,14),(4,17,18),(4,18,19),(3,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((7,31,33),(4,18,19),(4,17,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,14),(7,31,33),(4,17,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,15),(7,31,33),(4,18,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,14),(3,14,15),(7,31,33)); lvl=4; h,r-ind=1,1
    [3,3]((5,20,21),(3,13,14),(4,17,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,4),(11,49,51),(4,17,18),(4,18,19)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((5,22,23),(4,18,19),(11,49,51)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(5,22,23),(11,49,51)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,18),(5,22,23),(4,18,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(4,17,18),(5,22,23)); lvl=4; h,r-ind=1,1
    [3,3]((5,20,21),(1,4,4),(4,17,18)); lvl=3; h,r-ind=1,1
    [3,3]((6,27,28),(2,9,9),(4,19,20)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,4,4),(11,49,51),(6,27,28),(2,9,9)); lvl=3; h,r-ind=1,1
      [3,3]((11,49,51),(7,31,32),(6,27,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,9),(7,31,32),(6,27,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(2,9,9),(7,31,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(11,49,51),(7,31,32)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,3),(1,4,4),(5,20,21)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,3),(5,20,21),(6,25,27),(3,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((4,16,17),(3,13,14),(5,20,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(4,16,17),(5,20,21)); lvl=3; h,r-ind=1,1
    [3,3]((6,25,27),(4,16,17),(3,13,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(6,25,27),(4,16,17)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,6),(2,9,9)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,4,4),(0,1,0),(2,9,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,3),(1,4,4),(0,1,0)); lvl=2; h,r-ind=1,1
[3,3]((3,16,18),(3,17,18),(6,25,27)); lvl=1; h,r-ind=27,9; alert-h-inc
  [3,3]((2,11,12),(2,10,11),(3,16,18)); lvl=2; h,r-ind=1,1
  [3,3]((9,41,45),(2,10,11),(3,16,18)); lvl=2; h,r-ind=3,3; optimized-h
  [4,3]((3,13,14),(6,25,27),(9,41,45),(2,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,11),(9,41,45),(5,22,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,11),(10,45,49),(5,22,24)); lvl=3; h,r-ind=1,1
    [4,3]((3,13,14),(6,25,27),(10,45,49),(5,22,24)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((8,35,38),(6,25,27),(5,22,24)); lvl=4; h,r-ind=1,1
      [3,3]((10,45,49),(8,35,38),(5,22,24)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,14),(10,45,49),(8,35,38)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,14),(8,35,38),(6,25,27)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,11),(3,13,14),(10,45,49)); lvl=3; h,r-ind=1,1
  [4,3]((2,11,12),(3,17,18),(6,29,31),(2,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,11),(6,29,31),(3,15,16)); lvl=3; h,r-ind=1,1
    [4,3]((2,10,11),(9,47,51),(6,31,33),(3,15,16)); lvl=3; h,r-ind=1,1
      [4,3]((3,15,16),(5,26,28),(10,51,55),(6,31,33)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,26,28),(8,41,44),(10,51,55)); lvl=5; h,r-ind=1,1
        [3,3]((3,15,16),(8,41,44),(10,51,55)); lvl=5; h,r-ind=1,1
        [3,3]((6,31,33),(3,15,16),(8,41,44)); lvl=5; h,r-ind=1,1
        [3,3]((6,31,33),(5,26,28),(8,41,44)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,11),(5,26,28),(10,51,55)); lvl=4; h,r-ind=1,1
      [3,3]((3,15,16),(2,10,11),(10,51,55)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,11),(9,47,51),(5,26,28)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,11),(2,11,12),(9,47,51)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,12),(3,17,18),(9,47,51),(6,31,33)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((5,26,28),(3,16,17),(12,64,69)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((2,11,12),(3,17,18),(3,16,17),(12,64,69)); lvl=4; h,r-ind=1,3
        [3,3]((3,17,18),(5,27,29),(3,16,17)); lvl=5; h,r-ind=1,1
        [3,3]((12,64,69),(5,27,29),(3,16,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,12),(12,64,69),(5,27,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,12),(3,17,18),(5,27,29)); lvl=5; h,r-ind=1,1
      [4,3]((2,11,12),(9,47,51),(5,26,28),(12,64,69)); lvl=4; h,r-ind=1,3
        [3,3]((9,47,51),(7,37,40),(5,26,28)); lvl=5; h,r-ind=1,1
        [3,3]((12,64,69),(7,37,40),(5,26,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,12),(12,64,69),(7,37,40)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((2,11,12),(9,47,51),(7,37,40)); lvl=5; h,r-ind=1,1
        [3,3]((6,31,33),(5,26,28),(3,16,17)); lvl=4; h,r-ind=1,1
    [3,3]((3,13,14),(6,29,31),(2,10,11)); lvl=2; h,r-ind=3,3; optimized-h
  [4,3]((3,10,11),(1,3,3),(6,25,27),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((6,25,27),(3,12,13),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((6,23,25),(1,2,2),(3,12,13),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(4,14,15),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,13),(4,14,15),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((6,23,25),(3,12,13),(4,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((6,23,25),(1,2,2),(4,14,15)); lvl=3; h,r-ind=1,1
    [4,3]((6,23,25),(3,10,11),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,1
      [4,3]((3,11,12),(5,14,15),(3,10,11),(1,1,1)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,12,13),(5,14,15),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,11),(4,12,13),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,12),(3,10,11),(4,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,12),(4,12,13),(5,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(5,14,15),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,11,12),(5,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(6,23,25),(3,11,12)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(2,8,9),(3,10,11),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((3,9,10),(2,8,9),(3,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,10),(1,1,1),(3,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,9,10),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,9,10),(2,8,9)); lvl=2; h,r-ind=1,1
  [4,3]((3,16,18),(2,8,9),(3,10,11),(6,25,27)); lvl=1; h,r-ind=1,1
    [3,3]((2,9,10),(3,10,11),(2,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,16,18),(2,9,10),(2,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,10),(6,23,25),(3,10,11)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,9,10),(3,12,13),(6,23,25)); lvl=2; h,r-ind=1,1
    [4,3]((9,41,45),(2,9,10),(6,25,27),(3,12,13)); lvl=2; h,r-ind=1,1
      [3,3]((10,43,47),(3,12,13),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,22,24),(10,43,47),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((9,41,45),(5,22,24),(2,9,10)); lvl=3; h,r-ind=1,1
      [4,3]((5,22,24),(10,43,47),(6,25,27),(3,12,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,34,37),(3,12,13),(10,43,47)); lvl=4; h,r-ind=1,1
        [3,3]((5,22,24),(8,34,37),(10,43,47)); lvl=4; h,r-ind=1,1
        [3,3]((6,25,27),(5,22,24),(8,34,37)); lvl=4; h,r-ind=1,1
        [3,3]((6,25,27),(8,34,37),(3,12,13)); lvl=4; h,r-ind=1,1
    [3,3]((3,16,18),(9,41,45),(2,9,10)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
```

18.30 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,17,18)); lvl=0; h,r-ind=18,108
  [3,3]((0,1,0),(1,1,1),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,17,18),(1,1,1),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,6,6),(0,1,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,6,6),(3,17,18),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,17,18),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

18.31 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,5,18)); lvl=0; h,r-ind=18,162
  [3,3]((1,1,2),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,10),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,7),(3,3,10),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,18),(2,2,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,1,2),(2,3,5),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,5),(2,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,3,3),(1,1,1),(1,1,2),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(1,1,2),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(2,3,4),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(2,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(1,1,2)); lvl=2; h,r-ind=1,1
  [5,3]((3,4,11),(1,1,2),(2,3,5),(2,3,7),(1,1,3)); lvl=1; h,r-ind=1,1
    [4,3]((3,4,10),(2,3,6),(3,4,9),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,16),(2,3,6),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(5,7,16),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,16),(2,3,6)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((3,4,10),(2,3,7),(5,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,11),(3,4,10),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,11),(3,4,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(5,6,14),(3,4,10),(3,4,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,12),(3,4,9),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,12),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,14),(4,5,12),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(5,6,14),(4,5,12)); lvl=3; h,r-ind=1,1
    [5,3]((1,1,2),(5,6,14),(2,3,5),(2,3,6),(3,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((6,8,17),(2,3,6),(3,4,9)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,11),(7,9,19),(6,8,17),(3,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((6,8,17),(7,9,19),(10,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,11),(7,9,19),(10,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(4,5,11),(10,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(6,8,17),(10,13,28)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,14),(4,5,11),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,6,14),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,11),(7,9,19)); lvl=3; h,r-ind=1,1
      [4,3]((7,9,19),(6,8,17),(2,3,6),(3,4,8)); lvl=3; h,r-ind=1,1
        [3,3]((6,8,17),(2,3,6),(9,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,8),(2,3,6),(9,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,19),(3,4,8),(9,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,19),(6,8,17),(9,12,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(7,9,19),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(2,3,6),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,5),(3,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,2),(5,6,14)); lvl=2; h,r-ind=1,1
  [5,3]((5,6,20),(3,3,10),(3,4,11),(3,4,12),(1,1,3)); lvl=1; h,r-ind=1,1
    [3,3]((8,9,29),(1,1,3),(3,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,20),(8,9,29),(3,3,10)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((8,9,29),(4,5,15),(5,6,19),(1,1,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,6,19),(4,5,15),(6,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,15),(6,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,29),(5,6,19),(6,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(8,9,29),(6,7,22)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,11),(4,5,15),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(3,4,11),(4,5,15)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,12),(4,5,16),(4,5,15),(5,6,19)); lvl=2; h,r-ind=1,1
      [3,3]((8,10,31),(5,6,19),(4,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,12),(8,10,31),(4,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,15),(8,10,31),(5,6,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,12),(4,5,15),(8,10,31)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,20),(4,5,16),(8,9,29),(5,6,19)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,16),(5,6,19),(20,24,77)); lvl=3; h,r-ind=1,1
      [4,3]((8,9,29),(13,15,49),(5,6,19),(20,24,77)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((11,13,42),(5,6,19),(20,24,77),(28,33,106)); lvl=4; h,r-ind=1,3
          [3,3]((16,19,61),(20,24,77),(5,6,19)); lvl=5; h,r-ind=1,1
          [3,3]((28,33,106),(16,19,61),(5,6,19)); lvl=5; h,r-ind=1,1
          [3,3]((11,13,42),(28,33,106),(16,19,61)); lvl=5; h,r-ind=1,1
          [3,3]((11,13,42),(16,19,61),(20,24,77)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,26),(11,13,42),(28,33,106)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((7,8,26),(11,13,42),(13,15,49)); lvl=4; h,r-ind=1,1
        [4,3]((8,9,29),(7,8,26),(5,6,19),(28,33,106)); lvl=4; h,r-ind=1,3
          [3,3]((7,8,26),(12,14,45),(28,33,106)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,19),(12,14,45),(28,33,106)); lvl=5; h,r-ind=1,1
          [3,3]((8,9,29),(5,6,19),(12,14,45)); lvl=5; h,r-ind=1,1
          [3,3]((8,9,29),(7,8,26),(12,14,45)); lvl=5; h,r-ind=1,1
      [4,3]((5,6,20),(13,15,49),(4,5,16),(20,24,77)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((4,5,16),(20,24,77),(11,13,42),(25,30,97)); lvl=4; h,r-ind=1,3
          [3,3]((11,13,42),(20,24,77),(15,18,58)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,16),(20,24,77),(15,18,58)); lvl=5; h,r-ind=1,1
          [3,3]((25,30,97),(11,13,42),(15,18,58)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,16),(25,30,97),(15,18,58)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,23),(11,13,42),(25,30,97)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((4,5,16),(5,6,20),(6,7,23),(25,30,97)); lvl=4; h,r-ind=1,3
          [3,3]((5,6,20),(10,12,39),(6,7,23)); lvl=5; h,r-ind=1,1
          [3,3]((25,30,97),(10,12,39),(6,7,23)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,16),(25,30,97),(10,12,39)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,16),(5,6,20),(10,12,39)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,23),(13,15,49),(11,13,42)); lvl=4; h,r-ind=1,1
  [4,3]((4,5,18),(3,4,13),(5,6,20),(3,4,12)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,17),(3,4,13),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,16),(4,5,17),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,16),(5,6,20),(4,5,17)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,18),(5,6,20),(4,5,17)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,18),(4,5,17),(3,4,13)); lvl=2; h,r-ind=1,1
  [4,3]((4,5,18),(2,2,7),(5,6,20),(3,3,10)); lvl=1; h,r-ind=1,1
    [3,3]((11,12,41),(2,2,7),(3,3,10)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,20),(6,7,24),(11,12,41),(3,3,10)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((6,7,24),(11,12,41),(9,10,34)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((3,3,10),(11,12,41),(9,10,34)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,24),(16,18,61),(9,10,34)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,10),(16,18,61),(9,10,34)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,27),(3,3,10),(16,18,61)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,20),(7,8,27),(3,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,27),(6,7,24),(16,18,61)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,20),(7,8,27),(6,7,24)); lvl=3; h,r-ind=1,1
    [4,3]((6,7,24),(5,6,21),(11,12,41),(2,2,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((8,9,31),(2,2,7),(5,6,21)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,24),(8,9,31),(5,6,21)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,31),(11,12,41),(2,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,24),(8,9,31),(11,12,41)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,18),(5,6,21),(2,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,20),(6,7,24),(5,6,21)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,18),(5,6,20),(5,6,21)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,11),(2,3,7),(1,2,4),(3,4,12)); lvl=1; h,r-ind=1,1
    [4,3]((7,10,26),(2,3,8),(1,2,4),(2,3,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,6,15),(2,3,8),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(4,6,15),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,26),(4,6,15),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(7,10,26),(4,6,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,11),(7,10,26),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,11),(7,10,26),(3,4,12),(2,3,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,7,19),(2,3,8),(7,10,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,11),(5,7,19),(7,10,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,12),(5,7,19),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,11),(3,4,12),(5,7,19)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,13),(2,3,9),(1,2,4),(3,4,12)); lvl=1; h,r-ind=1,1
    [4,3]((7,10,30),(2,3,8),(1,2,4),(2,3,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,8),(1,2,4),(4,6,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(1,2,4),(4,6,17)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,30),(2,3,9),(4,6,17)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,30),(2,3,8),(4,6,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,13),(7,10,30),(2,3,9)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,13),(7,10,30),(3,4,12),(2,3,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,10,30),(5,7,21),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,12),(5,7,21),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(3,4,12),(5,7,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(7,10,30),(5,7,21)); lvl=3; h,r-ind=1,1
  [3,3]((4,5,18),(3,4,13),(2,3,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,9),(1,2,4)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,5),(2,3,7),(1,2,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,7),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
```

18.32 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,9,18)); lvl=0; h,r-ind=18,18
  [3,3]((2,5,5),(0,1,0),(1,0,0)); lvl=1; h,r-ind=5,5; optimized-h
  [4,3]((1,2,3),(2,3,6),(2,5,5),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,3),(2,3,4),(1,1,2),(1,0,0)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,4),(4,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(2,3,3),(2,3,4),(4,5,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(2,3,3),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(4,5,7),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(1,1,2),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(1,1,2)); lvl=3; h,r-ind=1,1
    [5,3]((6,10,15),(3,5,7),(2,3,4),(1,1,2),(2,3,5)); lvl=2; h,r-ind=1,1
      [5,3]((2,3,4),(9,14,21),(6,9,14),(7,11,16),(1,1,2)); lvl=3; h,r-ind=1,1
        [3,3]((4,6,9),(1,1,2),(6,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((9,14,21),(4,6,9),(6,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((9,14,21),(4,6,9),(7,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(2,3,4),(7,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(2,3,4),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,7),(2,3,4),(7,11,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(1,1,2)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,7),(5,8,12),(9,14,21),(7,11,16)); lvl=3; h,r-ind=1,1
        [3,3]((5,8,12),(12,19,28),(9,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((7,11,16),(12,19,28),(9,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,7),(5,8,12),(12,19,28)); lvl=4; h,r-ind=1,1
        [3,3]((7,11,16),(3,5,7),(12,19,28)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,5),(5,8,12),(9,14,21),(6,9,14)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((9,14,21),(5,8,12),(11,17,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(5,8,12),(11,17,26)); lvl=4; h,r-ind=1,1
      [3,3]((6,9,14),(2,3,5),(11,17,26)); lvl=4; h,r-ind=1,1
      [3,3]((6,9,14),(9,14,21),(11,17,26)); lvl=4; h,r-ind=1,1
    [3,3]((6,10,15),(2,3,5),(5,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,7),(6,10,15),(5,8,12)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,2),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(6,10,15),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,8),(2,3,6),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((6,10,15),(3,5,8),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(6,10,15),(3,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,8),(2,3,6)); lvl=3; h,r-ind=1,1
  [4,3]((3,5,7),(1,2,2),(2,3,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(1,2,2),(2,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,6),(2,3,4),(2,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,7),(3,5,6),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,7),(3,5,6),(1,2,2)); lvl=3; h,r-ind=1,1
  [5,3]((1,2,3),(6,10,15),(3,5,7),(2,5,5),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(6,11,15),(5,9,12),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,12),(6,11,15),(7,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(6,11,15),(7,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(7,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(5,9,12),(7,13,17)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,7),(5,9,12),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,5),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,5),(2,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,5),(6,11,15)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,7),(4,7,10),(6,11,15),(5,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((9,16,22),(6,11,15),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,7),(9,16,22),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,12),(9,16,22),(6,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,7),(5,9,12),(9,16,22)); lvl=4; h,r-ind=1,1
    [3,3]((6,10,15),(3,5,7),(4,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(4,7,10),(6,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((6,10,15),(1,2,3),(4,7,10)); lvl=3; h,r-ind=1,1
[3,3]((1,2,4),(2,5,9),(1,3,4)); lvl=1; h,r-ind=1,1
[3,3]((4,9,18),(1,2,4),(2,5,9)); lvl=1; h,r-ind=1,1
[3,3]((1,2,4),(1,2,3),(2,3,6)); lvl=1; h,r-ind=1,1
[3,3]((2,5,5),(1,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
[3,3]((1,3,4),(1,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
[3,3]((2,5,9),(1,3,4),(0,1,0)); lvl=1; h,r-ind=1,1
[5,3]((1,2,4),(1,2,3),(1,3,4),(2,5,5),(1,3,3)); lvl=1; h,r-ind=1,1
  [5,3]((1,2,4),(1,3,4),(3,8,10),(4,10,13),(3,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(3,8,10),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,7),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,7),(3,8,10),(4,10,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,7),(3,7,10),(4,10,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,7),(3,7,10)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,3),(2,5,6),(4,10,13),(3,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(4,10,13),(5,12,16)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,10),(4,10,13),(5,12,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,6),(5,12,16)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,10),(1,2,3),(5,12,16)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,3),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,3),(1,2,4),(3,7,10)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,3),(2,5,6),(3,8,10),(4,10,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(4,10,13),(5,13,16)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,10),(4,10,13),(5,13,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,6),(5,13,16)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,10),(1,3,3),(5,13,16)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,4),(1,3,3),(3,8,10)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,5),(1,3,3),(2,5,6)); lvl=2; h,r-ind=1,1
```

18.33 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,11,18)); lvl=0; h,r-ind=18,162
  [3,3]((1,2,2),(0,1,0),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,3,4),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,3),(2,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(2,5,8),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,8,13),(2,5,8),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,11,18),(3,8,13),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((1,2,3),(2,3,4),(1,2,2),(2,5,5),(2,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,7),(5,11,14),(3,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((5,11,14),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(1,2,3),(4,9,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(5,11,13),(6,13,16),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,13),(6,13,16),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,16),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,11,13),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(7,15,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(6,13,16),(5,11,14),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,14),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,14),(7,15,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(5,11,13),(3,7,8),(2,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,10),(5,11,13),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(4,9,10),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,9,10),(5,11,13)); lvl=3; h,r-ind=1,1
    [6,3]((5,11,13),(6,13,16),(5,11,14),(3,7,8),(3,7,9),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,11),(2,5,6),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(4,9,11),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,16),(5,11,14),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(6,13,16),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(4,9,11),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(3,7,8),(4,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,7),(3,7,9),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,8),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((3,8,12),(1,2,3),(2,5,7),(2,5,8)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,7),(1,2,3),(4,10,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,8),(1,2,3),(4,10,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,12),(2,5,8),(4,10,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,12),(2,5,7),(4,10,15)); lvl=2; h,r-ind=1,1
  [4,3]((3,8,13),(3,8,12),(2,5,8),(4,11,17)); lvl=1; h,r-ind=1,1
    [3,3]((6,16,25),(3,8,12),(2,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,13),(6,16,25),(2,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,17),(3,8,13),(6,16,25)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,17),(6,16,25),(3,8,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,2),(2,5,5),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((3,8,12),(2,5,5),(2,5,7),(0,1,0)); lvl=1; h,r-ind=1,1
    [4,3]((6,16,19),(2,5,6),(2,5,5),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,9),(2,5,6),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,8,9),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,16,19),(3,8,9),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(6,16,19),(3,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,5),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((6,16,19),(3,8,10),(1,3,4),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((4,11,13),(3,8,10),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(4,11,13),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((6,16,19),(4,11,13),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(6,16,19),(4,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,4),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,7),(3,8,12),(3,8,10),(1,3,4)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,3,4),(3,8,11),(3,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(3,8,11),(3,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(2,5,7),(3,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(1,3,4),(3,8,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,7),(6,16,19),(3,8,10),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,10),(6,16,19),(5,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(6,16,19),(5,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(3,8,10),(5,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(2,5,7),(5,13,16)); lvl=3; h,r-ind=1,1
  [4,3]((3,8,12),(4,11,17),(0,1,0),(2,6,9)); lvl=1; h,r-ind=1,1
    [3,3]((4,11,17),(2,6,9),(7,20,30)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,9),(7,20,30)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,4),(2,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((3,8,12),(1,3,4),(4,11,17),(7,20,30)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,14,21),(7,20,30),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,12),(5,14,21),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,14,21),(4,11,17),(7,20,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,12),(5,14,21),(4,11,17)); lvl=3; h,r-ind=1,1
  [4,3]((4,11,18),(3,8,13),(4,11,17),(2,6,9)); lvl=1; h,r-ind=1,1
    [3,3]((5,14,22),(4,11,17),(3,8,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,18),(5,14,22),(3,8,13)); lvl=2; h,r-ind=1,1
    [3,3]((5,14,22),(2,6,9),(4,11,17)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,18),(5,14,22),(2,6,9)); lvl=2; h,r-ind=1,1
```

18.34 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,13,18)); lvl=0; h,r-ind=18,162
  [4,3]((1,3,4),(2,5,5),(1,2,2),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(2,5,5),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,6),(2,5,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(2,4,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,3,4),(1,0,0),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,4),(1,0,0),(4,11,15)); lvl=1; h,r-ind=1,1
  [3,3]((4,13,18),(1,3,4),(4,11,15)); lvl=1; h,r-ind=1,1
  [3,3]((4,13,18),(1,0,0),(4,11,15)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,4),(0,1,0),(2,5,5)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((1,3,4),(0,1,0),(2,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((4,13,18),(1,3,4),(2,7,9)); lvl=1; h,r-ind=1,1
```

18.35 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,15,18)); lvl=0; h,r-ind=18,54
  [4,3]((1,1,1),(1,0,0),(5,15,18),(2,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,7),(2,5,6),(5,15,18)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(5,12,14),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(1,1,1),(5,12,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(5,12,14),(2,5,6),(1,0,0)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,12,14),(3,6,7),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,6,7),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(5,12,14),(3,6,7)); lvl=3; h,r-ind=1,1
  [4,3]((4,15,18),(2,7,8),(5,15,18),(2,6,7)); lvl=1; h,r-ind=1,1
    [4,3]((3,10,12),(10,33,39),(5,15,18),(2,6,7)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((5,16,19),(2,6,7),(5,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(5,16,19),(5,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((10,33,39),(3,10,12),(5,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((10,33,39),(5,16,19),(2,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,8),(5,17,20),(10,33,39),(2,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((7,23,27),(10,33,39),(5,17,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(7,23,27),(5,17,20)); lvl=3; h,r-ind=1,1
      [3,3]((7,23,27),(2,6,7),(10,33,39)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(7,23,27),(2,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,13),(2,7,8),(5,17,20)); lvl=2; h,r-ind=1,1
    [4,3]((3,10,12),(3,11,13),(5,17,20),(10,33,39)); lvl=2; h,r-ind=1,1
      [3,3]((8,27,32),(5,17,20),(3,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(8,27,32),(3,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((10,33,39),(8,27,32),(5,17,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(10,33,39),(8,27,32)); lvl=3; h,r-ind=1,1
    [3,3]((4,15,18),(3,10,12),(3,11,13)); lvl=2; h,r-ind=1,1
  [3,3]((4,15,18),(2,8,9),(2,7,8)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((2,7,8),(1,1,1),(2,5,5),(2,6,7)); lvl=1; h,r-ind=1,1
    [4,3]((2,6,7),(5,15,17),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,2),(5,15,17),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(5,15,17),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,2),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(1,1,1),(3,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,8),(2,6,7),(5,15,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,8),(5,15,17),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,8),(2,5,5),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,7,8),(2,5,5)); lvl=1; h,r-ind=6,18; optimized-h
  [3,3]((0,1,0),(2,8,9),(2,7,8)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,1,1),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
```

18.36 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,17,18)); lvl=0; h,r-ind=18,162
  [3,3]((0,1,0),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,17,18),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((4,17,18),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,17,18),(1,4,4),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=1; h,r-ind=1,1
  [3,3]((4,17,18),(1,4,4),(2,9,9)); lvl=1; h,r-ind=1,1
```

18.37 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,5,18)); lvl=0; h,r-ind=18,324
  [3,3]((1,1,3),(3,3,10),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,7),(3,3,10),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,18),(2,2,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(1,0,0)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((0,1,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,3),(3,3,10)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,7),(0,1,0),(3,3,10)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,18),(2,2,7),(0,1,0)); lvl=1; h,r-ind=1,1
```

18.38 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,6,18)); lvl=0; h,r-ind=18,54
  [4,3]((3,4,6),(3,4,8),(1,0,0),(1,1,3)); lvl=1; h,r-ind=2,4
    [3,3]((1,1,2),(3,4,8),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(1,1,2),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,1,3),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,0,0),(1,1,3)); lvl=2; h,r-ind=1,1
  [4,3]((5,7,16),(2,3,6),(3,4,8),(1,1,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,9),(2,3,6),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,9),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,16),(3,4,9),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(5,7,16),(3,4,9)); lvl=2; h,r-ind=1,1
  [5,3]((6,8,21),(9,13,30),(5,7,16),(4,5,14),(1,1,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,10),(5,7,16),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,14),(3,4,10),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((6,8,21),(4,5,14),(3,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,10),(5,7,16),(7,10,23)); lvl=2; h,r-ind=1,1
    [4,3]((9,13,30),(5,7,17),(3,4,10),(7,10,23)); lvl=2; h,r-ind=1,1
      [3,3]((12,17,40),(3,4,10),(5,7,17)); lvl=3; h,r-ind=1,1
      [3,3]((9,13,30),(12,17,40),(5,7,17)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,23),(12,17,40),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((9,13,30),(7,10,23),(12,17,40)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,17),(6,8,21),(3,4,10)); lvl=2; h,r-ind=1,1
  [3,3]((5,6,18),(4,5,14),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,18),(6,8,21),(4,5,14)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,6,18),(6,8,21)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(6,8,21),(9,13,30)); lvl=1; h,r-ind=9,3; optimized-h
  [4,3]((0,1,0),(9,13,30),(5,7,16),(2,3,6)); lvl=1; h,r-ind=2,1
    [3,3]((4,6,13),(7,10,23),(5,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(4,6,13),(5,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(4,6,13),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(9,14,30),(4,6,13),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,10),(4,6,13),(8,13,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,6,13),(8,13,26)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,2,3),(3,5,10),(8,13,26)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,3),(8,13,26),(4,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,10),(8,13,26),(4,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,2,3),(4,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,10),(0,1,0),(4,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((9,14,30),(3,5,10),(4,6,13)); lvl=3; h,r-ind=1,1
    [4,3]((9,14,30),(4,6,13),(9,13,30),(7,10,23)); lvl=2; h,r-ind=1,1
      [3,3]((4,6,13),(17,25,56),(7,10,23)); lvl=3; h,r-ind=1,1
      [4,3]((6,9,20),(9,13,30),(17,25,56),(7,10,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,13,30),(13,19,43),(7,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((17,25,56),(13,19,43),(7,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,20),(17,25,56),(13,19,43)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,20),(9,13,30),(13,19,43)); lvl=4; h,r-ind=1,1
      [3,3]((6,9,20),(4,6,13),(17,25,56)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,20),(9,14,30),(4,6,13)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,6),(1,0,0)); lvl=1; h,r-ind=6,6; optimized-h
  [4,3]((0,1,0),(2,3,6),(3,4,6),(3,4,8)); lvl=1; h,r-ind=2,1
    [3,3]((3,4,8),(2,3,5),(3,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,6),(3,4,6),(2,3,5),(3,4,7)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,6),(2,3,4),(7,10,16),(3,4,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,11),(2,3,4),(7,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(3,4,7),(7,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(5,7,11),(3,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(5,7,11),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(7,10,16),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(2,3,4),(7,10,16)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,3,5),(3,5,6),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(3,4,8),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(3,5,6),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(0,1,0),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(0,1,0),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,10),(1,2,2),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(4,7,10),(2,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(3,5,6),(1,2,2)); lvl=3; h,r-ind=1,1
```

18.39 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,7,18)); lvl=0; h,r-ind=18,324
  [4,3]((5,7,18),(5,6,15),(7,9,21),(5,7,17)); lvl=1; h,r-ind=1,1
    [4,3]((4,5,12),(3,4,10),(7,9,21),(6,8,19)); lvl=2; h,r-ind=1,1
      [3,3]((6,8,19),(3,4,10),(10,13,31)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(3,4,10),(10,13,31)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,21),(4,5,12),(10,13,31)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,21),(6,8,19),(10,13,31)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,17),(3,4,10),(6,8,19)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,17),(5,7,18),(3,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,15),(4,5,12),(3,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,18),(5,6,15),(3,4,10)); lvl=2; h,r-ind=1,1
  [5,3]((2,3,7),(3,4,9),(4,6,13),(7,9,21),(5,7,17)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,7),(4,6,13),(5,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,9),(4,6,13),(5,7,16)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,9),(9,12,28),(14,19,44),(7,9,21)); lvl=2; h,r-ind=1,1
      [3,3]((12,16,37),(9,12,28),(14,19,44)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(12,16,37),(14,19,44)); lvl=3; h,r-ind=1,1
      [3,3]((12,16,37),(7,9,21),(9,12,28)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(12,16,37),(7,9,21)); lvl=3; h,r-ind=1,1
    [4,3]((16,22,51),(13,18,42),(2,3,7),(5,7,16)); lvl=2; h,r-ind=1,1
      [3,3]((13,18,42),(2,3,7),(18,25,58)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,16),(2,3,7),(18,25,58)); lvl=3; h,r-ind=1,1
      [3,3]((16,22,51),(13,18,42),(18,25,58)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,16),(16,22,51),(18,25,58)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,9),(14,19,44),(16,22,51),(5,7,16)); lvl=2; h,r-ind=1,1
      [3,3]((19,26,60),(16,22,51),(14,19,44)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(19,26,60),(14,19,44)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,16),(19,26,60),(16,22,51)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(5,7,16),(19,26,60)); lvl=3; h,r-ind=1,1
    [3,3]((9,12,28),(7,9,21),(6,8,19)); lvl=2; h,r-ind=1,1
    [4,3]((5,7,17),(13,18,42),(8,11,26),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((10,14,33),(8,11,26),(13,18,42)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(10,14,33),(13,18,42)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,17),(10,14,33),(8,11,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,17),(10,14,33)); lvl=3; h,r-ind=1,1
    [6,3]((9,12,28),(14,19,44),(16,22,51),(13,18,42),(6,8,19),(8,11,26)); lvl=2; h,r-ind=1,1
      [3,3]((16,22,51),(11,15,35),(14,19,44)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,28),(11,15,35),(14,19,44)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,28),(6,8,19),(11,15,35)); lvl=3; h,r-ind=1,1
      [3,3]((13,18,42),(16,22,51),(11,15,35)); lvl=3; h,r-ind=1,1
      [3,3]((13,18,42),(8,11,26),(11,15,35)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,19),(8,11,26),(11,15,35)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,17),(6,8,19),(8,11,26)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,18),(2,3,7),(5,7,17)); lvl=1; h,r-ind=1,1
  [6,3]((3,4,9),(1,2,3),(3,5,10),(4,6,13),(3,4,8),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,6),(4,6,13),(3,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,3),(3,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(3,4,8),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,9),(2,3,6),(4,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,9),(2,3,6),(3,4,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(3,5,10)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,7),(0,1,0),(3,5,10)); lvl=1; h,r-ind=1,1
  [3,3]((5,7,18),(2,3,7),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,7),(3,5,10),(4,6,13)); lvl=1; h,r-ind=1,1
  [4,3]((3,3,7),(2,2,5),(5,6,15),(7,9,21)); lvl=1; h,r-ind=1,1
    [4,3]((4,5,12),(13,15,36),(2,2,5),(5,6,15)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((6,7,17),(13,15,36),(2,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,15),(6,7,17),(2,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(5,6,15),(6,7,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(6,7,17),(13,15,36)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,12),(7,9,21),(5,6,14)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((3,3,7),(7,8,19),(13,15,36),(2,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((9,10,24),(7,8,19),(13,15,36)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,5),(9,10,24),(13,15,36)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,7),(2,2,5),(9,10,24)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,7),(9,10,24),(7,8,19)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,12),(5,6,14),(7,8,19),(13,15,36)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,14),(11,13,31),(7,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((13,15,36),(11,13,31),(7,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(13,15,36),(11,13,31)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(5,6,14),(11,13,31)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,7),(5,6,14),(7,8,19)); lvl=2; h,r-ind=1,1
  [5,3]((3,4,9),(3,4,8),(3,3,7),(1,1,2),(7,9,21)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,11),(1,1,2),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,9),(4,5,11),(3,4,8)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,9),(7,9,21),(8,10,23),(12,15,34)); lvl=2; h,r-ind=1,1
      [3,3]((7,9,21),(11,14,32),(8,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((12,15,34),(11,14,32),(8,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(12,15,34),(11,14,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(7,9,21),(11,14,32)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,11),(13,16,36),(10,12,27),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((10,12,27),(13,16,36),(14,17,38)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,11),(13,16,36),(14,17,38)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,11),(14,17,38)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(10,12,27),(14,17,38)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,9),(4,5,11),(12,15,34),(13,16,36)); lvl=2; h,r-ind=1,1
      [3,3]((16,20,45),(13,16,36),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(16,20,45),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((12,15,34),(16,20,45),(13,16,36)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(12,15,34),(16,20,45)); lvl=3; h,r-ind=1,1
    [6,3]((8,10,23),(5,6,14),(6,7,16),(12,15,34),(13,16,36),(10,12,27)); lvl=2; h,r-ind=1,1
      [3,3]((9,11,25),(10,12,27),(6,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,14),(9,11,25),(6,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,23),(5,6,14),(9,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,25),(13,16,36),(10,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,25),(13,16,36),(12,15,34)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,23),(9,11,25),(12,15,34)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,21),(8,10,23),(5,6,14)); lvl=2; h,r-ind=1,1
    [4,3]((6,7,16),(10,12,27),(1,1,2),(3,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(7,8,18),(10,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,16),(7,8,18),(10,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,7),(6,7,16),(7,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,7),(1,1,2),(7,8,18)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,14),(6,7,16),(3,3,7)); lvl=2; h,r-ind=1,1
  [5,3]((3,4,8),(2,3,5),(2,3,4),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(2,2,3),(4,5,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,2),(2,2,3),(4,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(6,8,13),(5,7,11),(4,5,8)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,11),(6,8,13),(14,19,30)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,6),(4,5,8),(6,8,13),(14,19,30)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,12,19),(4,5,8),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((14,19,30),(9,12,19),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(14,19,30),(9,12,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(9,12,19),(4,5,8)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,4),(3,4,6),(5,7,11),(14,19,30)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,11,17),(3,4,6),(14,19,30)); lvl=4; h,r-ind=1,1
        [3,3]((8,11,17),(5,7,11),(14,19,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(8,11,17),(5,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(8,11,17),(3,4,6)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,2),(6,8,13),(3,4,7),(4,5,8)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,7),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,8),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,7),(7,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,8),(1,1,2),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(3,4,8),(3,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,5),(6,8,13),(3,4,7),(5,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((8,11,18),(6,8,13),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(8,11,18),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(8,11,18),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,7,11),(8,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,4),(5,7,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,3,4),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,3),(2,3,5),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((1,2,2),(2,3,4),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,4),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(1,2,2),(3,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,2),(1,2,3),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,7),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,7),(2,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((5,7,18),(1,0,0),(2,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((5,7,18),(2,2,5),(5,6,15)); lvl=1; h,r-ind=1,1
```

18.40 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,9,18)); lvl=0; h,r-ind=18,36
  [4,3]((1,1,2),(5,8,16),(3,6,10),(1,2,2)); lvl=1; h,r-ind=2,2
    [3,3]((2,3,6),(4,7,13),(5,8,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,3),(4,7,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,6,10),(4,7,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,6,10),(1,2,2)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,1,2),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((5,9,18),(2,4,7),(5,8,16),(3,6,10)); lvl=1; h,r-ind=1,1
    [3,3]((3,6,10),(4,7,13),(8,15,27)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((3,5,10),(5,9,17),(15,28,51),(4,7,13),(8,15,27)); lvl=2; h,r-ind=1,1
      [3,3]((15,28,51),(8,15,27),(13,24,44)); lvl=3; h,r-ind=1,1
      [4,3]((6,11,20),(11,20,37),(8,15,27),(13,24,44)); lvl=3; h,r-ind=1,1
        [3,3]((19,35,64),(13,24,44),(11,20,37)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,20),(19,35,64),(11,20,37)); lvl=4; h,r-ind=1,1
        [3,3]((8,15,27),(19,35,64),(13,24,44)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,20),(8,15,27),(19,35,64)); lvl=4; h,r-ind=1,1
      [4,3]((5,9,17),(19,34,64),(11,20,37),(13,24,44)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((16,29,54),(11,20,37),(19,34,64)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,17),(16,29,54),(19,34,64)); lvl=4; h,r-ind=1,1
        [3,3]((13,24,44),(16,29,54),(11,20,37)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,17),(13,24,44),(16,29,54)); lvl=4; h,r-ind=1,1
      [5,3]((3,5,10),(19,34,64),(4,7,13),(6,11,20),(11,20,37)); lvl=3; h,r-ind=1,1
        [4,3]((20,36,67),(23,41,77),(11,20,37),(14,25,47)); lvl=4; h,r-ind=1,1
          [3,3]((34,61,114),(14,25,47),(23,41,77)); lvl=5; h,r-ind=1,1
          [3,3]((20,36,67),(34,61,114),(23,41,77)); lvl=5; h,r-ind=1,1
          [3,3]((11,20,37),(34,61,114),(14,25,47)); lvl=5; h,r-ind=1,1
          [3,3]((20,36,67),(11,20,37),(34,61,114)); lvl=5; h,r-ind=1,1
        [3,3]((19,34,64),(11,20,37),(14,25,47)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,10),(19,34,64),(14,25,47)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,10),(23,41,77),(14,25,47)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,20),(20,36,67),(11,20,37)); lvl=4; h,r-ind=1,1
        [4,3]((6,11,20),(9,16,30),(20,36,67),(23,41,77)); lvl=4; h,r-ind=1,1
          [3,3]((23,41,77),(9,16,30),(29,52,97)); lvl=5; h,r-ind=1,1
          [3,3]((6,11,20),(9,16,30),(29,52,97)); lvl=5; h,r-ind=1,1
          [3,3]((20,36,67),(6,11,20),(29,52,97)); lvl=5; h,r-ind=1,1
          [3,3]((20,36,67),(23,41,77),(29,52,97)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,10),(9,16,30),(23,41,77)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,13),(6,11,20),(9,16,30)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,10),(4,7,13),(9,16,30)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,17),(15,28,51),(13,24,44)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,17),(3,5,10),(19,34,64)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,10),(5,8,16),(4,7,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,10),(7,12,24),(5,9,17)); lvl=2; h,r-ind=1,1
    [4,3]((15,28,51),(2,4,7),(3,6,10),(8,15,27)); lvl=2; h,r-ind=1,1
      [3,3]((10,19,34),(3,6,10),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((15,28,51),(10,19,34),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((8,15,27),(10,19,34),(3,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((8,15,27),(15,28,51),(10,19,34)); lvl=3; h,r-ind=1,1
    [5,3]((5,9,18),(7,12,24),(5,9,17),(15,28,51),(2,4,7)); lvl=2; h,r-ind=1,1
      [5,3]((18,33,62),(16,29,55),(9,16,31),(4,7,14),(13,24,45)); lvl=3; h,r-ind=1,1
        [3,3]((11,20,38),(9,16,31),(16,29,55)); lvl=4; h,r-ind=1,1
        [3,3]((18,33,62),(11,20,38),(16,29,55)); lvl=4; h,r-ind=1,1
        [3,3]((18,33,62),(13,24,45),(11,20,38)); lvl=4; h,r-ind=1,1
        [3,3]((11,20,38),(9,16,31),(4,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((13,24,45),(11,20,38),(4,7,14)); lvl=4; h,r-ind=1,1
      [4,3]((2,4,7),(18,33,62),(7,13,24),(13,24,45)); lvl=3; h,r-ind=1,1
        [3,3]((20,37,69),(7,13,24),(18,33,62)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((13,24,45),(20,37,69),(18,33,62)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(13,24,45),(20,37,69)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(20,37,69),(7,13,24)); lvl=4; h,r-ind=1,1
    [4,3]((5,9,17),(18,33,62),(16,29,55),(7,13,24)); lvl=3; h,r-ind=1,1
      [3,3]((16,29,55),(18,33,62),(23,42,79)); lvl=4; h,r-ind=1,1
      [3,3]((7,13,24),(18,33,62),(23,42,79)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,17),(7,13,24),(23,42,79)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,17),(16,29,55),(23,42,79)); lvl=4; h,r-ind=1,1
    [3,3]((5,9,17),(15,28,51),(7,13,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(15,28,51),(7,13,24)); lvl=3; h,r-ind=1,1
    [4,3]((5,9,18),(2,4,7),(4,7,14),(13,24,45)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((6,11,21),(2,4,7),(13,24,45)); lvl=4; h,r-ind=1,1
      [3,3]((6,11,21),(4,7,14),(13,24,45)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,18),(6,11,21),(4,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,18),(6,11,21),(2,4,7)); lvl=4; h,r-ind=1,1
    [4,3]((5,9,17),(16,29,55),(9,16,31),(7,12,24)); lvl=3; h,r-ind=1,1
      [3,3]((16,29,55),(14,25,48),(9,16,31)); lvl=4; h,r-ind=1,1
      [3,3]((7,12,24),(14,25,48),(9,16,31)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,17),(7,12,24),(14,25,48)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,17),(16,29,55),(14,25,48)); lvl=4; h,r-ind=1,1
    [3,3]((9,16,31),(4,7,14),(7,12,24)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,7),(3,6,10)); lvl=1; h,r-ind=1,1
  [3,3]((5,9,18),(0,1,0),(2,4,7)); lvl=1; h,r-ind=1,1
```

18.41 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,10,18)); lvl=0; h,r-ind=18,162
  [3,3]((3,6,10),(2,3,5),(2,4,7)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(3,5,9),(2,3,5),(2,4,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,7),(3,5,9),(2,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(3,4,7),(2,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,5),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,4,7),(3,5,9)); lvl=2; h,r-ind=1,1
  [3,3]((5,10,18),(3,5,9),(2,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,6,10),(2,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((5,10,18),(0,1,0),(2,4,7)); lvl=1; h,r-ind=1,1
  [4,3]((3,6,10),(4,5,8),(1,2,2),(2,3,5)); lvl=1; h,r-ind=1,1
    [4,3]((4,5,8),(6,9,14),(5,7,10),(4,6,9)); lvl=2; h,r-ind=1,1
      [4,3]((16,23,35),(9,13,20),(4,6,9),(6,9,14)); lvl=3; h,r-ind=1,1
        [3,3]((13,19,29),(4,6,9),(6,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((9,13,20),(13,19,29),(6,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((16,23,35),(9,13,20),(13,19,29)); lvl=4; h,r-ind=1,1
        [3,3]((16,23,35),(13,19,29),(4,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(9,13,20),(6,9,14)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,11),(3,4,6),(16,23,35),(9,13,20)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,6),(16,23,35),(12,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((9,13,20),(16,23,35),(12,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(9,13,20),(12,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(3,4,6),(12,17,26)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,6),(16,23,35),(5,7,10),(4,6,9)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((7,10,15),(16,23,35),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,10),(7,10,15),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(5,7,10),(7,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(7,10,15),(16,23,35)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(1,2,2),(5,7,10),(4,6,9)); lvl=2; h,r-ind=1,1
      [4,3]((4,6,9),(7,11,16),(5,7,10),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,4),(7,11,16),(6,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(7,11,16),(6,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,10),(2,3,4),(6,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(5,7,10),(6,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(7,11,16),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,6,9),(7,11,16)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(9,14,22),(6,9,14),(4,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((9,14,22),(7,11,17),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(7,11,17),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,6,9),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(9,14,22),(7,11,17)); lvl=3; h,r-ind=1,1
    [4,3]((3,6,10),(2,3,5),(1,2,3),(9,14,22)); lvl=2; h,r-ind=1,4; alert-r-inc
      [3,3]((3,5,8),(2,3,5),(9,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,8),(9,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,10),(3,5,8),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,6,10),(3,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,5),(9,14,22),(4,5,8),(6,9,14)); lvl=2; h,r-ind=1,1
      [3,3]((8,12,19),(9,14,22),(6,9,14)); lvl=3; h,r-ind=1,1
      [4,3]((8,12,19),(15,22,35),(5,7,11),(6,9,14)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((13,19,30),(5,7,11),(15,22,35)); lvl=4; h,r-ind=1,1
      [3,3]((8,12,19),(13,19,30),(15,22,35)); lvl=4; h,r-ind=1,1
      [3,3]((8,12,19),(13,19,30),(6,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((13,19,30),(6,9,14),(5,7,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,5),(8,12,19),(15,22,35)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,5),(15,22,35),(4,5,8),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,16),(5,7,11),(15,22,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(7,10,16),(15,22,35)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(7,10,16),(5,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(4,5,8),(7,10,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,5),(8,12,19),(9,14,22)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(4,5,8),(2,3,5)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(4,5,8),(1,2,2)); lvl=1; h,r-ind=6,6; optimized-h
[3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((0,1,0),(3,6,10),(1,2,2)); lvl=1; h,r-ind=4,4; optimized-h
```

18.42 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,11,18)); lvl=0; h,r-ind=18,324
  [3,3]((1,2,3),(5,10,16),(3,5,8)); lvl=1; h,r-ind=1,1
  [3,3]((5,11,18),(5,10,16),(3,5,8)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,3),(3,5,8)); lvl=1; h,r-ind=1,1
  [3,3]((5,11,18),(1,0,0),(3,5,8)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(1,0,0),(2,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((5,11,18),(1,2,3),(5,10,16)); lvl=1; h,r-ind=1,1
  [3,3]((5,11,18),(4,9,14),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,10),(4,9,14),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,7,10),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,7,10),(4,9,14)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((5,11,18),(0,1,0),(4,9,14)); lvl=1; h,r-ind=2,2; optimized-h
```

18.43 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,12,18)); lvl=0; h,r-ind=18,54
  [3,3]((1,2,2),(1,0,0),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((4,10,13),(1,2,2),(2,5,6),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,9),(1,2,2),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,10,13),(3,7,9),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(4,10,13),(3,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,7,9),(1,2,2)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,7),(9,23,30),(4,10,13),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((9,23,30),(6,15,20),(4,10,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(6,15,20),(4,10,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(1,2,3),(6,15,20)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(9,23,30),(6,15,20)); lvl=2; h,r-ind=1,1
  [3,3]((5,12,18),(2,5,7),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(9,23,30),(4,10,13),(2,5,6)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,6),(4,10,13),(5,13,16),(12,31,39)); lvl=2; h,r-ind=1,1
      [3,3]((9,23,29),(4,10,13),(12,31,39)); lvl=3; h,r-ind=1,1
      [3,3]((9,23,29),(5,13,16),(12,31,39)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(9,23,29),(5,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(9,23,29),(4,10,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(3,8,10),(5,13,16),(12,31,39)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,10),(8,21,26),(12,31,39)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,16),(8,21,26),(12,31,39)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(5,13,16),(8,21,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,8,10),(8,21,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(1,3,3),(5,13,16)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(3,8,10)); lvl=2; h,r-ind=1,1
    [4,3]((3,8,10),(9,23,30),(4,10,13),(12,31,39)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((7,18,23),(9,23,30),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((12,31,39),(7,18,23),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(12,31,39),(7,18,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(7,18,23),(9,23,30)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,7),(0,1,0),(9,23,30)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,12,18),(2,5,7),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,5,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
```

18.44 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,14,18)); lvl=0; h,r-ind=18,162
  [4,3]((3,5,6),(1,1,1),(5,13,16),(1,2,2)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,6),(8,16,19),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,6,7),(8,16,19),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,6,7),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(1,2,2),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,6,7),(8,16,19)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,6),(5,10,12),(8,16,19),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((6,11,13),(5,10,12),(8,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(6,11,13),(8,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(6,11,13),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,5,6),(6,11,13)); lvl=3; h,r-ind=1,1
    [4,3]((4,9,11),(2,5,6),(5,10,12),(8,16,19)); lvl=2; h,r-ind=1,1
      [3,3]((7,15,18),(8,16,19),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,11),(7,15,18),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(7,15,18),(8,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,11),(2,5,6),(7,15,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,6),(4,9,11),(5,10,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,11),(5,13,16),(2,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(3,9,10),(5,13,16),(1,2,2)); lvl=1; h,r-ind=2,2
    [4,3]((2,5,6),(1,3,3),(5,13,16),(4,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((6,16,19),(4,11,13),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(6,16,19),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,16),(6,16,19),(4,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(5,13,16),(6,16,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(3,9,10),(4,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(3,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,5,6),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,1
  [5,3]((3,8,10),(6,17,21),(2,6,7),(3,9,10),(5,13,16)); lvl=1; h,r-ind=1,1
    [4,3]((3,8,10),(14,39,47),(5,14,17),(12,33,40)); lvl=2; h,r-ind=1,1
      [3,3]((17,47,57),(14,39,47),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(17,47,57),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((12,33,40),(17,47,57),(14,39,47)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(12,33,40),(17,47,57)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,10),(6,17,21),(5,14,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(6,17,21),(5,14,17)); lvl=2; h,r-ind=1,1
    [6,3]((7,19,23),(11,31,37),(4,11,13),(6,17,20),(14,39,47),(12,33,40)); lvl=2; h,r-ind=1,1
      [3,3]((9,25,30),(4,11,13),(7,19,23)); lvl=3; h,r-ind=1,1
      [3,3]((9,25,30),(12,33,40),(7,19,23)); lvl=3; h,r-ind=1,1
      [3,3]((9,25,30),(14,39,47),(12,33,40)); lvl=3; h,r-ind=1,1
      [3,3]((11,31,37),(9,25,30),(14,39,47)); lvl=3; h,r-ind=1,1
      [3,3]((9,25,30),(6,17,20),(4,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((11,31,37),(9,25,30),(6,17,20)); lvl=3; h,r-ind=1,1
    [4,3]((3,8,10),(5,13,16),(7,19,23),(12,33,40)); lvl=2; h,r-ind=1,1
      [3,3]((10,27,33),(7,19,23),(5,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(10,27,33),(5,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((10,27,33),(12,33,40),(7,19,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(10,27,33),(12,33,40)); lvl=3; h,r-ind=1,1
    [3,3]((5,13,16),(7,19,23),(4,11,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,7),(11,31,37),(3,9,10),(6,17,20)); lvl=2; h,r-ind=1,1
      [3,3]((11,31,37),(6,17,20),(8,23,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,10),(6,17,20),(8,23,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,9,10),(8,23,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(11,31,37),(8,23,27)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,13),(3,9,10),(6,17,20)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,7),(11,31,37),(14,39,47),(5,14,17)); lvl=2; h,r-ind=1,1
      [3,3]((16,45,54),(14,39,47),(11,31,37)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(16,45,54),(11,31,37)); lvl=3; h,r-ind=1,1
      [3,3]((5,14,17),(16,45,54),(14,39,47)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(5,14,17),(16,45,54)); lvl=3; h,r-ind=1,1
  [3,3]((5,14,18),(3,8,10),(6,17,21)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((5,14,18),(6,17,21),(2,6,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,6,7),(3,9,10)); lvl=1; h,r-ind=1,1
  [3,3]((5,14,18),(0,1,0),(2,6,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [5,3]((1,0,0),(3,7,9),(3,8,10),(3,5,6),(5,13,16)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(5,13,16),(4,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,5,6),(4,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,4,5),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,9),(1,0,0),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,8,10),(5,13,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,9),(2,4,5),(3,8,10)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,9),(5,14,18),(3,8,10)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(3,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
```

18.45 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,15,18)); lvl=0; h,r-ind=18,108
  [4,3]((0,1,0),(3,9,10),(3,8,9),(1,2,2)); lvl=1; h,r-ind=1,3
    [3,3]((1,3,3),(3,9,10),(3,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(3,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(3,9,10)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,1),(3,7,8),(3,8,9),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,8),(3,8,9),(4,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(3,8,9),(4,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,7,8),(4,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,1,1),(4,9,10)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,6),(1,0,0),(1,1,1),(3,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((1,0,0),(3,6,7),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,8),(3,6,7),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(3,7,8),(3,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(1,0,0),(3,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,6),(2,6,7),(3,7,8),(3,8,9)); lvl=1; h,r-ind=1,1
    [3,3]((5,13,15),(3,8,9),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(5,13,15),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,8),(2,5,6),(5,13,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,8),(5,13,15),(3,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((5,15,18),(2,5,6),(2,6,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,6,7),(3,9,10),(3,8,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,6,7),(3,9,10)); lvl=1; h,r-ind=1,1
  [3,3]((5,15,18),(0,1,0),(2,6,7)); lvl=1; h,r-ind=1,1
```

18.46 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,17,18)); lvl=0; h,r-ind=18,324
  [3,3]((1,2,2),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,10,10),(1,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,10,10),(2,7,7),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,17,18),(2,7,7),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,17,18),(3,10,10),(2,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((5,17,18),(3,10,10),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,17,18),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((5,17,18),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(5,17,18),(1,1,1)); lvl=1; h,r-ind=1,1
```

18.47 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,7,18)); lvl=0; h,r-ind=18,54
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((3,3,7),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,4,9),(3,3,7),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,9),(6,7,15),(3,3,7)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,2),(6,7,15),(3,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,9),(0,1,0),(1,1,2),(6,7,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((6,8,15),(0,1,0),(1,2,3),(1,1,2)); lvl=3; h,r-ind=1,3
        [3,3]((2,3,5),(1,2,3),(0,1,0)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(1,1,2),(0,1,0)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,15),(2,3,5),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,15),(2,3,5),(1,2,3)); lvl=4; h,r-ind=1,1
      [4,3]((6,7,15),(3,4,8),(6,8,15),(1,1,2)); lvl=3; h,r-ind=1,3
        [3,3]((4,5,10),(3,4,8),(6,8,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(4,5,10),(6,8,15)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,15),(4,5,10),(3,4,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(6,7,15),(4,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,8),(6,8,15),(1,2,3)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((3,5,9),(3,4,8),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,9),(3,4,9),(6,7,15)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((3,3,7),(2,2,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((6,7,18),(2,2,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((6,7,18),(3,4,9),(3,3,7),(2,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((9,10,24),(3,3,7),(3,4,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
```

```
    [3,3]((9,11,27),(9,10,24),(3,4,9)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((9,10,24),(2,2,5),(3,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((6,7,18),(9,11,27),(9,10,24),(2,2,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((2,2,5),(15,17,42),(9,10,24),(6,7,17)); lvl=3; h,r-ind=1,3
        [3,3]((6,7,17),(8,9,22),(15,17,42)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,5),(8,9,22),(15,17,42)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,24),(6,7,17),(8,9,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,5),(9,10,24),(8,9,22)); lvl=4; h,r-ind=1,1
      [3,3]((15,17,42),(5,6,15),(6,7,17)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((9,11,27),(5,6,15),(6,7,17)); lvl=3; h,r-ind=1,1
      [4,3]((6,7,18),(2,2,5),(15,17,42),(5,6,15)); lvl=3; h,r-ind=1,3
        [3,3]((2,2,5),(15,17,42),(7,8,20)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,15),(15,17,42),(7,8,20)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,18),(5,6,15),(7,8,20)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,18),(2,2,5),(7,8,20)); lvl=4; h,r-ind=1,1
```

18.48 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,13,18)); lvl=0; h,r-ind=18,54
  [4,3]((5,10,13),(4,7,9),(6,11,15),(4,8,11)); lvl=1; h,r-ind=1,1
    [4,3]((3,6,8),(4,8,11),(6,11,15),(5,9,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,8,11),(6,11,15),(9,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,12),(6,11,15),(9,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,8),(4,8,11),(9,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,12),(3,6,8),(9,17,23)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,8),(4,7,9),(5,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,13),(3,6,8),(4,7,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(6,11,15),(4,8,11)); lvl=1; h,r-ind=1,1
  [4,3]((6,13,18),(3,7,9),(5,10,13),(4,8,11)); lvl=1; h,r-ind=3,1
    [3,3]((3,7,9),(3,6,8),(5,10,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,9),(9,20,27),(3,6,8)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((6,13,18),(4,8,11),(9,20,27),(3,6,8)); lvl=2; h,r-ind=1,1
      [3,3]((12,25,34),(3,6,8),(4,8,11)); lvl=3; h,r-ind=1,1
      [4,3]((6,13,18),(5,11,15),(12,25,34),(4,8,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,11,15),(12,25,34),(9,19,26)); lvl=4; h,r-ind=1,1
        [3,3]((4,8,11),(12,25,34),(9,19,26)); lvl=4; h,r-ind=1,1
        [3,3]((6,13,18),(5,11,15),(9,19,26)); lvl=4; h,r-ind=1,1
        [3,3]((4,8,11),(6,13,18),(9,19,26)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,15),(12,25,34),(3,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((9,20,27),(5,11,15),(3,6,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(6,13,18),(4,8,11)); lvl=1; h,r-ind=1,1
  [5,3]((0,1,0),(2,3,3),(3,7,9),(5,10,13),(4,7,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(5,10,13),(4,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((3,6,7),(3,5,6),(2,4,5),(4,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,6),(5,9,11),(4,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(5,9,11),(4,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(2,4,5),(5,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(3,5,6),(5,9,11)); lvl=3; h,r-ind=1,1
    [4,3]((3,6,7),(1,2,2),(2,3,3),(3,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(4,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(2,3,3),(4,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(1,2,2),(4,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(3,6,7),(4,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,9),(2,4,5),(5,10,13)); lvl=2; h,r-ind=1,1
    [4,3]((3,6,7),(3,7,9),(3,8,9),(2,4,5)); lvl=2; h,r-ind=1,1
      [4,3]((2,4,5),(9,20,24),(2,5,6),(3,7,9)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,5,6),(4,9,11),(9,20,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(4,9,11),(9,20,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(2,5,6),(4,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,9),(4,9,11)); lvl=4; h,r-ind=1,1
      [4,3]((5,11,13),(9,20,24),(2,5,6),(3,7,8)); lvl=3; h,r-ind=1,1
        [3,3]((7,16,19),(2,5,6),(9,20,24)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(7,16,19),(9,20,24)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(7,16,19),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,19),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(3,8,9),(3,7,8)); lvl=3; h,r-ind=1,1
      [4,3]((2,4,5),(3,6,7),(5,11,13),(9,20,24)); lvl=3; h,r-ind=1,1
        [3,3]((7,15,18),(3,6,7),(5,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((9,20,24),(7,15,18),(5,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(9,20,24),(7,15,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(7,15,18),(3,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,7),(5,11,13),(3,7,8)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(3,6,7),(1,2,2),(3,8,9)); lvl=2; h,r-ind=1,1
      [4,3]((4,9,10),(6,14,15),(1,2,2),(3,6,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,2),(5,11,12),(6,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,10),(5,11,12),(6,14,15)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((3,6,7),(4,9,10),(5,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,7),(1,2,2),(5,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,8),(4,9,10),(3,6,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(3,7,8),(4,9,10),(6,14,15)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,8),(5,12,13),(4,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,15),(5,12,13),(4,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(6,14,15),(5,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(3,7,8),(5,12,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(3,8,9),(3,7,8)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,3,3),(6,14,15),(1,2,2)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((1,3,3),(2,5,5),(6,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,5,5),(6,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,3,3),(2,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(0,1,0),(2,5,5)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,0),(3,4,5),(4,7,9),(6,11,15)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(4,7,9),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,4),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(5,9,12),(4,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(6,11,15),(5,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,4),(6,11,15)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,3),(1,1,1),(3,4,5),(4,7,9)); lvl=1; h,r-ind=1,1
    [3,3]((6,9,11),(1,1,1),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(6,9,11),(3,4,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,5,6),(4,7,9),(6,9,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((3,5,6),(2,3,3),(6,9,11),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,3),(4,6,7),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,11),(4,6,7),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(2,3,3),(4,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,11),(3,5,6),(4,6,7)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(3,4,5)); lvl=1; h,r-ind=1,1
```

18.49 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,17,18)); lvl=0; h,r-ind=18,54
  [3,3]((2,3,3),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((6,17,18),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(6,17,18),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(2,3,3),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((6,17,18),(1,3,3),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

18.50 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,7,18)); lvl=0; h,r-ind=18,324
  [3,3]((1,0,0),(3,3,7),(2,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((7,7,18),(1,0,0),(2,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,7),(2,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((7,7,18),(0,1,0),(2,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,7),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,7),(1,1,2)); lvl=1; h,r-ind=1,1
```

18.51 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,9,18)); lvl=0; h,r-ind=18,36
  [3,3]((1,1,2),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((3,5,7),(1,2,2),(1,1,2),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,4),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,7),(2,3,4),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,5,7),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,7),(2,3,5),(5,6,12),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,7),(2,3,5),(5,6,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,7),(1,1,2),(5,6,12)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((3,5,7),(3,4,7),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,7),(3,4,7),(2,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((7,9,18),(2,3,5),(5,6,12)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(3,5,7),(2,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((7,9,18),(0,1,0),(2,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,5,7),(1,2,2)); lvl=1; h,r-ind=1,1
```

18.52 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,10,18)); lvl=0; h,r-ind=18,162
  [5,3]((5,5,8),(2,2,3),(4,5,7),(3,4,6),(9,11,18)); lvl=1; h,r-ind=1,1
    [4,3]((4,5,8),(6,7,11),(5,6,9),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,9),(6,7,11),(9,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(6,7,11),(9,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(4,5,8),(9,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,6,9),(9,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,7),(5,6,9),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(4,5,7),(5,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(6,7,11),(19,21,33),(5,6,9)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((8,9,14),(19,21,33),(6,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,9),(8,9,14),(6,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(5,6,9),(8,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(8,9,14),(19,21,33)); lvl=3; h,r-ind=1,1
    [5,3]((11,12,19),(4,5,8),(7,8,13),(6,7,11),(19,21,33)); lvl=2; h,r-ind=1,1
      [4,3]((15,17,27),(17,19,30),(9,10,16),(11,12,19)); lvl=3; h,r-ind=1,1
        [3,3]((17,19,30),(11,12,19),(26,29,46)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,16),(11,12,19),(26,29,46)); lvl=4; h,r-ind=1,1
        [3,3]((15,17,27),(9,10,16),(26,29,46)); lvl=4; h,r-ind=1,1
        [3,3]((15,17,27),(17,19,30),(26,29,46)); lvl=4; h,r-ind=1,1
      [3,3]((17,19,30),(19,21,33),(11,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,11),(17,19,30),(19,21,33)); lvl=3; h,r-ind=1,1
      [4,3]((6,7,11),(25,29,46),(15,17,27),(17,19,30)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((21,24,38),(25,29,46),(15,17,27)); lvl=4; h,r-ind=1,1
        [3,3]((17,19,30),(21,24,38),(15,17,27)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,11),(17,19,30),(21,24,38)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,11),(21,24,38),(25,29,46)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(6,7,11),(25,29,46)); lvl=3; h,r-ind=1,1
      [5,3]((4,5,8),(25,29,46),(15,17,27),(7,8,13),(9,10,16)); lvl=3; h,r-ind=1,1
        [3,3]((9,10,16),(15,17,27),(28,32,51)); lvl=4; h,r-ind=1,1
        [4,3]((19,22,35),(32,37,59),(15,17,27),(28,32,51)); lvl=4; h,r-ind=1,1
          [3,3]((32,37,59),(28,32,51),(47,54,86)); lvl=5; h,r-ind=1,1
          [3,3]((15,17,27),(28,32,51),(47,54,86)); lvl=5; h,r-ind=1,1
          [3,3]((19,22,35),(32,37,59),(47,54,86)); lvl=5; h,r-ind=1,1
          [3,3]((15,17,27),(19,22,35),(47,54,86)); lvl=5; h,r-ind=1,1
        [3,3]((19,22,35),(25,29,46),(15,17,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(19,22,35),(25,29,46)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(19,22,35),(32,37,59)); lvl=4; h,r-ind=1,1
        [4,3]((13,15,24),(32,37,59),(9,10,16),(28,32,51)); lvl=4; h,r-ind=1,1
          [3,3]((32,37,59),(28,32,51),(41,47,75)); lvl=5; h,r-ind=1,1
          [3,3]((9,10,16),(28,32,51),(41,47,75)); lvl=5; h,r-ind=1,1
          [3,3]((13,15,24),(32,37,59),(41,47,75)); lvl=5; h,r-ind=1,1
          [3,3]((9,10,16),(13,15,24),(41,47,75)); lvl=5; h,r-ind=1,1
        [3,3]((13,15,24),(7,8,13),(9,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(13,15,24),(7,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(13,15,24),(32,37,59)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,8),(9,11,18),(7,8,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(5,5,8),(11,12,19),(19,21,33)); lvl=2; h,r-ind=1,1
      [3,3]((13,14,22),(5,5,8),(11,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((19,21,33),(13,14,22),(11,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(19,21,33),(13,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(13,14,22),(5,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((5,5,8),(11,12,19),(7,8,13)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((5,7,12),(2,3,5),(4,6,9),(3,4,6),(9,11,18)); lvl=1; h,r-ind=1,1
    [3,3]((5,7,11),(4,6,9),(3,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((6,8,13),(5,7,11),(4,5,8),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((9,12,19),(3,4,6),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,13),(9,12,19),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(9,12,19),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,13),(4,5,8),(9,12,19)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,5),(19,26,43),(6,8,13),(5,7,11)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((19,26,43),(8,11,18),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(8,11,18),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,7,11),(8,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(19,26,43),(8,11,18)); lvl=3; h,r-ind=1,1
    [5,3]((11,15,25),(19,26,43),(6,8,13),(4,5,8),(7,9,15)); lvl=2; h,r-ind=1,1
      [3,3]((6,8,13),(4,5,8),(25,33,54)); lvl=3; h,r-ind=1,1
      [5,3]((9,12,20),(15,20,33),(7,9,15),(4,5,8),(25,33,54)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((15,20,33),(25,33,54),(19,25,41)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(25,33,54),(19,25,41)); lvl=4; h,r-ind=1,1
      [4,3]((15,20,33),(32,42,69),(28,37,61),(19,25,41)); lvl=4; h,r-ind=1,1
        [3,3]((47,62,102),(28,37,61),(32,42,69)); lvl=5; h,r-ind=1,1
        [3,3]((19,25,41),(47,62,102),(32,42,69)); lvl=5; h,r-ind=1,1
        [3,3]((15,20,33),(19,25,41),(47,62,102)); lvl=5; h,r-ind=1,1
        [3,3]((15,20,33),(47,62,102),(28,37,61)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,8),(32,42,69),(19,25,41)); lvl=4; h,r-ind=1,1
      [4,3]((9,12,20),(32,42,69),(13,17,28),(28,37,61)); lvl=4; h,r-ind=1,1
        [3,3]((13,17,28),(32,42,69),(41,54,89)); lvl=5; h,r-ind=1,1
        [3,3]((28,37,61),(32,42,69),(41,54,89)); lvl=5; h,r-ind=1,1
        [3,3]((9,12,20),(13,17,28),(41,54,89)); lvl=5; h,r-ind=1,1
        [3,3]((28,37,61),(9,12,20),(41,54,89)); lvl=5; h,r-ind=1,1
      [3,3]((9,12,20),(13,17,28),(7,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(13,17,28),(7,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(32,42,69),(13,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((9,12,20),(15,20,33),(28,37,61)); lvl=4; h,r-ind=1,1
    [4,3]((11,15,25),(17,23,38),(9,12,20),(15,20,33)); lvl=3; h,r-ind=1,1
      [3,3]((15,20,33),(9,12,20),(26,35,58)); lvl=4; h,r-ind=1,1
      [3,3]((11,15,25),(9,12,20),(26,35,58)); lvl=4; h,r-ind=1,1
      [3,3]((17,23,38),(11,15,25),(26,35,58)); lvl=4; h,r-ind=1,1
      [3,3]((17,23,38),(15,20,33),(26,35,58)); lvl=4; h,r-ind=1,1
    [3,3]((19,26,43),(11,15,25),(17,23,38)); lvl=3; h,r-ind=1,1
    [4,3]((17,23,38),(15,20,33),(6,8,13),(25,33,54)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((21,28,46),(15,20,33),(25,33,54)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,13),(21,28,46),(25,33,54)); lvl=4; h,r-ind=1,1
      [3,3]((17,23,38),(21,28,46),(15,20,33)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,13),(17,23,38),(21,28,46)); lvl=4; h,r-ind=1,1
    [3,3]((19,26,43),(17,23,38),(6,8,13)); lvl=3; h,r-ind=1,1
  [3,3]((4,5,8),(9,11,18),(7,9,15)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,12),(11,15,25),(7,9,15)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,3,5),(5,7,11),(4,6,9)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,5),(5,7,12),(11,15,25),(19,26,43)); lvl=2; h,r-ind=1,1
    [3,3]((13,18,30),(5,7,12),(11,15,25)); lvl=3; h,r-ind=1,1
    [3,3]((19,26,43),(13,18,30),(11,15,25)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(19,26,43),(13,18,30)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(13,18,30),(5,7,12)); lvl=3; h,r-ind=1,1
[3,3]((7,10,18),(5,7,12),(2,3,5)); lvl=1; h,r-ind=1,1
[3,3]((3,5,7),(2,3,5),(4,6,9)); lvl=1; h,r-ind=1,1
[3,3]((0,1,0),(3,5,7),(2,3,5)); lvl=1; h,r-ind=1,1
[3,3]((7,10,18),(0,1,0),(2,3,5)); lvl=1; h,r-ind=1,1
[5,3]((4,5,9),(5,7,12),(1,0,0),(5,5,8),(9,11,18)); lvl=1; h,r-ind=1,1
  [4,3]((8,9,15),(7,8,13),(7,9,15),(9,11,18)); lvl=2; h,r-ind=1,1
    [3,3]((21,25,41),(7,8,13),(9,11,18)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,10),(7,9,15),(21,25,41),(9,11,18)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((14,17,28),(9,11,18),(7,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,10),(14,17,28),(7,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((21,25,41),(14,17,28),(9,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,10),(21,25,41),(14,17,28)); lvl=4; h,r-ind=1,1
    [3,3]((5,6,10),(21,25,41),(7,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,10),(8,9,15),(7,8,13)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,7),(5,7,12),(8,9,15),(7,9,15)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,10),(5,7,12),(13,17,29),(7,9,15)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,7,12),(10,13,22),(13,17,29)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,10),(10,13,22),(13,17,29)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,15),(5,7,12),(10,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,10),(7,9,15),(10,13,22)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,7),(5,6,10),(13,17,29)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,7),(5,6,10),(8,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,7),(5,7,12),(13,17,29)); lvl=3; h,r-ind=1,1
  [4,3]((3,3,5),(8,9,15),(5,5,8),(7,8,13)); lvl=2; h,r-ind=1,1
    [3,3]((8,9,15),(7,8,13),(10,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((5,5,8),(7,8,13),(10,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,5),(8,9,15),(10,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((5,5,8),(3,3,5),(10,11,18)); lvl=3; h,r-ind=1,1
  [3,3]((3,3,5),(1,0,0),(5,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((7,7,12),(3,3,5),(1,0,0)); lvl=2; h,r-ind=1,1
  [4,3]((4,5,9),(3,4,7),(7,7,12),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,7),(7,7,12),(4,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(7,7,12),(4,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,9),(3,4,7),(4,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(4,5,9),(4,4,7)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,7),(7,7,12),(3,3,5),(8,9,15)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,12),(3,3,5),(7,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,7),(6,7,12),(7,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((8,9,15),(6,7,12),(3,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,7),(8,9,15),(6,7,12)); lvl=3; h,r-ind=1,1
[3,3]((7,10,18),(4,5,9),(5,7,12)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((1,0,0),(5,5,8),(2,2,3)); lvl=1; h,r-ind=1,1
[4,3]((1,0,0),(2,3,3),(2,2,3),(4,5,7)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((5,6,8),(3,4,5),(4,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(5,6,8),(8,9,12),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((7,8,11),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(7,8,11),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,7),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(7,8,11),(8,9,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(1,0,0),(2,2,3),(8,9,12)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,12),(2,2,3),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(8,9,12),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(5,6,8),(8,9,12),(3,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,9),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(6,7,9),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(6,7,9),(8,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(3,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [6,3]((3,5,7),(1,2,2),(4,6,9),(2,3,3),(4,5,7),(3,4,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(4,5,7),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,9),(2,3,4),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,7),(4,6,9),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,5),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(2,3,3),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,4),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,7),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,5,7),(1,2,2)); lvl=1; h,r-ind=1,1
```

18.53 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,14,18)); lvl=0; h,r-ind=18,162
  [4,3]((3,5,6),(4,7,8),(3,6,7),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,8),(3,6,7),(6,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,6,7),(6,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,7,8),(6,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,5,6),(6,11,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,5,6),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,7,9),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((7,14,18),(4,7,9),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,6,7),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((7,14,18),(0,1,0),(2,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,1),(3,5,6),(4,7,8),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,6),(4,7,8),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(4,7,8),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,5,6),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(5,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(3,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(4,7,8),(3,6,7),(2,3,3)); lvl=1; h,r-ind=1,4
    [3,3]((1,2,2),(3,6,7),(4,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(4,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(3,6,7)); lvl=2; h,r-ind=1,1
```

18.54 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,16,18)); lvl=0; h,r-ind=18,162
  [4,3]((5,10,11),(5,11,12),(6,12,13),(4,9,10)); lvl=1; h,r-ind=1,1
    [3,3]((10,21,23),(6,12,13),(5,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,10),(10,21,23),(5,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,11),(4,9,10),(10,21,23)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,11),(10,21,23),(6,12,13)); lvl=2; h,r-ind=1,1
  [4,3]((7,16,17),(6,14,15),(5,11,12),(4,9,10)); lvl=1; h,r-ind=1,1
    [3,3]((6,14,15),(4,9,10),(11,25,27)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,12),(4,9,10),(11,25,27)); lvl=2; h,r-ind=1,1
    [3,3]((7,16,17),(6,14,15),(11,25,27)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,12),(7,16,17),(11,25,27)); lvl=2; h,r-ind=1,1
  [3,3]((7,16,18),(6,14,15),(4,9,10)); lvl=1; h,r-ind=1,1
  [4,3]((7,16,18),(4,8,9),(5,10,11),(4,9,10)); lvl=1; h,r-ind=1,1
    [3,3]((4,8,9),(5,10,11),(8,17,19)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,10),(5,10,11),(8,17,19)); lvl=2; h,r-ind=1,1
    [3,3]((7,16,18),(4,9,10),(8,17,19)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((7,16,18),(4,8,9),(8,17,19)); lvl=2; h,r-ind=1,1
  [4,3]((5,10,11),(1,1,1),(2,3,3),(6,12,13)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(7,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,11),(1,1,1),(7,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((6,12,13),(5,10,11),(7,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((6,12,13),(2,3,3),(7,13,14)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,2),(5,11,12),(2,3,3),(6,12,13)); lvl=1; h,r-ind=1,1
    [3,3]((5,11,12),(6,12,13),(7,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(6,12,13),(7,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(5,11,12),(7,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(7,14,15)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((7,16,17),(3,7,7),(1,2,2),(5,11,12)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,7),(1,2,2),(8,18,19)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,12),(1,2,2),(8,18,19)); lvl=2; h,r-ind=1,1
    [3,3]((7,16,17),(3,7,7),(8,18,19)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,12),(7,16,17),(8,18,19)); lvl=2; h,r-ind=1,1
  [4,3]((7,16,17),(3,7,7),(2,5,5),(6,14,15)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,7),(2,5,5),(9,21,22)); lvl=2; h,r-ind=1,1
    [3,3]((6,14,15),(2,5,5),(9,21,22)); lvl=2; h,r-ind=1,1
    [3,3]((7,16,17),(3,7,7),(9,21,22)); lvl=2; h,r-ind=1,1
    [3,3]((6,14,15),(7,16,17),(9,21,22)); lvl=2; h,r-ind=1,1
  [3,3]((7,16,18),(2,5,5),(6,14,15)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,7,7),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((7,16,18),(0,1,0),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,7,7),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(4,8,9),(5,10,11),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((5,9,10),(4,8,9),(5,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,10),(1,1,1),(5,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(5,9,10),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(5,9,10),(4,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
```

18.55 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,17,18)); lvl=0; h,r-ind=18,324
  [3,3]((0,1,0),(2,5,5),(3,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((7,17,18),(2,5,5),(3,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(3,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((7,17,18),(1,2,2),(3,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((7,17,18),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(7,17,18),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((7,17,18),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,17,18),(0,1,0),(2,5,5)); lvl=1; h,r-ind=1,1
```

18.56 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,9,18)); lvl=0; h,r-ind=18,18
  [3,3]((1,1,2),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,2),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(4,5,9),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(8,9,18),(4,5,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,5,9),(1,2,2)); lvl=1; h,r-ind=1,1
```

18.57 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,15,18)); lvl=0; h,r-ind=18,54
  [4,3]((5,8,9),(6,10,11),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(6,10,11),(7,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,9),(6,10,11),(7,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(5,8,9),(7,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(7,11,12)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,2),(5,9,10),(6,10,11),(2,3,3)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((5,9,10),(6,10,11),(7,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(6,10,11),(7,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(5,9,10),(7,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(7,12,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,2),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((4,8,9),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,13,15),(1,2,2),(5,9,10)); lvl=1; h,r-ind=1,1
  [4,3]((8,15,18),(7,13,15),(4,8,9),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((9,17,20),(4,8,9),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((7,13,15),(9,17,20),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((8,15,18),(7,13,15),(9,17,20)); lvl=2; h,r-ind=1,1
    [3,3]((8,15,18),(9,17,20),(4,8,9)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,6),(1,0,0),(5,8,9),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,7),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,9),(4,6,7),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(5,8,9),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,6,7),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [6,3]((7,13,15),(3,5,6),(6,11,13),(5,9,10),(5,8,9),(6,10,11)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,8),(5,8,9),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,13),(4,7,8),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((7,13,15),(6,11,13),(4,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(6,10,11),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(5,9,10),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((7,13,15),(4,7,8),(5,9,10)); lvl=2; h,r-ind=1,1
  [3,3]((8,15,18),(3,5,6),(6,11,13)); lvl=1; h,r-ind=1,1
  [3,3]((8,15,18),(7,13,15),(6,11,13)); lvl=1; h,r-ind=1,1
```

18.58 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,17,18)); lvl=0; h,r-ind=18,162
  [3,3]((8,17,18),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((8,17,18),(4,9,9),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,9,9),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((8,17,18),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((8,17,18),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
```

18.59 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,10,18)); lvl=0; h,r-ind=18,18
  [3,3]((1,0,0),(5,5,8),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((9,11,18),(0,1,0),(5,5,8),(1,1,1)); lvl=1; h,r-ind=3,1
    [4,3]((5,7,10),(0,1,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,9),(1,1,1),(2,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,4),(3,5,6),(6,7,9),(2,2,3)); lvl=3; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(6,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(7,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(2,3,4),(7,9,12)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,4),(3,5,6),(3,4,5),(7,9,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,7,9),(3,4,5),(3,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,4),(5,7,9),(3,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((7,9,12),(5,7,9),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,4),(7,9,12),(5,7,9)); lvl=5; h,r-ind=1,1
      [3,3]((5,7,10),(2,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,6),(6,7,9),(0,1,0),(1,1,1)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((3,4,5),(6,8,9),(1,1,1),(6,7,9)); lvl=4; h,r-ind=1,3
          [3,3]((1,1,1),(6,8,9),(4,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,5),(6,8,9),(4,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,9),(1,1,1),(4,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,5),(6,7,9),(4,5,6)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,2),(6,8,9),(0,1,0),(1,1,1)); lvl=4; h,r-ind=1,3
          [3,3]((1,1,1),(2,3,3),(6,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(2,3,3),(6,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,5),(1,2,2),(6,8,9)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,4,5),(3,5,6),(1,2,2)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,8),(5,7,10),(2,2,3)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((4,5,8),(7,8,13),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((7,8,13),(5,5,8),(2,2,3)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((9,11,18),(4,5,8),(7,8,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(5,5,8),(5,5,9)); lvl=1; h,r-ind=5,5; optimized-h
  [4,3]((9,11,18),(9,10,18),(5,5,8),(5,5,9)); lvl=1; h,r-ind=1,1
    [4,3]((13,15,26),(9,10,18),(7,7,12),(5,5,9)); lvl=2; h,r-ind=1,1
      [4,3]((9,10,18),(15,17,30),(5,5,9),(4,4,7)); lvl=3; h,r-ind=1,1
        [3,3]((17,18,32),(4,4,7),(5,5,9)); lvl=4; h,r-ind=1,1
        [4,3]((9,10,18),(8,9,16),(17,18,32),(5,5,9)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((8,9,16),(17,18,32),(13,14,25)); lvl=5; h,r-ind=1,1
          [3,3]((5,5,9),(17,18,32),(13,14,25)); lvl=5; h,r-ind=1,1
          [3,3]((9,10,18),(8,9,16),(13,14,25)); lvl=5; h,r-ind=1,1
          [3,3]((5,5,9),(9,10,18),(13,14,25)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,16),(17,18,32),(4,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((15,17,30),(8,9,16),(4,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,14),(15,17,30),(4,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,14),(10,11,19),(4,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((10,11,19),(7,7,12),(4,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((13,15,26),(7,8,14),(10,11,19)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,10),(13,15,26),(7,7,12),(3,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,12),(10,11,19),(13,15,26)); lvl=3; h,r-ind=1,1
      [4,3]((6,7,12),(22,24,41),(13,14,24),(10,11,19)); lvl=3; h,r-ind=1,1
        [3,3]((19,21,36),(13,14,24),(22,24,41)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,12),(19,21,36),(22,24,41)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,19),(19,21,36),(13,14,24)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,12),(10,11,19),(19,21,36)); lvl=4; h,r-ind=1,1
      [3,3]((13,14,24),(7,7,12),(10,11,19)); lvl=3; h,r-ind=1,1
      [4,3]((22,24,41),(13,14,24),(3,3,5),(7,7,12)); lvl=3; h,r-ind=1,1
        [3,3]((16,17,29),(7,7,12),(3,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((22,24,41),(16,17,29),(3,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((16,17,29),(13,14,24),(7,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((22,24,41),(16,17,29),(13,14,24)); lvl=4; h,r-ind=1,1
      [4,3]((5,6,10),(6,7,12),(22,24,41),(3,3,5)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((6,7,12),(22,24,41),(9,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,5),(22,24,41),(9,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,10),(3,3,5),(9,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,10),(6,7,12),(9,10,17)); lvl=4; h,r-ind=1,1
    [3,3]((5,6,10),(7,8,13),(3,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((7,8,13),(5,5,8),(3,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((9,11,18),(5,6,10),(7,8,13)); lvl=2; h,r-ind=1,1
```

18.60 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,14,18)); lvl=0; h,r-ind=18,18
  [3,3]((1,0,0),(5,7,9),(4,5,6)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((9,14,18),(8,13,16),(5,7,9),(4,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,5),(6,9,11),(4,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,10),(3,4,5),(6,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((8,13,16),(5,8,10),(6,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,10),(12,19,24),(3,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((9,14,18),(5,7,9),(12,19,24),(3,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((15,22,28),(3,4,5),(5,7,9)); lvl=3; h,r-ind=1,1
      [4,3]((9,14,18),(7,11,14),(15,22,28),(5,7,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,11,14),(15,22,28),(12,18,23)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,9),(15,22,28),(12,18,23)); lvl=4; h,r-ind=1,1
        [3,3]((9,14,18),(7,11,14),(12,18,23)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,9),(9,14,18),(12,18,23)); lvl=4; h,r-ind=1,1
      [3,3]((7,11,14),(15,22,28),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((12,19,24),(7,11,14),(3,4,5)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,2),(1,1,1),(8,13,16),(4,5,6)); lvl=1; h,r-ind=1,1
    [4,3]((7,10,12),(11,16,19),(1,1,1),(4,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(11,16,19),(8,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,12),(11,16,19),(8,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,12),(4,5,6),(8,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(1,1,1),(8,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((6,9,11),(7,10,12),(4,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,6),(6,9,11),(7,10,12),(11,16,19)); lvl=2; h,r-ind=1,1
      [3,3]((6,9,11),(10,15,18),(7,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((11,16,19),(10,15,18),(7,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(11,16,19),(10,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(6,9,11),(10,15,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,6),(8,13,16),(6,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(3,5,6),(11,16,19),(1,1,1)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((4,6,7),(3,5,6),(11,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(1,1,1),(11,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,6,7),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,6,7),(3,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(1,0,0),(4,5,6)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
```

18.61 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,16,18)); lvl=0; h,r-ind=18,18
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((5,8,9),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((6,11,12),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((5,8,9),(9,16,18),(6,11,12),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(5,9,10),(6,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(11,18,20),(5,9,10)); lvl=2; h,r-ind=1,1
    [4,3]((5,8,9),(11,18,20),(9,16,18),(5,9,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((10,17,19),(5,9,10),(11,18,20)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,9),(10,17,19),(11,18,20)); lvl=3; h,r-ind=1,1
      [3,3]((9,16,18),(10,17,19),(5,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,9),(9,16,18),(10,17,19)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,9),(1,1,1),(11,18,20)); lvl=2; h,r-ind=1,1
```

18.62 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,17,18)); lvl=0; h,r-ind=18,36
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((9,17,18),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((9,17,18),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
```

18.63 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,15,18)); lvl=0; h,r-ind=18,54
  [4,3]((11,15,18),(1,1,1),(5,7,8),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((14,18,21),(9,12,14),(1,1,1),(5,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((9,12,14),(10,13,15),(5,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(10,13,15),(5,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((14,18,21),(9,12,14),(10,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(14,18,21),(10,13,15)); lvl=3; h,r-ind=1,1
    [3,3]((8,11,13),(9,12,14),(5,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((8,11,13),(4,5,6),(14,18,21),(9,12,14)); lvl=2; h,r-ind=1,1
      [3,3]((13,17,20),(4,5,6),(14,18,21)); lvl=3; h,r-ind=1,1
      [3,3]((13,17,20),(9,12,14),(14,18,21)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,13),(13,17,20),(9,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,13),(13,17,20),(4,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((8,11,13),(11,15,18),(4,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,6),(14,18,21),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((14,18,21),(5,6,7),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(5,6,7),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(1,0,0),(5,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(14,18,21),(5,6,7)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(1,1,1),(5,7,8)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(5,8,8)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((10,15,18),(11,15,18),(4,6,7),(5,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((5,7,8),(8,11,13),(12,17,20)); lvl=2; h,r-ind=1,1
    [4,3]((7,10,12),(23,33,39),(8,11,13),(12,17,20)); lvl=2; h,r-ind=1,1
      [3,3]((23,33,39),(19,27,32),(12,17,20)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,13),(19,27,32),(12,17,20)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,12),(23,33,39),(19,27,32)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,13),(7,10,12),(19,27,32)); lvl=3; h,r-ind=1,1
    [3,3]((7,10,12),(11,15,18),(8,11,13)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,7),(23,33,39),(5,7,8),(12,17,20)); lvl=2; h,r-ind=1,1
      [3,3]((23,33,39),(12,17,20),(16,23,27)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,8),(12,17,20),(16,23,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(5,7,8),(16,23,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(23,33,39),(16,23,27)); lvl=3; h,r-ind=1,1
    [4,3]((10,15,18),(7,10,12),(4,6,7),(23,33,39)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((11,16,19),(23,33,39),(7,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((10,15,18),(11,16,19),(7,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((11,16,19),(4,6,7),(23,33,39)); lvl=3; h,r-ind=1,1
      [3,3]((10,15,18),(11,16,19),(4,6,7)); lvl=3; h,r-ind=1,1
```

```
  [4,3]((2,3,3),(5,8,8),(4,6,7),(5,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,7),(6,9,10),(5,8,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(6,9,10),(5,8,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(5,7,8),(6,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,8),(4,6,7),(6,9,10)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(5,8,9),(5,8,8),(4,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((8,13,14),(5,8,9),(4,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,5),(8,13,14),(7,12,12),(4,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((7,12,12),(8,13,14),(11,18,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(8,13,14),(11,18,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,5),(7,12,12),(11,18,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(3,5,5),(11,18,19)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,8),(3,5,5),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,5,5),(7,12,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,8),(0,1,0),(3,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(8,13,14),(7,12,12),(5,8,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,12,12),(4,7,7),(8,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,9),(4,7,7),(8,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(5,8,9),(4,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(7,12,12),(4,7,7)); lvl=3; h,r-ind=1,1
  [3,3]((10,15,18),(5,8,9),(4,6,7)); lvl=1; h,r-ind=1,1
```

18.64 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,17,18)); lvl=0; h,r-ind=18,162
  [3,3]((0,1,0),(5,8,8),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((10,17,18),(5,8,8),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(10,17,18),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,9,9),(5,8,8)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((10,17,18),(5,9,9),(5,8,8)); lvl=1; h,r-ind=5,5; optimized-h
```

18.65 Resolved

```
[3,3]((1,0,0),(0,1,0),(12,17,18)); lvl=0; h,r-ind=18,54
  [3,3]((12,17,18),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((12,17,18),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
```

18.66 Resolved

```
[3,3]((1,0,0),(0,1,0),(14,15,18)); lvl=0; h,r-ind=18,54
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,6),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,6),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,6),(9,10,11),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((12,13,15),(9,10,11),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((14,15,18),(5,5,6),(12,13,15),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((5,5,6),(15,16,19),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((12,13,15),(15,16,19),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((14,15,18),(5,5,6),(15,16,19)); lvl=2; h,r-ind=1,1
    [3,3]((12,13,15),(14,15,18),(15,16,19)); lvl=2; h,r-ind=1,1
  [6,3]((5,6,6),(4,5,5),(7,8,9),(12,13,15),(11,12,14),(9,10,11)); lvl=1; h,r-ind=1,1
    [3,3]((8,9,10),(7,8,9),(4,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,6),(8,9,10),(4,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,6),(9,10,11),(8,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((11,12,14),(8,9,10),(7,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((11,12,14),(8,9,10),(12,13,15)); lvl=2; h,r-ind=1,1
    [3,3]((9,10,11),(8,9,10),(12,13,15)); lvl=2; h,r-ind=1,1
  [3,3]((14,15,18),(7,8,9),(11,12,14)); lvl=1; h,r-ind=1,1
  [3,3]((14,15,18),(12,13,15),(11,12,14)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,6),(4,5,5),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,5),(7,8,9),(0,1,0)); lvl=1; h,r-ind=1,1
```

18.67 Resolved

```
[3,3]((1,0,0),(0,1,0),(14,17,18)); lvl=0; h,r-ind=18,162
  [3,3]((5,6,6),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((14,17,18),(5,6,6),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(14,17,18),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((7,9,9),(5,6,6),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((14,17,18),(7,9,9),(5,6,6)); lvl=1; h,r-ind=3,3; optimized-h
```

18.68 Resolved

```
[3,3]((1,0,0),(0,1,0),(15,16,18)); lvl=0; h,r-ind=18,54
  [3,3]((8,8,9),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((15,16,18),(8,8,9),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((15,16,18),(15,17,18),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(15,17,18),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
```

18.69 Resolved

```
[3,3]((1,0,0),(0,1,0),(15,17,18)); lvl=0; h,r-ind=18,108
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((15,17,18),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,6),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((15,17,18),(5,6,6),(1,1,1)); lvl=1; h,r-ind=1,1
```

18.70 Resolved

```
[3,3]((1,0,0),(0,1,0),(16,17,18)); lvl=0; h,r-ind=18,162
  [3,3]((16,17,18),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((16,17,18),(8,9,9),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(8,9,9),(1,1,1)); lvl=1; h,r-ind=1,1
```

18.71 Resolved

```
[3,3]((1,0,0),(0,1,0),(17,17,18)); lvl=0; h,r-ind=18,324
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((17,17,18),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((17,17,18),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

18.72 Resolved

```
[3,3]((1,0,0),(1,3,0),(1,0,6)); lvl=0; h,r-ind=18,6
  [4,3]((2,3,3),(1,0,0),(2,3,0),(1,0,3)); lvl=1; h,r-ind=9,3
    [4,3]((2,0,3),(1,1,1),(1,1,0),(1,0,0)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(1,1,0),(3,2,2)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,1),(1,0,0),(1,1,0),(3,2,2)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,0,0),(2,1,1),(1,1,0)); lvl=4; h,r-ind=1,1
        [3,3]((3,2,2),(2,1,1),(1,1,0)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,1),(3,2,2),(2,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,1),(1,0,0),(2,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,1),(1,1,1),(3,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,1),(2,0,3),(1,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((4,6,3),(1,1,1),(2,3,0),(1,1,0)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,2),(1,1,0),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,1),(4,5,2),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,1),(4,6,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,1),(4,5,2),(2,3,0),(1,1,0)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,1,0),(4,5,2),(3,4,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,1),(4,5,2),(3,4,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,0),(1,1,0),(3,4,1)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,3,1),(2,3,0),(3,4,1)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,3),(2,0,3),(1,1,1),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,2),(2,0,3),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,2),(3,2,5),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,2,5),(1,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,3),(1,0,2),(1,1,2),(3,2,5)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,0,2),(3,2,5),(2,1,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(3,2,5),(2,1,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,3),(1,0,2),(2,1,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,0,3),(2,1,4)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,3),(4,6,3),(1,1,1),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,2),(4,6,3),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,2),(4,5,5),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(4,5,5),(1,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,2),(2,3,3),(1,1,2),(4,5,5)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,4),(2,3,3),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,5),(3,4,4),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,2),(4,5,5),(3,4,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,2),(3,4,4),(2,3,3)); lvl=4; h,r-ind=1,1
[4,3]((1,0,6),(2,3,6),(2,3,3),(1,0,3)); lvl=1; h,r-ind=9,3
  [4,3]((1,1,3),(2,3,3),(1,1,2),(4,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(1,1,2),(4,5,9),(2,3,3)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,2),(4,5,9),(3,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(4,5,9),(3,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,3),(1,1,2),(3,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,4),(4,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,2),(4,5,9)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,4),(2,3,6),(1,1,3),(4,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,5),(4,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,5),(4,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,4),(4,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,4),(2,3,6),(2,3,5),(4,5,12)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,9),(2,3,6),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,12),(3,4,9),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(4,5,12),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(3,4,9),(2,3,6)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,6),(2,0,9),(1,1,4),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,4),(3,2,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,6),(1,0,5),(1,1,4),(3,2,12)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,1,9),(1,0,5),(3,2,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,1,9),(1,1,4),(3,2,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,6),(2,1,9),(1,1,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,6),(2,1,9),(1,0,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,5),(1,1,3),(3,2,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,5),(2,0,9),(1,1,3)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,3),(2,0,9),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,4),(2,0,9),(1,1,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,4),(3,2,9),(1,1,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,2,9),(1,1,3)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,3),(1,0,4),(1,1,2),(3,2,9)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,0,4),(3,2,9),(2,1,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(3,2,9),(2,1,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,3),(1,0,4),(2,1,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,0,3),(2,1,6)); lvl=4; h,r-ind=1,1
[3,3]((1,3,0),(2,3,6),(2,3,3)); lvl=1; h,r-ind=9,3; optimized-h
[3,3]((1,3,0),(2,3,3),(2,3,0)); lvl=1; h,r-ind=9,3; optimized-h
```

18.73 Resolved

```
[3,3]((1,0,0),(1,3,0),(2,3,6)); lvl=0; h,r-ind=18,12
  [3,3]((2,3,3),(1,3,0),(2,3,0)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((1,0,0),(2,3,3),(2,3,0)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((1,0,0),(1,1,2),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,3,3),(1,2,2),(1,3,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,3,5),(2,3,3),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,1,2),(2,3,5),(2,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,3,6),(2,3,5),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(2,3,6),(2,3,5)); lvl=1; h,r-ind=1,1
```

18.74 Resolved

```
[3,3]((1,0,0),(1,3,0),(4,3,6)); lvl=0; h,r-ind=18,12
```

```
  [3,3]((1,0,0),(5,3,6),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,3,6),(5,3,6),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,3,6),(5,6,6),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,3,0),(5,6,6),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(2,3,0),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,3,0),(2,3,0),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
```

18.75 Resolved

```
[3,3]((1,0,0),(1,3,0),(5,0,6)); lvl=0; h,r-ind=18,6
  [4,3]((1,0,1),(2,2,1),(1,0,0),(2,3,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,2,1),(2,3,0),(1,1,0),(4,3,2)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,0),(1,1,0),(3,3,1)); lvl=3; h,r-ind=1,1
      [3,3]((4,3,2),(1,1,0),(3,3,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,1),(4,3,2),(3,3,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,1),(2,3,0),(3,3,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,1),(1,1,0),(4,3,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,1),(1,0,0),(1,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,1),(2,2,1),(4,3,2)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,0),(2,2,1),(3,3,2),(2,3,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,2,1),(3,3,2),(4,5,2),(7,9,3)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,3),(3,3,2),(4,5,2)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,3),(6,7,3),(4,5,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,1),(7,9,3),(6,7,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,1),(6,7,3),(3,3,2)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,0),(2,3,1),(4,5,2),(7,9,3)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,2),(2,3,1),(4,5,2)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,2),(7,9,3),(4,5,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,0),(5,7,2),(7,9,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,0),(5,7,2),(2,3,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,0),(1,3,0),(2,3,1)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,0),(1,2,0),(2,2,1),(7,9,3)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,4,1),(1,2,0),(7,9,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,1),(2,2,1),(7,9,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,0),(3,4,1),(2,2,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,0),(3,4,1),(1,2,0)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,1),(3,3,2),(4,5,2)); lvl=2; h,r-ind=1,1
  [3,3]((2,1,2),(1,3,0),(3,3,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,1),(2,2,1),(3,3,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,1),(2,1,2),(3,3,2)); lvl=1; h,r-ind=1,1
  [3,3]((5,0,6),(1,0,1),(2,1,2)); lvl=1; h,r-ind=1,1
```

18.76 Resolved

```
[3,3]((1,0,0),(2,3,0),(1,0,6)); lvl=0; h,r-ind=18,6
  [4,3]((1,1,1),(1,1,0),(1,0,0),(1,0,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,0),(4,3,3),(1,0,0),(2,0,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((1,0,1),(2,1,2),(5,3,3)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,1,0),(4,3,3),(2,1,2),(5,3,3)); lvl=3; h,r-ind=1,3
        [3,3]((3,2,2),(2,1,2),(4,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,0),(3,2,2),(4,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,3,3),(3,2,2),(2,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,0),(5,3,3),(3,2,2)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,0),(1,0,0),(1,0,1),(5,3,3)); lvl=3; h,r-ind=1,3
        [3,3]((1,0,1),(1,0,0),(2,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,0),(1,0,0),(2,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((5,3,3),(1,0,1),(2,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,0),(5,3,3),(2,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,1),(2,0,3),(2,1,2)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(1,0,3),(4,3,3),(2,0,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((2,1,2),(2,0,3),(1,0,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,2),(5,3,6),(1,0,2)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,1,1),(1,0,3),(5,3,6),(1,0,2)); lvl=3; h,r-ind=1,3
        [3,3]((2,1,3),(1,0,2),(1,0,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(2,1,3),(1,0,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,3,6),(2,1,3),(1,0,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(5,3,6),(2,1,3)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,1),(4,3,3),(2,1,2),(5,3,6)); lvl=3; h,r-ind=1,3
        [3,3]((3,2,3),(4,3,3),(2,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((5,3,6),(3,2,3),(2,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(5,3,6),(3,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,2,3),(4,3,3)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,1),(1,1,0),(4,3,3)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,6),(1,1,2),(1,1,1),(1,0,3)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((1,1,2),(4,3,9),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((2,0,9),(1,0,3),(4,3,9),(1,1,1)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,0,4),(5,3,12),(1,1,1),(1,0,3)); lvl=3; h,r-ind=1,3
        [3,3]((2,1,5),(1,1,1),(5,3,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,4),(2,1,5),(5,3,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,3),(2,1,5),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,4),(1,0,3),(2,1,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,4),(2,1,6),(5,3,12)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,0,9),(1,0,4),(2,1,6)); lvl=3; h,r-ind=1,1
      [4,3]((4,3,9),(2,1,6),(5,3,12),(1,1,1)); lvl=3; h,r-ind=1,3
        [3,3]((3,2,7),(2,1,6),(5,3,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,2,7),(1,1,1),(5,3,12)); lvl=4; h,r-ind=1,1
        [3,3]((4,3,9),(3,2,7),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((4,3,9),(3,2,7),(2,1,6)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,6),(2,0,9),(1,1,2),(4,3,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((5,3,15),(1,1,2),(4,3,9),(2,1,6)); lvl=3; h,r-ind=1,3
        [3,3]((3,2,8),(4,3,9),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((5,3,15),(3,2,8),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,1,6),(3,2,8),(4,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,3,15),(2,1,6),(3,2,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,5),(5,3,15),(2,1,6)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((1,0,5),(2,0,9),(2,1,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,5),(1,0,6),(5,3,15),(1,1,2)); lvl=3; h,r-ind=1,3
        [3,3]((1,0,6),(2,1,7),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((5,3,15),(2,1,7),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,5),(1,0,6),(2,1,7)); lvl=4; h,r-ind=1,1
        [3,3]((5,3,15),(1,0,5),(2,1,7)); lvl=4; h,r-ind=1,1
  [3,3]((2,3,0),(1,1,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,0),(1,1,1),(1,1,0)); lvl=1; h,r-ind=1,1
```

19 H-index = 19

19.0 Classification

```
[3,3]((1,0,0),(0,1,0),(0,1,19))
  [3,3]((1,0,0),(0,1,0),(0,1,19))
  [3,3]((1,0,0),(0,1,0),(1,0,19))
  [3,3]((1,0,0),(1,19,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,2,19))
  [3,3]((1,0,0),(0,1,0),(0,2,19))
  [3,3]((1,0,0),(0,1,0),(0,10,19))
  [3,3]((1,0,0),(0,1,0),(2,0,19))
  [3,3]((1,0,0),(0,1,0),(10,0,19))
  [3,3]((1,0,0),(2,19,0),(0,0,1))
  [3,3]((1,0,0),(10,19,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,3,19))
  [3,3]((1,0,0),(0,1,0),(0,3,19))
  [3,3]((1,0,0),(0,1,0),(0,13,19))
  [3,3]((1,0,0),(0,1,0),(3,0,19))
  [3,3]((1,0,0),(0,1,0),(13,0,19))
  [3,3]((1,0,0),(3,19,0),(0,0,1))
  [3,3]((1,0,0),(13,19,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,4,19))
  [3,3]((1,0,0),(0,1,0),(0,4,19))
  [3,3]((1,0,0),(0,1,0),(0,5,19))
  [3,3]((1,0,0),(0,1,0),(4,0,19))
  [3,3]((1,0,0),(0,1,0),(5,0,19))
  [3,3]((1,0,0),(4,19,0),(0,0,1))
  [3,3]((1,0,0),(5,19,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,6,19))
  [3,3]((1,0,0),(0,1,0),(0,6,19))
  [3,3]((1,0,0),(0,1,0),(0,16,19))
  [3,3]((1,0,0),(0,1,0),(6,0,19))
  [3,3]((1,0,0),(0,1,0),(16,0,19))
  [3,3]((1,0,0),(6,19,0),(0,0,1))
  [3,3]((1,0,0),(16,19,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,7,19))
  [3,3]((1,0,0),(0,1,0),(0,7,19))
  [3,3]((1,0,0),(0,1,0),(0,11,19))
  [3,3]((1,0,0),(0,1,0),(7,0,19))
  [3,3]((1,0,0),(0,1,0),(11,0,19))
  [3,3]((1,0,0),(7,19,0),(0,0,1))
  [3,3]((1,0,0),(11,19,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,8,19))
  [3,3]((1,0,0),(0,1,0),(0,8,19))
```

```
  [3,3]((1,0,0),(0,1,0),(0,12,19))
  [3,3]((1,0,0),(0,1,0),(8,0,19))
  [3,3]((1,0,0),(0,1,0),(12,0,19))
  [3,3]((1,0,0),(8,19,0),(0,0,1))
  [3,3]((1,0,0),(12,19,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,9,19))
  [3,3]((1,0,0),(0,1,0),(0,9,19))
  [3,3]((1,0,0),(0,1,0),(0,17,19))
  [3,3]((1,0,0),(0,1,0),(9,0,19))
  [3,3]((1,0,0),(0,1,0),(17,0,19))
  [3,3]((1,0,0),(9,19,0),(0,0,1))
  [3,3]((1,0,0),(17,19,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,14,19))
  [3,3]((1,0,0),(0,1,0),(0,14,19))
  [3,3]((1,0,0),(0,1,0),(0,15,19))
  [3,3]((1,0,0),(0,1,0),(14,0,19))
  [3,3]((1,0,0),(0,1,0),(15,0,19))
  [3,3]((1,0,0),(14,19,0),(0,0,1))
  [3,3]((1,0,0),(15,19,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,18,19))
  [3,3]((1,0,0),(0,1,0),(0,18,19))
  [3,3]((1,0,0),(0,1,0),(18,0,19))
  [3,3]((1,0,0),(18,19,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(1,1,19))
  [3,3]((1,0,0),(0,1,0),(1,1,19))
  [3,3]((1,0,0),(0,1,0),(1,18,19))
  [3,3]((1,0,0),(0,1,0),(18,1,19))
[3,3]((1,0,0),(0,1,0),(1,2,19))
  [3,3]((1,0,0),(0,1,0),(1,2,19))
  [3,3]((1,0,0),(0,1,0),(1,17,19))
  [3,3]((1,0,0),(0,1,0),(2,1,19))
  [3,3]((1,0,0),(0,1,0),(9,10,19))
  [3,3]((1,0,0),(0,1,0),(10,9,19))
  [3,3]((1,0,0),(0,1,0),(17,1,19))
[3,3]((1,0,0),(0,1,0),(1,3,19))
  [3,3]((1,0,0),(0,1,0),(1,3,19))
  [3,3]((1,0,0),(0,1,0),(1,16,19))
  [3,3]((1,0,0),(0,1,0),(3,1,19))
  [3,3]((1,0,0),(0,1,0),(6,13,19))
  [3,3]((1,0,0),(0,1,0),(13,6,19))
  [3,3]((1,0,0),(0,1,0),(16,1,19))
[3,3]((1,0,0),(0,1,0),(1,4,19))
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  [3,3]((1,0,0),(0,1,0),(18,6,19))
[3,3]((1,0,0),(0,1,0),(7,7,19))
  [3,3]((1,0,0),(0,1,0),(7,7,19))
  [3,3]((1,0,0),(0,1,0),(11,18,19))
  [3,3]((1,0,0),(0,1,0),(18,11,19))
[3,3]((1,0,0),(0,1,0),(7,8,19))
  [3,3]((1,0,0),(0,1,0),(7,8,19))
  [3,3]((1,0,0),(0,1,0),(7,11,19))
  [3,3]((1,0,0),(0,1,0),(8,7,19))
  [3,3]((1,0,0),(0,1,0),(11,7,19))
  [3,3]((1,0,0),(0,1,0),(11,12,19))
  [3,3]((1,0,0),(0,1,0),(12,11,19))
[3,3]((1,0,0),(0,1,0),(7,9,19))
  [3,3]((1,0,0),(0,1,0),(7,9,19))
  [3,3]((1,0,0),(0,1,0),(9,7,19))
  [3,3]((1,0,0),(0,1,0),(11,15,19))
  [3,3]((1,0,0),(0,1,0),(14,17,19))
  [3,3]((1,0,0),(0,1,0),(15,11,19))
  [3,3]((1,0,0),(0,1,0),(17,14,19))
[3,3]((1,0,0),(0,1,0),(7,14,19))
  [3,3]((1,0,0),(0,1,0),(7,14,19))
  [3,3]((1,0,0),(0,1,0),(9,15,19))
  [3,3]((1,0,0),(0,1,0),(11,17,19))
  [3,3]((1,0,0),(0,1,0),(14,7,19))
  [3,3]((1,0,0),(0,1,0),(15,9,19))
  [3,3]((1,0,0),(0,1,0),(17,11,19))
[3,3]((1,0,0),(0,1,0),(7,18,19))
  [3,3]((1,0,0),(0,1,0),(7,18,19))
  [3,3]((1,0,0),(0,1,0),(11,11,19))
  [3,3]((1,0,0),(0,1,0),(18,7,19))
[3,3]((1,0,0),(0,1,0),(8,8,19))
  [3,3]((1,0,0),(0,1,0),(8,8,19))
  [3,3]((1,0,0),(0,1,0),(12,18,19))
  [3,3]((1,0,0),(0,1,0),(18,12,19))
[3,3]((1,0,0),(0,1,0),(8,12,19))
  [3,3]((1,0,0),(0,1,0),(8,12,19))
  [3,3]((1,0,0),(0,1,0),(12,8,19))
[3,3]((1,0,0),(0,1,0),(8,18,19))
  [3,3]((1,0,0),(0,1,0),(8,18,19))
  [3,3]((1,0,0),(0,1,0),(12,12,19))
  [3,3]((1,0,0),(0,1,0),(18,8,19))
[3,3]((1,0,0),(0,1,0),(9,9,19))
  [3,3]((1,0,0),(0,1,0),(9,9,19))
  [3,3]((1,0,0),(0,1,0),(17,18,19))
  [3,3]((1,0,0),(0,1,0),(18,17,19))
[3,3]((1,0,0),(0,1,0),(9,14,19))
  [3,3]((1,0,0),(0,1,0),(9,14,19))
  [3,3]((1,0,0),(0,1,0),(9,17,19))
  [3,3]((1,0,0),(0,1,0),(14,9,19))
  [3,3]((1,0,0),(0,1,0),(15,17,19))
  [3,3]((1,0,0),(0,1,0),(17,9,19))
  [3,3]((1,0,0),(0,1,0),(17,15,19))
[3,3]((1,0,0),(0,1,0),(9,18,19))
  [3,3]((1,0,0),(0,1,0),(9,18,19))
  [3,3]((1,0,0),(0,1,0),(17,17,19))
```

```
  [3,3]((1,0,0),(0,1,0),(18,9,19))
[3,3]((1,0,0),(0,1,0),(14,14,19))
  [3,3]((1,0,0),(0,1,0),(14,14,19))
  [3,3]((1,0,0),(0,1,0),(15,18,19))
  [3,3]((1,0,0),(0,1,0),(18,15,19))
[3,3]((1,0,0),(0,1,0),(14,18,19))
  [3,3]((1,0,0),(0,1,0),(14,18,19))
  [3,3]((1,0,0),(0,1,0),(15,15,19))
  [3,3]((1,0,0),(0,1,0),(18,14,19))
[3,3]((1,0,0),(0,1,0),(18,18,19))
  [3,3]((1,0,0),(0,1,0),(18,18,19))
```

19.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,19)); lvl=0; h,r-ind=19,19
  [3,3]((1,0,0),(0,2,19),(0,1,0)); lvl=1; h,r-ind=19,19
    [3,3]((1,0,0),(0,1,9),(0,2,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,5),(0,1,9)); lvl=2; h,r-ind=4,4; optimized-h
    [3,3]((1,0,0),(0,1,0),(0,1,5)); lvl=2; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,1,19),(0,2,19)); lvl=1; h,r-ind=19,19
    [3,3]((1,0,0),(0,1,19),(0,1,14)); lvl=2; h,r-ind=5,5; optimized-h
    [3,3]((1,0,0),(0,1,10),(0,1,14)); lvl=2; h,r-ind=4,4; optimized-h
    [3,3]((1,0,0),(0,1,10),(0,2,19)); lvl=2; h,r-ind=1,1
```

19.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,2,19)); lvl=0; h,r-ind=19,19
  [3,3]((1,0,0),(0,1,9),(0,2,19)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,5),(0,1,9)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,0,0),(0,1,0),(0,1,5)); lvl=1; h,r-ind=5,5; optimized-h
```

19.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,3,19)); lvl=0; h,r-ind=19,19
  [3,3]((1,0,0),(0,1,0),(0,2,7)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,0,0),(0,1,6),(0,2,7)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,3,19),(0,1,6)); lvl=1; h,r-ind=1,1
```

19.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,4,19)); lvl=0; h,r-ind=19,19
  [3,3]((1,0,0),(0,2,5),(0,1,0)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,2,9),(0,2,5)); lvl=1; h,r-ind=8,8; optimized-h
  [3,3]((1,0,0),(0,4,19),(0,2,9)); lvl=1; h,r-ind=2,2; optimized-h
```

19.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,6,19)); lvl=0; h,r-ind=19,19
  [3,3]((1,0,0),(0,1,3),(0,6,19)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,2),(0,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,1,2)); lvl=1; h,r-ind=2,2; optimized-h
```

19.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,7,19)); lvl=0; h,r-ind=19,19
  [3,3]((1,0,0),(0,2,5),(0,2,3)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,3,8),(0,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,7,19),(0,3,8)); lvl=1; h,r-ind=1,1
```

19.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,8,19)); lvl=0; h,r-ind=19,19
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,2),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,2),(0,4,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,3,7),(0,4,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,3,7),(0,8,19)); lvl=1; h,r-ind=1,1
```

19.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,9,19)); lvl=0; h,r-ind=19,19
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,2),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,9,19),(0,1,2)); lvl=1; h,r-ind=1,1
```

19.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,14,19)); lvl=0; h,r-ind=19,19
  [3,3]((1,0,0),(0,4,5),(0,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,14,19),(0,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,1),(0,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
```

19.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,18,19)); lvl=0; h,r-ind=19,19
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,1),(0,18,19)); lvl=1; h,r-ind=1,1
```

19.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,19)); lvl=0; h,r-ind=19,361
  [3,3]((0,1,0),(1,1,18),(2,2,19)); lvl=1; h,r-ind=17,17; optimized-h
  [3,3]((1,0,0),(1,1,18),(2,2,19)); lvl=1; h,r-ind=17,17; optimized-h
  [3,3]((1,0,0),(0,1,0),(2,2,19)); lvl=1; h,r-ind=19,361
    [3,3]((1,1,9),(1,0,0),(1,1,5)); lvl=2; h,r-ind=4,4; optimized-h
    [3,3]((0,1,0),(1,0,0),(1,1,5)); lvl=2; h,r-ind=5,25; optimized-h
    [3,3]((0,1,0),(1,1,9),(1,1,5)); lvl=2; h,r-ind=4,4; optimized-h
    [3,3]((2,2,19),(0,1,0),(1,1,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,19),(1,1,9),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,19),(0,1,0),(1,1,18)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,19),(1,1,18)); lvl=1; h,r-ind=1,1
```

19.12 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,19)); lvl=0; h,r-ind=19,361
  [5,3]((2,4,19),(1,2,17),(1,1,5),(2,3,27),(1,1,9)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,7),(4,6,41),(2,3,26),(1,1,9)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,8),(1,1,9),(2,3,23),(2,3,26)); lvl=3; h,r-ind=1,1
        [4,3]((1,1,9),(5,6,50),(2,3,26),(4,6,49)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [3,3]((3,4,33),(4,6,49),(2,3,25)); lvl=5; h,r-ind=1,1
          [3,3]((7,9,76),(3,4,33),(2,3,25)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,1,9),(2,3,26),(7,9,76),(2,3,25)); lvl=5; h,r-ind=1,3
            [3,3]((2,3,25),(3,4,34),(2,3,26)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,9),(3,4,34),(2,3,26)); lvl=6; h,r-ind=1,1
            [3,3]((7,9,76),(2,3,25),(3,4,34)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,9),(7,9,76),(3,4,34)); lvl=6; h,r-ind=1,1
          [4,3]((1,1,9),(5,6,50),(7,9,76),(3,4,33)); lvl=5; h,r-ind=1,3
            [3,3]((4,5,42),(3,4,33),(5,6,50)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,9),(4,5,42),(5,6,50)); lvl=6; h,r-ind=1,1
            [3,3]((7,9,76),(4,5,42),(3,4,33)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,9),(7,9,76),(4,5,42)); lvl=6; h,r-ind=1,1
```

```
      [4,3]((1,1,8),(5,6,50),(2,3,23),(4,6,49)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,1,8),(7,9,73),(2,3,24),(2,3,23)); lvl=5; h,r-ind=1,3
          [3,3]((3,4,32),(2,3,24),(7,9,73)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,8),(3,4,32),(7,9,73)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,23),(3,4,32),(2,3,24)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,8),(2,3,23),(3,4,32)); lvl=6; h,r-ind=1,1
        [3,3]((7,9,73),(3,4,33),(2,3,24)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,4,33),(4,6,49),(2,3,24)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,8),(7,9,73),(3,4,33),(5,6,50)); lvl=5; h,r-ind=1,3
          [3,3]((7,9,73),(4,5,41),(3,4,33)); lvl=6; h,r-ind=1,1
          [3,3]((5,6,50),(4,5,41),(3,4,33)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,8),(5,6,50),(4,5,41)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,8),(7,9,73),(4,5,41)); lvl=6; h,r-ind=1,1
      [3,3]((1,1,8),(1,1,9),(5,6,50)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,7),(1,1,8),(2,3,21),(2,3,23)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,8),(4,5,37),(2,3,22),(2,3,23)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,30),(4,5,37),(2,3,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,23),(3,4,30),(2,3,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,8),(2,3,23),(3,4,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,8),(3,4,30),(4,5,37)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,7),(1,1,8),(4,5,37)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,7),(4,5,37),(2,3,21),(2,3,22)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,21),(2,3,22),(3,4,29)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,37),(2,3,22),(3,4,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,7),(4,5,37),(3,4,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,7),(2,3,21),(3,4,29)); lvl=5; h,r-ind=1,1
    [3,3]((1,1,7),(4,6,41),(2,3,21)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,27),(2,3,26),(1,1,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,17),(2,3,27),(2,3,26)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,13),(1,2,10),(1,1,5),(1,1,7),(4,6,41)); lvl=2; h,r-ind=1,1
    [5,3]((1,1,5),(1,1,6),(2,3,18),(1,2,10),(2,4,23)); lvl=3; h,r-ind=1,1
      [4,3]((4,6,35),(2,4,23),(1,2,11),(2,3,18)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,29),(1,2,11),(2,4,23)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,29),(2,3,18),(2,4,23)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,35),(3,5,29),(2,3,18)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,35),(3,5,29),(1,2,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,6),(4,6,35),(2,3,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,6),(4,6,35),(3,4,22),(1,2,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,11),(2,3,17),(4,6,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,6),(2,3,17),(4,6,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,6),(3,4,22),(2,3,17)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,22),(1,2,11),(2,3,17)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,5),(3,4,22),(1,2,10),(1,2,11)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,10),(1,2,11),(2,3,16)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,22),(1,2,11),(2,3,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,5),(3,4,22),(2,3,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,5),(1,2,10),(2,3,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,5),(1,1,6),(3,4,22)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,13),(2,3,20),(2,3,18),(2,4,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,12),(2,3,19),(2,3,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,23),(1,2,12),(2,3,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,13),(1,2,12),(2,3,19),(2,3,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,12),(2,3,19),(3,5,32)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,20),(2,3,19),(3,5,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,13),(1,2,12),(3,5,32)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,20),(1,2,13),(3,5,32)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,13),(4,6,41),(2,3,20)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,41),(2,3,20),(1,1,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,20),(1,1,7),(1,1,6),(2,3,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,7),(1,1,6),(4,5,32)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,19),(2,3,18),(1,1,6),(4,5,32)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,25),(1,1,6),(2,3,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,19),(3,4,25),(2,3,18)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,32),(3,4,25),(1,1,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,19),(4,5,32),(3,4,25)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,20),(2,3,19),(1,1,7),(4,5,32)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,26),(4,5,32),(2,3,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,20),(3,4,26),(2,3,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,7),(2,3,20),(3,4,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,7),(3,4,26),(4,5,32)); lvl=5; h,r-ind=1,1
  [3,3]((2,4,19),(1,2,10),(1,1,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,17),(1,2,13),(4,6,41),(2,3,26)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,21),(1,2,13),(4,6,41)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,15),(2,3,23),(2,3,21),(1,2,13)); lvl=3; h,r-ind=2,1; alert-h-inc
      [4,3]((1,2,14),(1,2,13),(2,3,22),(2,3,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,22),(2,3,21),(3,5,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,13),(2,3,21),(3,5,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,14),(1,2,13),(3,5,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,14),(2,3,22),(3,5,35)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,15),(1,2,14),(2,3,22),(2,3,23)); lvl=4; h,r-ind=1,1
```

```
          [3,3]((1,2,14),(2,3,22),(3,5,37)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,23),(2,3,22),(3,5,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,15),(1,2,14),(3,5,37)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,23),(1,2,15),(3,5,37)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,17),(1,2,15),(2,3,26),(2,3,23)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,16),(1,2,15),(4,6,49),(2,3,23)); lvl=4; h,r-ind=1,1
          [4,3]((1,2,15),(2,3,24),(4,7,55),(2,3,23)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((4,7,55),(3,5,39),(2,3,24)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,23),(3,5,39),(2,3,24)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,15),(2,3,23),(3,5,39)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,15),(4,7,55),(3,5,39)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,16),(2,3,24),(4,7,55)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,15),(1,2,16),(4,7,55)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,16),(4,6,49),(2,3,24)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,17),(1,2,16),(2,3,26),(4,6,49)); lvl=4; h,r-ind=1,1
          [3,3]((1,2,16),(2,3,25),(4,6,49)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,58),(1,2,16),(2,3,25)); lvl=5; h,r-ind=1,1
          [4,3]((1,2,17),(4,7,58),(2,3,26),(2,3,25)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,5,42),(2,3,26),(2,3,25)); lvl=6; h,r-ind=1,1
            [3,3]((4,7,58),(3,5,42),(2,3,25)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,17),(4,7,58),(3,5,42)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,17),(3,5,42),(2,3,26)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,17),(4,7,58),(1,2,16)); lvl=5; h,r-ind=1,1
[3,3]((1,2,19),(2,3,27),(1,1,9)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(1,2,19),(1,1,9)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(1,1,5),(1,1,9)); lvl=1; h,r-ind=4,4; optimized-h
[3,3]((1,2,19),(1,2,17),(2,3,27)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((1,0,0),(0,1,0),(2,4,19),(1,1,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,5),(1,2,8)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((1,0,0),(2,2,9),(2,3,13),(1,2,5),(1,2,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,4),(2,4,13),(2,2,7),(1,2,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,7),(5,7,25),(2,3,10),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,21),(5,7,25),(3,4,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(4,6,21),(3,4,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(2,3,10),(4,6,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(4,6,21),(5,7,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,2,7),(2,3,10),(3,4,14)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,4),(5,7,25),(2,2,7),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,18),(5,7,25),(3,4,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,7),(4,5,18),(3,4,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(2,2,7),(4,5,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(4,5,18),(5,7,25)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,4),(1,2,8),(1,2,7),(5,7,25)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,3,11),(1,2,7),(1,2,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(2,3,11),(1,2,8)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,25),(2,3,11),(1,2,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(5,7,25),(2,3,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,7),(2,4,13),(2,3,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,4),(2,3,13),(1,2,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,9),(1,1,4),(2,3,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,4),(2,2,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,9),(1,0,0),(1,1,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(2,4,13),(1,1,3),(2,2,7)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,22),(3,4,13),(2,2,7),(1,1,3)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,13),(2,2,7),(4,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(2,2,7),(4,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,22),(3,4,13),(4,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(5,7,22),(4,5,16)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,5),(1,2,6),(5,7,22),(1,1,3)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((1,2,6),(5,7,22),(2,3,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(5,7,22),(2,3,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(1,2,6),(2,3,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(1,2,5),(2,3,9)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,10),(3,4,13),(2,2,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,6),(5,7,22),(2,3,10),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,22),(4,6,19),(3,4,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(4,6,19),(3,4,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(2,3,10),(4,6,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(5,7,22),(4,6,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,6),(2,4,13),(2,3,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(2,2,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,5),(1,1,3)); lvl=3; h,r-ind=1,1
  [4,3]((2,2,9),(2,3,13),(1,2,9),(1,1,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,9),(2,3,13),(3,4,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,9),(2,3,13),(3,4,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,5),(2,2,9),(3,4,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,5),(1,2,9),(3,4,18)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,9),(1,1,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,9),(0,1,0),(1,2,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,13),(1,2,9),(1,2,8)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,2,9),(2,4,19),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,9),(1,1,5),(2,4,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,2,5)); lvl=2; h,r-ind=5,25; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(2,4,19),(1,2,17)); lvl=1; h,r-ind=15,15; optimized-h
  [3,3]((1,2,19),(0,1,0),(1,2,17)); lvl=1; h,r-ind=2,2; optimized-h
```

19.13 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,19)); lvl=0; h,r-ind=19,361
  [5,3]((2,6,19),(1,3,16),(1,2,12),(1,1,6),(2,2,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,11),(1,2,12),(1,3,16)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,25),(1,2,11),(1,2,9),(1,3,16)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,14),(1,3,13),(1,2,9),(1,2,10)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,13),(1,2,9),(2,5,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,10),(1,2,9),(2,5,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,14),(1,3,13),(2,5,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,10),(1,3,14),(2,5,23)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,16),(1,3,14),(1,2,11),(1,2,10)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,11),(3,7,36),(1,2,10)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,15),(1,3,14),(3,7,36),(1,2,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,25),(1,2,10),(1,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,15),(2,5,25),(1,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,36),(2,5,25),(1,2,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,15),(3,7,36),(2,5,25)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,16),(1,3,15),(1,2,11),(3,7,36)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,26),(1,3,15),(3,7,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,11),(2,5,26),(3,7,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,16),(2,5,26),(1,3,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,11),(1,3,16),(2,5,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,13),(2,6,25),(1,2,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,10),(2,6,25),(1,2,9),(1,2,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,12),(2,6,25),(1,2,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,6,23),(1,3,12),(1,2,8),(1,2,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,8),(1,2,9),(2,5,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,12),(1,2,9),(2,5,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,23),(1,3,12),(2,5,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,23),(1,2,8),(2,5,20)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,10),(2,6,23),(1,2,7),(1,2,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,8),(1,2,7),(3,7,26)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,10),(1,3,11),(1,2,7),(3,7,26)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,18),(1,3,11),(3,7,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,7),(2,5,18),(3,7,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,10),(2,5,18),(1,3,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,7),(1,3,10),(2,5,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,11),(1,2,8),(3,7,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,11),(2,6,23),(1,2,8)); lvl=4; h,r-ind=1,1
    [4,3]((2,6,19),(1,3,10),(2,4,13),(1,2,7)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,16),(4,10,33),(1,2,7),(2,4,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,10,33),(3,7,23),(1,2,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,13),(3,7,23),(1,2,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,16),(2,4,13),(3,7,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,16),(4,10,33),(3,7,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,10),(4,10,33),(1,2,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,6,19),(2,5,16),(1,3,10),(4,10,33)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,16),(4,10,33),(3,8,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,10),(4,10,33),(3,8,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,19),(1,3,10),(3,8,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,19),(2,5,16),(3,8,26)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,9),(1,2,7),(1,1,4),(2,2,9)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,7),(1,2,8),(1,1,4),(3,4,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,8),(3,4,17),(2,3,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(3,4,17),(2,3,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(1,2,8),(2,3,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(1,2,7),(2,3,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,9),(1,1,4),(3,4,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,9),(2,2,9),(3,4,17)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,9),(1,2,8),(3,4,17)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,2,7),(2,4,13),(1,2,7),(1,1,4)); lvl=2; h,r-ind=1,1
      [4,3]((2,4,13),(2,3,10),(1,2,7),(4,6,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,10),(4,6,21),(3,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(4,6,21),(3,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,13),(1,2,7),(3,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,13),(2,3,10),(3,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(1,2,7),(4,6,21)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,4),(2,2,7),(2,3,10),(4,6,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,2,7),(3,4,14),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,21),(3,4,14),(2,3,10)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,1,4),(2,2,7),(3,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,21),(1,1,4),(3,4,14)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,11),(1,2,12),(1,1,6)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,11),(1,2,9),(2,2,9),(1,1,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,9),(2,2,9),(1,1,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,10),(1,2,9),(1,1,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,10),(1,2,11),(1,1,6),(1,1,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,11),(1,1,6),(2,3,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,5),(1,1,6),(2,3,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,10),(1,2,11),(2,3,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,5),(1,2,10),(2,3,16)); lvl=4; h,r-ind=1,1
[3,3]((1,0,0),(1,1,6),(2,2,7)); lvl=1; h,r-ind=5,5; optimized-h
[4,3]((1,0,0),(0,1,0),(2,6,19),(2,2,7)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,6),(2,4,13),(1,3,9),(2,6,19)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,9),(4,10,31),(2,6,19),(2,5,16)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,10,31),(3,8,25),(2,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,19),(3,8,25),(2,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(2,6,19),(3,8,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(4,10,31),(3,8,25)); lvl=4; h,r-ind=1,1
    [4,3]((2,4,13),(1,2,6),(4,10,31),(2,5,16)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,6),(4,10,31),(3,7,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,16),(4,10,31),(3,7,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,13),(2,5,16),(3,7,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,13),(1,2,6),(3,7,22)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,6),(1,3,9),(4,10,31)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,9),(0,1,0),(2,6,19)); lvl=2; h,r-ind=1,1
  [4,3]((2,2,7),(1,2,6),(1,1,3),(2,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,2,6),(4,6,19)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,13),(2,3,10),(1,2,6),(4,6,19)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,16),(2,3,10),(4,6,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(3,5,16),(4,6,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,13),(3,5,16),(2,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,4,13),(3,5,16)); lvl=4; h,r-ind=1,1
    [4,3]((2,2,7),(2,3,10),(1,1,3),(4,6,19)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,10),(4,6,19),(3,4,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(4,6,19),(3,4,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,7),(1,1,3),(3,4,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,7),(2,3,10),(3,4,13)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,7),(1,1,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,6),(1,3,9),(1,3,7)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,3,9),(1,3,7),(0,1,0)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((1,2,6),(1,1,3),(1,3,7),(1,1,2),(1,3,5)); lvl=2; h,r-ind=1,2; alert-r-inc
    [4,3]((2,4,9),(1,2,4),(1,1,2),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(1,2,4),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(3,5,11),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,9),(2,3,7),(3,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,9),(3,5,11),(1,2,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,2),(2,3,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,3),(2,4,9),(1,2,5),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,9),(3,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(2,4,9),(3,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(1,2,5),(3,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(1,1,3),(3,5,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,6),(1,1,3),(1,2,5)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,9),(1,2,5),(1,3,6),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,11),(1,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,11),(1,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,9),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,9),(1,3,6),(2,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,6),(1,2,5),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,4),(1,1,2)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,9),(1,3,6),(1,3,5),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(1,3,5),(1,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,9),(2,5,10),(1,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(1,2,4),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,9),(2,5,10),(1,2,4)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(1,1,2),(1,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,2),(2,2,3),(2,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(1,1,1),(2,3,4),(5,6,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(3,4,5),(1,1,1)); lvl=5; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(5,6,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,3),(1,1,1),(5,6,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=5; h,r-ind=1,1
```

```
      [4,3]((1,1,2),(1,2,3),(2,2,3),(2,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,3),(2,3,4),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(2,3,4),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(1,2,3),(3,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,3,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [5,3]((2,5,7),(1,2,3),(1,2,2),(2,5,5),(2,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((2,4,5),(2,3,4),(1,2,3)); lvl=4; h,r-ind=1,1
        [4,3]((2,4,5),(6,13,16),(5,11,14),(1,2,3)); lvl=4; h,r-ind=1,1
          [3,3]((5,11,14),(6,13,16),(7,15,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,5),(6,13,16),(7,15,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(2,4,5),(7,15,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(5,11,14),(7,15,19)); lvl=5; h,r-ind=1,1
        [4,3]((2,5,7),(5,11,14),(3,7,9),(1,2,3)); lvl=4; h,r-ind=1,1
          [3,3]((4,9,12),(3,7,9),(5,11,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(4,9,12),(5,11,14)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,7),(4,9,12),(3,7,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(2,5,7),(4,9,12)); lvl=5; h,r-ind=1,1
        [6,3]((2,5,6),(3,7,8),(5,11,13),(6,13,16),(5,11,14),(3,7,9)); lvl=4; h,r-ind=1,1
          [3,3]((6,13,16),(4,9,11),(5,11,14)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,9),(4,9,11),(5,11,14)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,6),(3,7,9),(4,9,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,8),(2,5,6),(4,9,11)); lvl=5; h,r-ind=1,1
          [3,3]((5,11,13),(6,13,16),(4,9,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,8),(5,11,13),(4,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,7),(2,5,6),(3,7,9)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,2),(5,11,13),(2,4,5),(6,13,16)); lvl=4; h,r-ind=1,1
          [3,3]((5,11,13),(6,13,16),(7,15,18)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,5),(6,13,16),(7,15,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(5,11,13),(7,15,18)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,5),(1,2,2),(7,15,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,5),(1,2,2),(3,7,8),(5,11,13)); lvl=4; h,r-ind=1,1
          [3,3]((4,9,10),(5,11,13),(1,2,2)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,5),(4,9,10),(1,2,2)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,8),(4,9,10),(5,11,13)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,8),(2,5,5),(4,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,6),(2,5,5),(3,7,8)); lvl=4; h,r-ind=1,1
      [4,3]((0,1,0),(1,3,5),(2,5,7),(2,5,5)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,4),(1,3,5),(2,5,7)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,4),(2,6,7),(2,5,6),(2,5,7)); lvl=4; h,r-ind=1,1
          [3,3]((3,8,10),(2,5,6),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(3,8,10),(2,5,7)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,10),(2,5,7),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(1,3,4),(2,6,7)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,3),(2,6,7),(2,5,6),(2,5,5)); lvl=4; h,r-ind=1,1
          [3,3]((2,5,6),(3,8,9),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(3,8,9),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,5),(1,3,3),(3,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,5),(2,5,6),(3,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(1,3,3),(2,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,3,3),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,3,4),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,7),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(0,1,0),(1,3,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(2,6,19),(1,3,16)); lvl=1; h,r-ind=13,13; optimized-h
  [3,3]((1,3,19),(0,1,0),(1,3,16)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,3,19),(1,3,16),(1,2,12)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,3,19),(1,2,12),(1,1,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,19),(1,1,6)); lvl=1; h,r-ind=1,1
```

19.14 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,4,19)); lvl=0; h,r-ind=19,361
  [4,3]((2,6,15),(1,3,12),(1,0,0),(1,2,9)); lvl=1; h,r-ind=3,3
    [3,3]((2,3,12),(1,2,9),(1,2,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,12),(1,2,9),(1,2,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,13),(2,6,19),(1,3,12),(1,2,8)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,7),(1,2,8),(1,3,12),(2,6,21)); lvl=3; h,r-ind=1,1
        [4,3]((3,7,26),(1,2,8),(1,3,11),(1,3,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,3,11),(1,3,12),(2,5,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,8),(1,3,12),(2,5,19)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,26),(1,3,11),(2,5,19)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((1,2,8),(3,7,26),(2,5,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(3,7,26),(1,3,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,21),(1,2,7),(1,3,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(3,7,26),(1,2,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(1,3,10),(2,6,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(2,5,16),(1,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,16),(2,6,19),(1,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,13),(1,2,7),(2,5,16)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,13),(2,3,10),(2,3,12),(1,2,8)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,7),(1,2,8),(2,3,12),(2,3,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,8),(2,3,12),(3,5,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(2,3,12),(3,5,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(1,2,8),(3,5,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(1,2,7),(3,5,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(2,3,10),(2,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,13),(1,2,7),(2,3,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,13),(1,2,6),(2,3,9),(2,3,10)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,6),(3,5,16),(2,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(3,5,16),(2,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,13),(1,2,6),(3,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(2,4,13),(3,5,16)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(1,3,8),(1,2,6),(2,3,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,8),(2,4,11),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(2,4,11),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,9),(2,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,3,8),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(1,3,8),(2,6,15)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,8),(2,4,13),(2,6,19),(1,2,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,9),(5,12,37),(2,5,16),(3,7,22)); lvl=3; h,r-ind=1,1
        [3,3]((5,12,37),(4,10,31),(3,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,16),(4,10,31),(3,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(2,5,16),(4,10,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(5,12,37),(4,10,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,13),(2,5,16),(3,7,22)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,6),(5,12,37),(2,4,13),(3,7,22)); lvl=3; h,r-ind=1,1
        [3,3]((5,12,37),(4,9,28),(3,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,13),(4,9,28),(3,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(5,12,37),(4,9,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,13),(1,2,6),(4,9,28)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,6),(1,3,8),(1,3,9),(5,12,37)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,5,15),(1,3,8),(1,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,37),(2,5,15),(1,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(5,12,37),(2,5,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,5,15),(1,3,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(2,6,19),(2,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,12),(1,1,4),(1,2,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,4),(1,2,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,10),(2,2,7),(2,3,12),(1,1,4)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,18),(2,2,7),(1,1,4)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,12),(2,3,11),(4,5,18),(1,1,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,15),(4,5,18),(2,3,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,12),(3,4,15),(2,3,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(2,3,12),(3,4,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(3,4,15),(4,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(2,3,11),(4,5,18)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,3,10),(4,5,18),(2,2,7)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(2,2,7),(1,1,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,9),(2,3,10),(1,0,0),(2,2,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,20),(2,3,10),(2,2,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,3),(1,0,0),(5,6,20),(2,2,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,10),(1,0,0),(2,2,7)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,20),(3,3,10),(2,2,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(5,6,20),(3,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(3,3,10),(1,0,0)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(5,6,20),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(1,1,3),(2,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,9),(1,0,0)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,3,14),(1,0,0),(1,2,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,19),(1,3,14),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((1,3,14),(2,7,32),(2,7,28),(1,3,12),(1,2,9)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,13),(2,7,30),(2,7,32)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,14),(1,3,13),(2,7,32)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,14),(1,2,9),(1,3,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,13),(2,7,28),(2,7,30)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,13),(2,7,28),(1,3,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,9),(1,3,13),(1,3,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,19),(1,3,14),(2,7,32)); lvl=1; h,r-ind=1,1
  [5,3]((2,6,15),(2,8,19),(1,4,15),(2,7,28),(1,3,12)); lvl=1; h,r-ind=1,1
    [5,3]((2,7,22),(2,6,19),(1,3,8),(1,4,10),(1,4,12)); lvl=2; h,r-ind=1,1
      [4,3]((2,7,22),(4,14,43),(1,3,9),(2,6,19)); lvl=3; h,r-ind=1,2; alert-r-inc
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      [3,3]((3,10,31),(1,3,9),(4,14,43)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,22),(3,10,31),(4,14,43)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,19),(3,10,31),(1,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,22),(2,6,19),(3,10,31)); lvl=4; h,r-ind=1,1
    [4,3]((4,14,43),(1,4,12),(1,3,9),(1,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,21),(1,4,12),(1,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,21),(1,3,9),(1,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,14,43),(2,7,21),(1,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((4,14,43),(2,7,21),(1,4,12)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,8),(1,3,9),(1,4,10),(1,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,10),(1,4,11),(2,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(1,4,11),(2,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(1,4,10),(2,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(1,3,8),(2,7,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,22),(4,14,43),(1,4,12)); lvl=3; h,r-ind=1,1
  [4,3]((2,7,27),(2,7,22),(1,4,15),(1,4,12)); lvl=2; h,r-ind=1,1
    [4,3]((4,14,49),(2,7,22),(2,8,27),(1,4,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,13),(2,8,27),(3,11,38)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,24),(1,4,13),(3,11,38)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,24),(4,14,49),(3,11,38)); lvl=4; h,r-ind=1,1
      [3,3]((4,14,47),(2,7,24),(1,4,13)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,22),(4,14,47),(1,4,12),(1,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,12),(4,15,48),(1,4,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,23),(4,15,48),(1,4,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,23),(4,14,47),(1,4,13)); lvl=5; h,r-ind=1,1
        [4,3]((2,7,23),(2,7,22),(1,4,12),(4,15,48)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,7,22),(1,4,12),(3,11,35)); lvl=6; h,r-ind=1,1
          [3,3]((4,15,48),(1,4,12),(3,11,35)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,23),(2,7,22),(3,11,35)); lvl=6; h,r-ind=1,1
          [3,3]((4,15,48),(2,7,23),(3,11,35)); lvl=6; h,r-ind=1,1
  [4,3]((2,7,27),(4,14,49),(1,4,15),(2,8,27)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,38),(2,8,27),(1,4,14)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,25),(3,11,38),(1,4,14)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,25),(4,14,51),(1,4,14)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,27),(4,14,51),(1,4,15),(1,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,14),(1,4,15),(4,15,55)); lvl=5; h,r-ind=1,1
      [4,3]((2,7,26),(2,7,27),(1,4,15),(4,15,55)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,41),(1,4,15),(2,7,27)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,26),(3,11,41),(2,7,27)); lvl=6; h,r-ind=1,1
        [3,3]((4,15,55),(3,11,41),(1,4,15)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,26),(4,15,55),(3,11,41)); lvl=6; h,r-ind=1,1
      [3,3]((2,7,26),(1,4,14),(4,15,55)); lvl=5; h,r-ind=1,1
      [3,3]((4,14,51),(2,7,26),(1,4,14)); lvl=5; h,r-ind=1,1
    [3,3]((4,14,49),(2,7,25),(3,11,38)); lvl=4; h,r-ind=1,1
[4,3]((2,7,27),(2,7,22),(2,6,19),(1,3,12)); lvl=2; h,r-ind=5,1; alert-h-inc
  [3,3]((1,3,10),(2,7,22),(2,6,19)); lvl=3; h,r-ind=1,1
  [4,3]((4,14,49),(2,6,21),(1,3,10),(2,7,22)); lvl=3; h,r-ind=1,1
    [4,3]((5,16,55),(9,29,99),(1,3,10),(2,6,21)); lvl=4; h,r-ind=1,1
      [3,3]((9,29,99),(1,3,10),(6,19,65)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,21),(1,3,10),(6,19,65)); lvl=5; h,r-ind=1,1
      [3,3]((5,16,55),(9,29,99),(6,19,65)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,21),(5,16,55),(6,19,65)); lvl=5; h,r-ind=1,1
    [3,3]((3,10,35),(5,16,55),(2,6,21)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((2,7,24),(3,10,34),(3,10,35),(5,16,55),(9,29,99)); lvl=4; h,r-ind=1,1
      [5,3]((2,7,24),(7,23,79),(12,40,137),(3,10,35),(4,13,45)); lvl=5; h,r-ind=1,1
        [4,3]((9,30,103),(7,23,79),(13,43,148),(15,50,172)); lvl=6; h,r-ind=1,1
          [3,3]((22,73,251),(13,43,148),(7,23,79)); lvl=7; h,r-ind=1,1
          [3,3]((9,30,103),(22,73,251),(7,23,79)); lvl=7; h,r-ind=1,1
          [3,3]((15,50,172),(22,73,251),(13,43,148)); lvl=7; h,r-ind=1,1
          [3,3]((9,30,103),(15,50,172),(22,73,251)); lvl=7; h,r-ind=1,1
        [4,3]((6,20,69),(4,13,45),(13,43,148),(15,50,172)); lvl=6; h,r-ind=1,1
          [3,3]((19,63,217),(13,43,148),(4,13,45)); lvl=7; h,r-ind=1,1
          [3,3]((6,20,69),(19,63,217),(4,13,45)); lvl=7; h,r-ind=1,1
          [3,3]((15,50,172),(19,63,217),(13,43,148)); lvl=7; h,r-ind=1,1
          [3,3]((6,20,69),(15,50,172),(19,63,217)); lvl=7; h,r-ind=1,1
        [3,3]((2,7,24),(6,20,69),(15,50,172)); lvl=6; h,r-ind=1,1
        [3,3]((3,10,35),(6,20,69),(4,13,45)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,24),(3,10,35),(6,20,69)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,24),(9,30,103),(15,50,172)); lvl=6; h,r-ind=1,1
        [3,3]((12,40,137),(9,30,103),(7,23,79)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,24),(12,40,137),(9,30,103)); lvl=6; h,r-ind=1,1
        [3,3]((4,13,45),(7,23,79),(13,43,148)); lvl=6; h,r-ind=1,1
      [4,3]((7,23,79),(8,26,89),(5,16,55),(4,13,45)); lvl=5; h,r-ind=1,1
        [3,3]((8,26,89),(5,16,55),(12,39,134)); lvl=6; h,r-ind=1,1
        [3,3]((4,13,45),(5,16,55),(12,39,134)); lvl=6; h,r-ind=1,1
        [3,3]((7,23,79),(4,13,45),(12,39,134)); lvl=6; h,r-ind=1,1
        [3,3]((7,23,79),(8,26,89),(12,39,134)); lvl=6; h,r-ind=1,1
      [3,3]((8,26,89),(9,29,99),(5,16,55)); lvl=5; h,r-ind=1,1
      [3,3]((8,26,89),(3,10,34),(9,29,99)); lvl=5; h,r-ind=1,1
      [4,3]((7,23,79),(12,40,137),(8,26,89),(3,10,34)); lvl=5; h,r-ind=1,2; alert-r-inc
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            [3,3]((3,10,34),(12,40,137),(10,33,113)); lvl=6; h,r-ind=1,1
            [3,3]((7,23,79),(12,40,137),(10,33,113)); lvl=6; h,r-ind=1,1
            [3,3]((8,26,89),(3,10,34),(10,33,113)); lvl=6; h,r-ind=1,1
            [3,3]((7,23,79),(8,26,89),(10,33,113)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,24),(12,40,137),(3,10,34)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,49),(2,7,24),(3,10,35)); lvl=4; h,r-ind=1,1
        [5,3]((2,7,22),(3,10,34),(4,14,47),(9,29,99),(1,3,10)); lvl=4; h,r-ind=1,1
          [4,3]((1,3,10),(2,7,22),(2,7,23),(7,23,77)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((3,10,33),(2,7,23),(2,7,22)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,10),(3,10,33),(2,7,22)); lvl=6; h,r-ind=1,1
            [3,3]((7,23,77),(3,10,33),(2,7,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,10),(7,23,77),(3,10,33)); lvl=6; h,r-ind=1,1
          [5,3]((5,17,57),(10,33,111),(9,30,101),(2,7,23),(7,23,77)); lvl=5; h,r-ind=1,1
            [3,3]((9,30,101),(6,20,67),(10,33,111)); lvl=6; h,r-ind=1,1
            [3,3]((7,23,77),(6,20,67),(10,33,111)); lvl=6; h,r-ind=1,1
            [3,3]((2,7,23),(7,23,77),(6,20,67)); lvl=6; h,r-ind=1,1
            [3,3]((5,17,57),(9,30,101),(6,20,67)); lvl=6; h,r-ind=1,1
            [3,3]((5,17,57),(2,7,23),(6,20,67)); lvl=6; h,r-ind=1,1
          [4,3]((1,3,10),(4,13,44),(10,33,111),(7,23,77)); lvl=5; h,r-ind=1,1
            [3,3]((4,13,44),(10,33,111),(11,36,121)); lvl=6; h,r-ind=1,1
            [3,3]((7,23,77),(10,33,111),(11,36,121)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,10),(4,13,44),(11,36,121)); lvl=6; h,r-ind=1,1
            [3,3]((7,23,77),(1,3,10),(11,36,121)); lvl=6; h,r-ind=1,1
          [4,3]((3,10,34),(4,13,44),(10,33,111),(9,30,101)); lvl=5; h,r-ind=1,1
            [3,3]((13,43,145),(10,33,111),(4,13,44)); lvl=6; h,r-ind=1,1
            [3,3]((3,10,34),(13,43,145),(4,13,44)); lvl=6; h,r-ind=1,1
            [3,3]((9,30,101),(13,43,145),(10,33,111)); lvl=6; h,r-ind=1,1
            [3,3]((3,10,34),(9,30,101),(13,43,145)); lvl=6; h,r-ind=1,1
          [3,3]((3,10,34),(9,29,99),(4,13,44)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,10),(9,29,99),(4,13,44)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,47),(5,17,57),(2,7,23)); lvl=5; h,r-ind=1,1
          [4,3]((3,10,34),(4,14,47),(5,17,57),(9,30,101)); lvl=5; h,r-ind=1,1
            [3,3]((4,14,47),(8,27,91),(5,17,57)); lvl=6; h,r-ind=1,1
            [3,3]((9,30,101),(8,27,91),(5,17,57)); lvl=6; h,r-ind=1,1
            [3,3]((3,10,34),(4,14,47),(8,27,91)); lvl=6; h,r-ind=1,1
            [3,3]((9,30,101),(3,10,34),(8,27,91)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,24),(3,10,34),(4,14,47)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,27),(4,14,49),(1,3,12),(2,6,21)); lvl=3; h,r-ind=1,1
        [3,3]((3,10,35),(2,6,21),(1,3,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,25),(3,10,35),(1,3,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,25),(4,14,51),(1,3,11)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,27),(4,14,51),(1,3,12),(1,3,11)); lvl=4; h,r-ind=1,1
          [3,3]((4,13,49),(1,3,11),(1,3,12)); lvl=5; h,r-ind=1,1
          [4,3]((2,7,27),(2,7,26),(4,13,49),(1,3,12)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,7,26),(4,13,49),(3,10,38)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,12),(4,13,49),(3,10,38)); lvl=6; h,r-ind=1,1
            [3,3]((2,7,27),(2,7,26),(3,10,38)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,12),(2,7,27),(3,10,38)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,26),(4,13,49),(1,3,11)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,51),(2,7,26),(1,3,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,25),(4,14,49),(3,10,35)); lvl=4; h,r-ind=1,1
  [3,3]((2,7,27),(1,4,15),(2,7,28)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,27),(1,3,12),(2,7,28)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,17),(1,3,8),(1,4,10)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,17),(2,8,19),(1,4,10)); lvl=2; h,r-ind=1,1
  [3,3]((2,6,15),(2,7,17),(1,3,8)); lvl=2; h,r-ind=1,1
[4,3]((1,4,19),(2,7,32),(1,4,15),(2,7,28)); lvl=1; h,r-ind=4,1
  [4,3]((1,4,17),(1,4,15),(2,7,30),(2,7,28)); lvl=2; h,r-ind=2,1
    [4,3]((1,4,16),(1,4,15),(2,7,29),(2,7,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,29),(2,7,28),(3,11,44)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,15),(2,7,28),(3,11,44)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,16),(1,4,15),(3,11,44)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,16),(2,7,29),(3,11,44)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,17),(1,4,16),(2,7,29),(2,7,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,16),(2,7,29),(3,11,46)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,30),(2,7,29),(3,11,46)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,17),(1,4,16),(3,11,46)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,30),(1,4,17),(3,11,46)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,19),(1,4,17),(2,7,32),(2,7,30)); lvl=2; h,r-ind=2,1
    [4,3]((1,4,18),(1,4,17),(2,7,31),(2,7,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,31),(2,7,30),(3,11,48)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,17),(2,7,30),(3,11,48)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,18),(1,4,17),(3,11,48)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,18),(2,7,31),(3,11,48)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,19),(1,4,18),(2,7,31),(2,7,32)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,18),(2,7,31),(3,11,50)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,32),(2,7,31),(3,11,50)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,19),(1,4,18),(3,11,50)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,32),(1,4,19),(3,11,50)); lvl=4; h,r-ind=1,1
[4,3]((0,1,0),(2,6,15),(2,8,19),(1,0,0)); lvl=1; h,r-ind=1,1
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```
[4,3]((1,2,5),(2,7,16),(2,6,15),(2,7,17)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,7),(2,7,17),(5,16,39)); lvl=3; h,r-ind=1,1
  [3,3]((2,6,15),(2,7,17),(5,16,39)); lvl=3; h,r-ind=1,1
  [4,3]((2,6,15),(1,2,5),(1,3,7),(5,16,39)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((3,9,22),(1,3,7),(1,2,5)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,15),(3,9,22),(1,2,5)); lvl=4; h,r-ind=1,1
    [3,3]((5,16,39),(3,9,22),(1,3,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,15),(5,16,39),(3,9,22)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,7),(2,7,16),(2,7,17)); lvl=3; h,r-ind=1,1
[4,3]((1,4,9),(2,7,16),(2,8,19),(2,7,17)); lvl=2; h,r-ind=1,1
  [3,3]((3,11,26),(2,7,17),(2,7,16)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,9),(3,11,26),(2,7,16)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,9),(3,11,26),(2,8,19)); lvl=3; h,r-ind=1,1
  [3,3]((3,11,26),(2,8,19),(2,7,17)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,4,9),(2,8,19)); lvl=2; h,r-ind=1,1
[4,3]((1,2,5),(1,2,4),(1,3,6),(2,7,16)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,6),(1,2,4),(3,8,17)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,7),(1,2,5),(1,2,4),(3,8,17)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((1,2,5),(2,5,11),(1,2,4)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,17),(2,5,11),(1,2,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,7),(1,2,5),(2,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,17),(1,3,7),(2,5,11)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,7),(1,3,6),(3,8,17)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,16),(1,3,7),(1,3,6)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(1,2,5),(1,2,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[4,3]((1,4,9),(1,3,6),(2,7,16),(1,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,15),(1,3,6),(2,7,16)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,9),(2,7,15),(2,7,16)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,15),(2,7,14),(1,3,6)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,6),(2,8,15),(2,7,14),(1,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,7),(2,8,15),(2,7,14),(4,14,27)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,14),(2,8,15),(3,11,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,7),(2,8,15),(3,11,21)); lvl=5; h,r-ind=1,1
      [3,3]((4,14,27),(1,4,7),(3,11,21)); lvl=5; h,r-ind=1,1
      [3,3]((4,14,27),(2,7,14),(3,11,21)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,6),(2,7,14),(4,14,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(1,4,7),(4,14,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(1,4,6),(1,4,7)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,9),(2,8,15),(2,7,15),(2,7,14)); lvl=3; h,r-ind=1,1
    [3,3]((5,18,37),(2,7,14),(2,7,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,9),(1,4,8),(5,18,37),(2,7,15)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,4,8),(5,18,37),(3,11,23)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,15),(5,18,37),(3,11,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,9),(1,4,8),(3,11,23)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,15),(1,4,9),(3,11,23)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,8),(5,18,37),(2,7,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(2,8,15),(2,7,14)); lvl=4; h,r-ind=1,1
[3,3]((0,1,0),(1,4,9),(1,4,6)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[5,3]((1,2,3),(1,4,5),(1,2,4),(1,3,6),(1,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,5),(1,3,6),(1,4,6)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,5),(1,4,5),(1,4,6)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,4),(1,3,5),(1,4,5)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,3),(1,3,4),(1,3,5)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,5),(1,3,6),(1,2,4)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,3),(1,3,5),(1,2,4)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,4,5),(1,4,6)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,2,3),(1,2,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[4,3]((0,1,0),(1,0,0),(1,2,3),(1,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,1),(1,0,0),(1,2,3)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,4),(1,1,1),(2,5,5),(1,2,3)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(3,7,9),(1,1,1),(1,2,2)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,2),(3,7,9),(2,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,9),(2,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,2),(2,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,1),(2,4,5)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,4),(3,7,9),(1,2,2)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,5),(1,2,2)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(1,2,3),(3,7,9)); lvl=4; h,r-ind=1,1
  [4,3]((0,1,0),(1,4,5),(1,3,4),(2,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,8),(1,4,5),(1,3,4)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,8),(2,7,7),(1,3,3),(1,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(3,10,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,8),(2,7,7),(3,10,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,8),(3,10,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(3,10,11)); lvl=5; h,r-ind=1,1
    [3,3]((2,5,5),(1,3,3),(1,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,5),(1,3,3)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,7),(1,3,3)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(2,7,8),(2,7,7),(1,4,5)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,4,4),(2,7,7),(2,7,8)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((1,4,5),(1,4,4),(2,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(1,4,4),(2,7,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(0,1,0),(1,4,4)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,1,1),(2,5,5)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,8,19),(1,4,15)); lvl=1; h,r-ind=11,11; optimized-h
  [3,3]((1,4,19),(0,1,0),(1,4,15)); lvl=1; h,r-ind=4,4; optimized-h
```

19.15 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,5,19)); lvl=0; h,r-ind=19,361
  [5,3]((2,9,33),(1,4,12),(2,9,27),(1,4,15),(2,5,18)); lvl=1; h,r-ind=3,1
    [3,3]((1,4,13),(1,4,12),(2,9,27)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,30),(1,4,13),(2,8,27),(2,9,27)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,27),(5,21,69),(1,4,13)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,27),(4,18,57),(5,21,69),(1,4,13)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,4,13),(7,30,96),(3,13,42),(5,21,69)); lvl=4; h,r-ind=1,3
          [3,3]((7,30,96),(4,17,55),(3,13,42)); lvl=5; h,r-ind=1,1
          [3,3]((5,21,69),(4,17,55),(3,13,42)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,13),(5,21,69),(4,17,55)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,13),(7,30,96),(4,17,55)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,28),(7,30,96),(3,13,42)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,9,28),(4,18,57),(3,13,42)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,13),(2,9,28),(2,9,27),(7,30,96)); lvl=4; h,r-ind=1,3
          [3,3]((2,9,27),(3,13,41),(2,9,28)); lvl=5; h,r-ind=1,1
          [3,3]((7,30,96),(3,13,41),(2,9,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,13),(7,30,96),(3,13,41)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,13),(2,9,27),(3,13,41)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,30),(4,18,57),(5,21,69)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,9,30),(2,8,27),(5,21,69)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,9,33),(2,9,30),(2,8,27),(1,4,14)); lvl=2; h,r-ind=1,1
      [3,3]((5,21,72),(2,9,30),(2,8,27)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((5,21,72),(1,4,14),(2,8,27)); lvl=3; h,r-ind=1,1
      [4,3]((4,18,63),(2,9,33),(5,21,72),(1,4,14)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((7,30,105),(1,4,14),(2,9,33),(2,9,32)); lvl=4; h,r-ind=1,3
          [3,3]((3,13,46),(1,4,14),(2,9,33)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,32),(3,13,46),(2,9,33)); lvl=5; h,r-ind=1,1
          [3,3]((7,30,105),(3,13,46),(1,4,14)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,32),(7,30,105),(3,13,46)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,45),(7,30,105),(2,9,32)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((4,18,63),(3,13,45),(2,9,32)); lvl=4; h,r-ind=1,1
        [4,3]((3,13,45),(7,30,105),(5,21,72),(1,4,14)); lvl=4; h,r-ind=1,3
          [3,3]((7,30,105),(4,17,59),(1,4,14)); lvl=5; h,r-ind=1,1
          [3,3]((5,21,72),(4,17,59),(1,4,14)); lvl=5; h,r-ind=1,1
          [3,3]((3,13,45),(5,21,72),(4,17,59)); lvl=5; h,r-ind=1,1
          [3,3]((3,13,45),(7,30,105),(4,17,59)); lvl=5; h,r-ind=1,1
      [3,3]((4,18,63),(5,21,72),(2,9,30)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,9,33),(1,4,15),(1,4,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,13),(3,11,37),(1,3,10),(1,4,12)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,10),(2,7,23),(3,11,37)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,13),(2,7,23),(3,11,37)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,13),(1,4,12),(2,7,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,12),(1,3,10),(2,7,23)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,13),(3,11,37),(2,8,27),(4,15,51)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,37),(4,15,51),(5,19,64)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,27),(4,15,51),(5,19,64)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,13),(3,11,37),(5,19,64)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,27),(1,4,13),(5,19,64)); lvl=3; h,r-ind=1,1
    [5,3]((1,3,11),(3,11,37),(3,11,38),(4,15,51),(1,3,10)); lvl=2; h,r-ind=1,1
      [3,3]((4,15,51),(2,7,24),(3,11,37)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,10),(2,7,24),(3,11,37)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,11),(1,3,10),(2,7,24)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,38),(4,15,51),(2,7,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,11),(3,11,38),(2,7,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,11),(1,3,10),(2,5,18)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,27),(1,4,14),(3,11,38),(4,15,51)); lvl=2; h,r-ind=1,1
      [3,3]((5,19,65),(3,11,38),(1,4,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,27),(5,19,65),(1,4,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,51),(2,8,27),(5,19,65)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,51),(5,19,65),(3,11,38)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,15),(1,3,11),(1,4,14),(3,11,38)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,11),(3,11,38),(2,7,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,14),(3,11,38),(2,7,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,14),(1,4,15),(2,7,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,15),(1,3,11),(2,7,25)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,4,15),(2,5,18)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,5,19),(1,0,0),(1,4,15)); lvl=1; h,r-ind=1,1
```

```
[4,3]((1,4,12),(1,0,0),(1,4,8),(2,5,18)); lvl=1; h,r-ind=4,4
  [3,3]((1,0,0),(2,3,10),(1,2,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,6),(2,3,10),(1,2,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,10),(1,2,6),(1,2,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,18),(1,0,0),(1,2,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,10),(2,5,18),(1,2,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,6),(1,0,0),(2,3,10)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,2,6),(1,2,4),(1,0,0)); lvl=2; h,r-ind=4,2; optimized-h
  [4,3]((1,4,8),(1,4,10),(1,2,6),(1,2,4)); lvl=2; h,r-ind=4,2
    [4,3]((1,3,7),(1,2,5),(1,2,6),(1,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,6),(2,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(1,2,6),(2,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(1,2,5),(2,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(1,3,7),(2,5,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,7),(1,4,9),(1,4,10),(1,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(1,4,10),(2,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(1,4,10),(2,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(1,4,9),(2,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(1,3,7),(2,7,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,6),(1,4,8),(1,3,7),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(1,4,9),(2,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(1,4,9),(2,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,8),(2,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,6),(2,7,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,6),(1,3,7),(1,2,4),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,5),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(1,2,5),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(1,2,4),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,6),(2,5,11)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,12),(1,3,10),(1,4,10),(1,2,6)); lvl=2; h,r-ind=2,2
    [3,3]((1,2,6),(1,3,9),(1,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,12),(1,3,9),(1,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,12),(1,4,11),(1,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(1,2,6),(1,3,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,11),(1,4,10),(1,3,8),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,10),(1,3,8),(2,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(1,3,8),(2,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(1,4,10),(2,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(1,4,11),(2,7,19)); lvl=4; h,r-ind=1,1
[5,3]((1,5,14),(1,4,12),(2,9,27),(2,10,19),(1,4,8)); lvl=1; h,r-ind=1,1
  [4,3]((2,9,22),(2,9,26),(1,4,12),(1,4,10)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((2,9,26),(2,9,24),(1,4,12),(1,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,12),(1,4,11),(4,17,48)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,25),(2,9,24),(1,4,11),(4,17,48)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,36),(1,4,11),(2,9,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,25),(3,13,36),(2,9,24)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,48),(3,13,36),(1,4,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,25),(4,17,48),(3,13,36)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,26),(2,9,25),(1,4,12),(4,17,48)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,25),(4,17,48),(3,13,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,12),(4,17,48),(3,13,37)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,26),(2,9,25),(3,13,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,12),(2,9,26),(3,13,37)); lvl=5; h,r-ind=1,1
    [4,3]((2,9,22),(1,4,10),(2,9,24),(1,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,11),(1,4,10),(4,17,44)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,23),(2,9,22),(1,4,10),(4,17,44)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,10),(3,13,33),(2,9,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,23),(3,13,33),(2,9,22)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,44),(2,9,23),(3,13,33)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,44),(1,4,10),(3,13,33)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,24),(2,9,23),(1,4,11),(4,17,44)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,23),(4,17,44),(3,13,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,11),(4,17,44),(3,13,34)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,24),(2,9,23),(3,13,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,11),(2,9,24),(3,13,34)); lvl=5; h,r-ind=1,1
  [5,3]((2,10,23),(2,9,22),(1,5,10),(1,4,8),(1,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,10),(4,18,43),(2,9,22)); lvl=3; h,r-ind=1,1
    [4,3]((2,10,23),(1,5,11),(4,18,43),(2,9,22)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,14,33),(4,18,43),(1,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,23),(3,14,33),(1,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,22),(2,10,23),(3,14,33)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,22),(3,14,33),(4,18,43)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,11),(1,4,10),(4,18,43),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,21),(1,4,10),(4,18,43)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(2,9,21),(4,18,43)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,21),(1,4,9),(1,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(2,9,21),(1,4,9)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,10),(1,5,11),(1,4,8),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(1,4,9),(2,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(1,4,9),(2,9,19)); lvl=4; h,r-ind=1,1
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      [3,3]((1,5,10),(1,4,8),(2,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(1,5,10),(2,9,19)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,10),(2,10,19),(1,4,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,26),(2,9,27),(1,4,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,14),(2,9,26),(2,9,27)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,14),(2,10,23),(2,9,22),(2,9,26)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,12),(2,10,23),(2,9,22)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,12),(2,10,25),(2,9,24),(2,9,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,48),(2,10,25),(2,9,24)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((4,19,48),(2,9,23),(2,9,24)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,5,12),(4,19,48),(2,9,22),(2,9,23)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,35),(2,9,22),(2,9,23)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,48),(3,14,35),(2,9,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,12),(4,19,48),(3,14,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,12),(3,14,35),(2,9,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,12),(4,19,48),(2,10,25)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,14),(2,10,25),(2,9,26),(2,9,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,13),(2,9,25),(2,9,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,13),(2,10,25),(2,9,24)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,13),(1,5,14),(2,9,26),(2,9,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,14),(2,9,26),(3,14,39)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,25),(2,9,26),(3,14,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,13),(1,5,14),(3,14,39)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,25),(1,5,13),(3,14,39)); lvl=5; h,r-ind=1,1
[4,3]((0,1,0),(1,0,0),(2,10,19),(1,4,8)); lvl=1; h,r-ind=1,1
  [4,3]((1,5,9),(1,3,5),(1,2,4),(1,4,8)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((1,4,7),(1,3,6),(1,3,5),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,2,4),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,4),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(1,3,6),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,4,7),(2,6,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,9),(1,4,7),(1,3,6),(1,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(1,3,6),(2,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,3,6),(2,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(1,4,7),(2,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,9),(2,8,15)); lvl=4; h,r-ind=1,1
  [3,3]((2,10,19),(1,5,9),(1,4,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,9),(1,5,5),(1,3,5)); lvl=2; h,r-ind=8,4; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,5,9),(1,5,5)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,10,19),(0,1,0),(1,5,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,5),(1,0,0),(1,3,5),(1,2,4)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((2,5,7),(2,5,8),(1,1,2),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,8),(4,9,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(2,5,7),(2,5,8),(4,9,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,11),(2,5,7),(2,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,15),(3,7,11),(2,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(4,9,15),(3,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(3,7,11),(2,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,4),(4,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(1,2,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,8),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(2,5,7),(1,3,5),(2,5,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(4,11,17),(2,5,8),(2,5,7)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,12),(4,11,17),(2,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,7),(3,8,12),(2,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,7),(3,8,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,12),(4,11,17)); lvl=5; h,r-ind=1,1
      [3,3]((4,11,17),(1,3,5),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(4,11,17),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,5),(1,3,5)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,5),(2,5,7),(1,1,2),(1,0,0)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,3,3),(1,2,3),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,3,3),(1,1,1)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,6),(1,2,3),(1,1,1)); lvl=5; h,r-ind=1,1
        [4,3]((1,0,0),(1,1,2),(3,4,6),(1,1,1)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,2,3),(1,1,2),(3,4,6)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(3,4,6)); lvl=6; h,r-ind=1,1
          [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(1,0,0),(2,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,2),(3,4,6),(1,2,3)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(1,2,2),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(2,5,7),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,5),(2,5,6),(1,2,2)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,5),(1,5,5),(2,5,5),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(2,7,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,5),(1,3,4),(1,5,5),(2,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,4),(3,11,13)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,5),(1,5,5),(1,4,4),(3,11,13)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,8,9),(1,5,5),(1,4,4)); lvl=6; h,r-ind=1,1
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            [3,3]((3,11,13),(2,8,9),(1,4,4)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,5),(3,11,13),(2,8,9)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,5),(2,8,9),(1,5,5)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(1,3,4),(3,11,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(2,7,7),(1,4,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,6),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(2,5,5),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,6),(2,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,0,0)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,5,14),(0,1,0),(2,10,19)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((1,5,19),(1,5,14),(0,1,0)); lvl=1; h,r-ind=5,5; optimized-h
  [4,3]((1,5,19),(1,5,14),(2,9,33),(2,9,27)); lvl=1; h,r-ind=1,1
    [4,3]((2,10,33),(1,5,14),(2,9,30),(2,9,27)); lvl=2; h,r-ind=1,1
      [4,3]((2,10,31),(1,5,14),(2,9,27),(4,18,57)); lvl=3; h,r-ind=3,1; alert-h-inc
        [4,3]((1,5,15),(1,5,14),(2,9,28),(2,9,27)); lvl=4; h,r-ind=1,1
          [3,3]((2,9,28),(2,9,27),(3,14,42)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(2,9,27),(3,14,42)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,15),(1,5,14),(3,14,42)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,15),(2,9,28),(3,14,42)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,44),(1,5,15),(2,9,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,44),(4,18,57),(2,9,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,31),(3,14,44),(1,5,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,16),(2,10,31),(2,9,30),(4,18,57)); lvl=3; h,r-ind=1,1
        [3,3]((3,14,44),(2,9,29),(4,18,57)); lvl=4; h,r-ind=1,1
        [4,3]((7,33,105),(3,14,44),(4,19,60),(2,9,29)); lvl=4; h,r-ind=1,1
          [3,3]((4,19,60),(6,28,89),(3,14,44)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,29),(6,28,89),(3,14,44)); lvl=5; h,r-ind=1,1
          [3,3]((7,33,105),(4,19,60),(6,28,89)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,29),(7,33,105),(6,28,89)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,16),(7,33,105),(2,9,30),(2,9,29)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,9,30),(3,14,45),(2,9,29)); lvl=5; h,r-ind=1,1
          [3,3]((7,33,105),(3,14,45),(2,9,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,16),(2,9,30),(3,14,45)); lvl=5; h,r-ind=1,1
          [3,3]((7,33,105),(1,5,16),(3,14,45)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,31),(3,14,44),(4,19,60)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,16),(7,33,105),(2,10,31),(4,19,60)); lvl=4; h,r-ind=1,1
          [3,3]((7,33,105),(5,24,76),(4,19,60)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,31),(5,24,76),(4,19,60)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,16),(2,10,31),(5,24,76)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,16),(7,33,105),(5,24,76)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,33),(1,5,16),(2,9,30)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,19),(2,10,33),(2,9,33),(2,9,30)); lvl=2; h,r-ind=1,1
      [4,3]((2,10,35),(1,5,17),(4,18,63),(2,9,30)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,17),(7,33,114),(2,9,30),(2,9,31)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,9,30),(3,14,48),(2,9,31)); lvl=5; h,r-ind=1,1
          [3,3]((7,33,114),(3,14,48),(2,9,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,17),(2,9,30),(3,14,48)); lvl=5; h,r-ind=1,1
          [3,3]((7,33,114),(1,5,17),(3,14,48)); lvl=5; h,r-ind=1,1
        [4,3]((4,19,66),(7,33,114),(3,14,49),(2,9,31)); lvl=4; h,r-ind=1,1
          [3,3]((2,9,31),(6,28,97),(7,33,114)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,66),(6,28,97),(7,33,114)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,66),(3,14,49),(6,28,97)); lvl=5; h,r-ind=1,1
          [3,3]((3,14,49),(2,9,31),(6,28,97)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,49),(4,18,63),(2,9,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,35),(4,19,66),(3,14,49)); lvl=4; h,r-ind=1,1
        [4,3]((2,10,35),(4,19,66),(1,5,17),(7,33,114)); lvl=4; h,r-ind=1,1
          [3,3]((4,19,66),(7,33,114),(5,24,83)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,17),(7,33,114),(5,24,83)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,35),(4,19,66),(5,24,83)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,17),(2,10,35),(5,24,83)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,33),(1,5,17),(2,9,30)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,19),(2,10,35),(2,9,33),(4,18,63)); lvl=3; h,r-ind=3,1; alert-h-inc
        [3,3]((3,14,49),(4,18,63),(2,9,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,18),(3,14,49),(2,9,32)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,19),(1,5,18),(2,9,33),(2,9,32)); lvl=4; h,r-ind=1,1
          [3,3]((2,9,33),(2,9,32),(3,14,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,18),(2,9,32),(3,14,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,19),(1,5,18),(3,14,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,19),(2,9,33),(3,14,51)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,35),(1,5,18),(3,14,49)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,19),(2,9,33),(1,4,15)); lvl=1; h,r-ind=1,1
```

19.16 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,6,19)); lvl=0; h,r-ind=19,361
  [5,3]((2,12,19),(1,6,13),(1,1,3),(1,1,2),(2,7,21)); lvl=1; h,r-ind=5,1
    [7,3]((1,6,13),(1,4,8),(1,6,11),(2,7,15),(2,7,16),(2,9,23),(1,4,10)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((1,6,11),(1,6,12),(2,10,21),(1,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,22),(1,6,12),(2,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,22),(1,5,10),(2,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(2,11,22),(1,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(2,11,22),(1,6,12)); lvl=4; h,r-ind=1,1
    [4,3]((2,9,20),(2,9,19),(2,10,21),(1,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,21),(3,14,30),(1,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,19),(3,14,30),(1,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,20),(2,9,19),(3,14,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,20),(2,10,21),(3,14,30)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,8),(2,8,17),(2,9,19),(1,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,17),(2,9,19),(3,13,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(2,9,19),(3,13,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(2,8,17),(3,13,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(1,4,8),(3,13,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(2,7,15),(2,8,17)); lvl=3; h,r-ind=1,1
    [4,3]((2,8,17),(1,4,9),(2,9,20),(2,9,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(2,9,20),(3,13,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,19),(2,9,20),(3,13,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,17),(1,4,9),(3,13,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,19),(2,8,17),(3,13,28)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,15),(2,8,17),(1,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,15),(2,7,16),(1,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(1,6,11),(1,5,10)); lvl=3; h,r-ind=1,1
    [5,3]((1,5,12),(2,9,20),(1,6,13),(1,6,12),(2,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,12),(1,5,11),(2,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,20),(1,5,11),(2,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(2,9,20),(1,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,13),(1,6,12),(1,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(1,6,13),(1,5,11)); lvl=4; h,r-ind=1,1
    [5,3]((2,9,22),(3,13,31),(1,5,12),(3,13,30),(2,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,20),(3,13,30),(2,9,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,31),(3,13,30),(2,9,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,22),(3,13,31),(2,9,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(2,9,20),(2,9,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,22),(1,5,12),(2,9,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,9),(3,13,30),(2,9,20)); lvl=3; h,r-ind=1,1
    [4,3]((3,13,31),(1,4,10),(1,4,9),(3,13,30)); lvl=3; h,r-ind=1,1
      [3,3]((4,17,40),(1,4,9),(1,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,31),(4,17,40),(1,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,30),(4,17,40),(1,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,31),(3,13,30),(4,17,40)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,16),(1,4,10),(1,4,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,23),(2,9,22),(3,13,31),(1,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,32),(2,9,22),(3,13,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,10),(3,13,32),(3,13,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,23),(3,13,32),(2,9,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,10),(2,9,23),(3,13,32)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,23),(2,9,22),(1,5,12)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,11),(2,9,23),(1,4,10)); lvl=2; h,r-ind=1,1
  [5,3]((1,4,11),(1,3,9),(1,3,8),(2,7,16),(1,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,8),(4,13,35),(1,3,9)); lvl=3; h,r-ind=1,1
    [5,3]((1,4,11),(4,15,39),(4,13,35),(2,7,18),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,29),(2,7,18),(4,15,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(3,11,29),(4,15,39)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,29),(5,18,48),(2,7,18),(4,14,37)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,18),(4,14,37),(7,25,66)); lvl=5; h,r-ind=1,1
        [3,3]((5,18,48),(4,14,37),(7,25,66)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,29),(5,18,48),(7,25,66)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,29),(2,7,18),(7,25,66)); lvl=5; h,r-ind=1,1
      [4,3]((2,7,18),(4,14,37),(5,17,46),(3,10,27)); lvl=4; h,r-ind=1,1
        [3,3]((7,24,64),(5,17,46),(4,14,37)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,18),(7,24,64),(4,14,37)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,27),(2,7,18),(7,24,64)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,27),(7,24,64),(5,17,46)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,18),(4,13,35),(3,10,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(4,13,35),(3,10,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(5,17,46),(3,10,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(3,11,29),(5,18,48)); lvl=4; h,r-ind=1,1
      [4,3]((5,18,48),(2,7,19),(4,14,37),(5,17,46)); lvl=4; h,r-ind=1,1
        [3,3]((6,21,56),(2,7,19),(5,17,46)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,37),(6,21,56),(5,17,46)); lvl=5; h,r-ind=1,1
        [3,3]((5,18,48),(6,21,56),(2,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,37),(5,18,48),(6,21,56)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,9),(2,7,19),(5,17,46)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(1,3,9),(2,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(5,18,48),(2,7,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,11),(4,15,39),(1,4,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,8),(4,13,35),(2,7,18),(2,7,17)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,10,26),(4,13,35),(2,7,18)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,7,17),(3,10,26),(2,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(2,7,17),(3,10,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(3,10,26),(4,13,35)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,8),(2,7,17),(2,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,10),(2,7,17),(2,7,16)); lvl=3; h,r-ind=1,1
    [4,3]((4,15,39),(1,4,10),(2,7,18),(2,7,17)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,11,28),(2,7,18),(2,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,28),(1,4,10),(2,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((4,15,39),(3,11,28),(1,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,15,39),(3,11,28),(2,7,18)); lvl=4; h,r-ind=1,1
  [3,3]((2,7,21),(1,4,11),(1,3,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,9),(2,5,15),(1,3,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,14),(1,4,8),(2,7,15)); lvl=2; h,r-ind=1,1
  [5,3]((1,6,10),(1,5,8),(1,4,7),(2,7,14),(1,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,7),(4,18,31),(1,5,8)); lvl=3; h,r-ind=1,1
    [5,3]((1,6,10),(1,5,9),(2,9,16),(4,18,31),(1,5,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,9),(4,19,33),(2,10,17),(5,24,41)); lvl=4; h,r-ind=1,1
        [3,3]((4,19,33),(5,24,41),(6,29,50)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,17),(5,24,41),(6,29,50)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(2,10,17),(6,29,50)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(4,19,33),(6,29,50)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(2,10,17),(5,24,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(1,5,8),(2,10,17)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,16),(3,14,24),(4,19,33),(5,24,41)); lvl=4; h,r-ind=1,1
        [3,3]((7,33,57),(5,24,41),(3,14,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,16),(7,33,57),(3,14,24)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,33),(7,33,57),(5,24,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,16),(4,19,33),(7,33,57)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(3,14,24),(5,24,41)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(4,18,31),(3,14,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(4,18,31),(3,14,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(1,5,9),(2,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(1,5,9),(4,19,33)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,7),(2,8,15),(2,9,16),(4,18,31)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,13,23),(2,8,15),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,31),(3,13,23),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(4,18,31),(3,13,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,13,23),(2,8,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(2,8,15),(2,7,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(2,8,15),(2,7,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,9),(1,4,8),(2,8,15),(2,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(2,8,15),(3,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(2,8,15),(3,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(1,4,8),(3,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(1,5,9),(3,13,24)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,10),(1,4,8),(1,6,11)); lvl=2; h,r-ind=2,2; alert-r-inc; optimized-h
  [3,3]((1,5,8),(1,4,7),(2,8,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,10),(1,5,8),(2,12,19)); lvl=2; h,r-ind=1,1
  [6,3]((1,1,3),(2,3,7),(2,5,15),(1,3,8),(2,7,15),(2,7,16)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(2,5,12),(2,3,7),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(4,9,21),(2,4,9)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,2,5),(2,3,7),(4,9,21),(2,4,9)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,6,14),(2,3,7),(2,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,21),(3,6,14),(2,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(4,9,21),(3,6,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(3,6,14),(2,3,7)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,12),(2,5,11),(4,9,21)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,5),(2,5,12),(4,9,21)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,12),(1,3,7),(2,7,15),(2,5,11)); lvl=3; h,r-ind=1,1
      [4,3]((4,11,25),(1,3,7),(2,7,15),(2,6,13)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,7),(2,7,15),(3,9,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,13),(2,7,15),(3,9,20)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,25),(1,3,7),(3,9,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,13),(4,11,25),(3,9,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,11),(4,11,25),(2,6,13)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,5,12),(4,11,25),(1,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(2,5,12),(4,11,25)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,7),(2,7,15),(2,7,16)); lvl=3; h,r-ind=1,1
    [4,3]((3,8,20),(2,5,12),(4,10,25),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,25),(2,5,12),(5,13,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,12),(5,13,32)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,20),(1,3,7),(5,13,32)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,20),(4,10,25),(5,13,32)); lvl=4; h,r-ind=1,1
    [4,3]((3,8,20),(3,8,21),(1,3,7),(1,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,8),(4,11,28)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,21),(1,3,8),(4,11,28)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,20),(1,3,7),(4,11,28)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,21),(3,8,20),(4,11,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,7),(2,7,16),(1,3,8)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,14),(3,8,21),(2,5,15),(1,3,8)); lvl=3; h,r-ind=1,1
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      [3,3]((1,3,8),(3,8,22),(3,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,14),(3,8,22),(3,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,15),(2,5,14),(3,8,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,15),(1,3,8),(3,8,22)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,5),(2,5,12),(3,7,18),(4,10,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(4,10,25),(5,12,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,18),(4,10,25),(5,12,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,12),(5,12,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,18),(1,2,5),(5,12,30)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,3),(1,2,6),(1,2,5),(3,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,11),(1,2,6),(3,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,11),(1,2,5),(3,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(2,4,11),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(2,4,11),(1,2,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,6),(2,5,14),(2,5,15)); lvl=3; h,r-ind=1,1
    [6,3]((1,2,6),(2,5,14),(3,8,20),(3,7,18),(4,10,25),(3,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,13),(3,7,18),(4,10,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(3,8,20),(4,10,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(3,8,21),(3,8,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(2,5,14),(3,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,5,13),(3,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,5,13),(2,5,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,3),(1,2,5),(2,3,7)); lvl=3; h,r-ind=1,1
  [4,3]((2,7,14),(1,1,2),(2,3,7),(2,7,15)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(2,5,10),(2,5,11),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,11),(2,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,9),(2,5,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,2),(1,2,4),(2,3,7),(2,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(2,4,9),(3,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,7),(2,4,9),(3,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(1,2,4),(3,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,7),(1,1,2),(3,5,11)); lvl=5; h,r-ind=1,1
    [4,3]((2,7,15),(1,3,6),(2,5,10),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,23),(1,3,6),(2,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(4,11,23),(2,5,10)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,6,13),(2,5,11),(4,11,23)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((2,6,13),(2,7,15),(4,11,23),(1,3,6)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,9,19),(2,7,15),(1,3,6)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,23),(3,9,19),(1,3,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,13),(4,11,23),(3,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,13),(3,9,19),(2,7,15)); lvl=5; h,r-ind=1,1
    [3,3]((2,7,15),(2,7,14),(1,3,6)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,7),(2,8,13),(2,7,14),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(2,8,13),(2,7,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,7),(6,21,37),(2,8,13),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((6,21,37),(3,11,19),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,13),(3,11,19),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,8,13),(3,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(6,21,37),(3,11,19)); lvl=4; h,r-ind=1,1
    [5,3]((1,4,7),(6,21,37),(3,10,18),(1,3,6),(2,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,18),(4,14,25),(6,21,37)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(4,14,25),(6,21,37)); lvl=4; h,r-ind=1,1
      [4,3]((3,10,18),(5,17,31),(4,14,25),(6,21,38)); lvl=4; h,r-ind=1,1
        [3,3]((6,21,38),(4,14,25),(9,31,56)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,18),(4,14,25),(9,31,56)); lvl=5; h,r-ind=1,1
        [3,3]((5,17,31),(3,10,18),(9,31,56)); lvl=5; h,r-ind=1,1
        [3,3]((5,17,31),(6,21,38),(9,31,56)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,7),(4,14,25),(6,21,38)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,18),(5,17,31),(1,3,6)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,13),(5,17,31),(6,21,38),(1,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,17,31),(6,21,38),(7,24,44)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,13),(6,21,38),(7,24,44)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(2,7,13),(7,24,44)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(5,17,31),(7,24,44)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,14),(2,7,13),(1,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,7,14),(2,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,7,13),(6,21,38)); lvl=4; h,r-ind=1,1
    [5,3]((6,21,37),(3,10,18),(2,6,11),(1,3,5),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((7,23,41),(2,6,11),(3,10,18)); lvl=4; h,r-ind=1,1
      [4,3]((5,17,30),(7,23,41),(9,30,53),(3,10,18)); lvl=4; h,r-ind=1,1
        [3,3]((9,30,53),(7,23,41),(12,40,71)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,18),(7,23,41),(12,40,71)); lvl=5; h,r-ind=1,1
        [3,3]((5,17,30),(3,10,18),(12,40,71)); lvl=5; h,r-ind=1,1
        [3,3]((5,17,30),(9,30,53),(12,40,71)); lvl=5; h,r-ind=1,1
      [3,3]((6,21,37),(5,17,30),(3,10,18)); lvl=4; h,r-ind=1,1
      [5,3]((6,20,35),(7,23,41),(9,30,53),(2,6,11),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,23),(2,6,11),(1,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((4,13,23),(6,20,35),(1,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((9,30,53),(4,13,23),(6,20,35)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,41),(4,13,23),(2,6,11)); lvl=5; h,r-ind=1,1
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          [3,3]((7,23,41),(9,30,53),(4,13,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,12),(6,20,35),(1,3,5)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,12),(5,17,30),(6,20,35),(9,30,53)); lvl=4; h,r-ind=1,1
          [3,3]((9,30,53),(6,20,35),(11,37,65)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,12),(6,20,35),(11,37,65)); lvl=5; h,r-ind=1,1
          [3,3]((5,17,30),(2,7,12),(11,37,65)); lvl=5; h,r-ind=1,1
          [3,3]((5,17,30),(9,30,53),(11,37,65)); lvl=5; h,r-ind=1,1
        [3,3]((6,21,37),(2,7,12),(5,17,30)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,11),(2,5,10),(1,1,2),(1,3,5)); lvl=3; h,r-ind=1,1
        [4,3]((2,6,11),(4,11,20),(1,2,4),(2,5,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,8,15),(1,2,4),(4,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,11),(3,8,15),(4,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,10),(3,8,15),(1,2,4)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,11),(2,5,10),(3,8,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(2,6,11),(4,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,11,20),(1,2,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(1,1,2),(1,2,4)); lvl=4; h,r-ind=1,1
      [4,3]((3,10,18),(2,6,11),(1,3,6),(2,5,10)); lvl=3; h,r-ind=1,1
        [3,3]((2,6,11),(2,5,10),(3,9,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(2,5,10),(3,9,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,18),(2,6,11),(3,9,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(3,10,18),(3,9,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(1,1,3),(2,3,7)); lvl=2; h,r-ind=1,1
[3,3]((1,6,19),(1,6,13),(2,7,21)); lvl=1; h,r-ind=30,30; alert-h-inc
    [4,3]((1,6,19),(2,9,27),(1,6,16),(2,9,26)); lvl=2; h,r-ind=3,3
      [3,3]((1,5,15),(2,9,27),(2,9,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,14),(1,5,15),(2,9,26)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,16),(1,5,14),(2,12,35),(1,5,15)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,15),(1,5,14),(3,16,46)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,16),(1,6,17),(1,5,14),(3,16,46)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,17),(3,16,46),(2,11,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(3,16,46),(2,11,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,16),(1,6,17),(2,11,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(1,6,16),(2,11,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,17),(1,5,15),(3,16,46)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,17),(2,12,35),(1,5,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,19),(2,12,35),(1,5,15)); lvl=3; h,r-ind=3,3; optimized-h
      [3,3]((1,6,19),(1,5,15),(2,9,27)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,13),(2,9,23),(1,6,16),(2,9,26)); lvl=2; h,r-ind=9,3
      [4,3]((1,5,13),(2,9,26),(1,5,14),(4,18,49)); lvl=3; h,r-ind=1,1
        [4,3]((4,19,52),(1,5,14),(2,9,25),(2,9,26)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,25),(2,9,26),(3,14,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(2,9,26),(3,14,39)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,52),(2,9,25),(3,14,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(4,19,52),(3,14,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,13),(4,19,52),(2,9,25)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,49),(1,5,13),(2,9,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,13),(4,19,52),(1,5,14)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,12),(1,5,13),(2,9,23),(4,18,49)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,13),(2,9,24),(4,18,49)); lvl=4; h,r-ind=1,1
        [3,3]((4,19,49),(1,5,13),(2,9,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,12),(4,19,49),(1,5,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,12),(4,19,49),(2,9,24),(2,9,23)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,36),(4,19,49),(2,9,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,23),(3,14,36),(2,9,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(2,9,23),(3,14,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(3,14,36),(4,19,49)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,16),(2,12,29),(1,5,13),(1,5,14)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,15),(1,5,13),(2,12,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,15),(3,16,42),(1,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,42),(1,5,14),(1,5,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,16),(1,6,15),(3,16,42),(1,5,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,15),(3,16,42),(2,11,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(3,16,42),(2,11,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,16),(1,6,15),(2,11,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(1,6,16),(2,11,29)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,13),(1,5,12),(2,12,29),(1,5,13)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,12),(1,5,13),(3,16,39)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,14),(1,5,13),(3,16,39)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,29),(1,6,14),(1,5,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,13),(1,6,14),(1,5,12),(3,16,39)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,14),(3,16,39),(2,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(3,16,39),(2,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,13),(1,6,14),(2,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(1,6,13),(2,11,26)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,27),(1,4,12),(2,9,26)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,11),(2,9,23),(1,4,12),(2,9,26)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,12),(5,21,59),(2,9,26),(4,18,49)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,9,25),(3,13,36),(7,30,85)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,4,12),(2,9,26),(2,9,25),(7,30,85)); lvl=4; h,r-ind=1,3
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          [3,3]((3,13,37),(2,9,25),(2,9,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,12),(3,13,37),(2,9,26)); lvl=5; h,r-ind=1,1
          [3,3]((7,30,85),(3,13,37),(2,9,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,12),(7,30,85),(3,13,37)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,12),(5,21,59),(3,13,36),(7,30,85)); lvl=4; h,r-ind=1,3
          [3,3]((5,21,59),(4,17,48),(3,13,36)); lvl=5; h,r-ind=1,1
          [3,3]((7,30,85),(4,17,48),(3,13,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,12),(7,30,85),(4,17,48)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,12),(5,21,59),(4,17,48)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,25),(3,13,36),(4,18,49)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,11),(5,21,59),(2,9,23),(4,18,49)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,13,36),(2,9,24),(7,30,82)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,4,11),(2,9,23),(2,9,24),(7,30,82)); lvl=4; h,r-ind=1,3
          [3,3]((3,13,35),(2,9,24),(2,9,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,11),(3,13,35),(2,9,23)); lvl=5; h,r-ind=1,1
          [3,3]((7,30,82),(3,13,35),(2,9,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,11),(7,30,82),(3,13,35)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,11),(5,21,59),(3,13,36),(7,30,82)); lvl=4; h,r-ind=1,3
          [3,3]((4,17,47),(5,21,59),(3,13,36)); lvl=5; h,r-ind=1,1
          [3,3]((7,30,82),(4,17,47),(3,13,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,11),(7,30,82),(4,17,47)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,11),(4,17,47),(5,21,59)); lvl=5; h,r-ind=1,1
        [3,3]((4,18,49),(3,13,36),(2,9,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(1,4,12),(5,21,59)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,21),(1,4,11),(1,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,19),(2,9,27),(1,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,21),(1,6,19),(1,4,12)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,19),(1,6,13)); lvl=1; h,r-ind=6,6; optimized-h
  [4,3]((1,0,0),(0,1,0),(2,12,19),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,6,9),(0,1,0),(2,12,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,8),(1,6,9),(2,12,19)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,9),(1,5,6),(1,5,5),(0,1,0)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,5),(3,16,18)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,6,7),(1,5,5),(3,16,18)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,11,12),(1,6,7),(3,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(2,11,12),(3,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,18),(2,11,12),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(3,17,18),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,6,6),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(1,6,6),(3,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(3,17,18),(2,11,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,8),(1,6,7),(1,5,6),(3,16,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,6,7),(3,16,18),(2,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(3,16,18),(2,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(1,5,6),(2,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(1,6,7),(2,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(1,6,8),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,8),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,9),(0,1,0),(1,6,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(1,5,5),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,4,4),(0,1,0)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((1,5,8),(2,8,13),(1,6,9),(1,4,5),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,7),(1,5,6),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(1,4,6),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(1,4,6),(2,10,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,8),(2,8,13),(1,4,6),(2,10,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,14),(2,8,13),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,15),(2,9,14),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(2,10,15),(2,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(2,9,14),(2,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(1,5,6),(1,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,10,15),(1,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(2,10,15),(1,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,2,3),(2,7,8),(1,4,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,4),(1,2,2),(2,7,8),(4,9,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,2),(4,9,11),(2,5,6)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,3),(4,11,13),(1,2,2),(2,5,6)); lvl=4; h,r-ind=1,1
          [3,3]((4,11,13),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(1,2,2),(3,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(4,11,13),(3,8,9)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,4),(1,3,3),(2,7,8),(4,11,13)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,3),(2,6,7),(4,13,14)); lvl=5; h,r-ind=1,1
          [4,3]((1,4,4),(2,7,8),(2,6,7),(4,13,14)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,10,11),(2,7,8),(2,6,7)); lvl=6; h,r-ind=1,1
            [3,3]((4,13,14),(3,10,11),(2,6,7)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,4),(4,13,14),(3,10,11)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,4),(3,10,11),(2,7,8)); lvl=6; h,r-ind=1,1
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      [3,3]((1,4,4),(1,3,3),(4,13,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,3),(4,11,13),(2,6,7)); lvl=5; h,r-ind=1,1
  [4,3]((1,0,0),(1,2,2),(2,2,3),(4,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,2),(4,9,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,1),(2,4,5),(4,7,9),(1,2,2)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,6),(4,7,9),(2,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,2),(3,5,6),(2,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,2),(3,5,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,1),(3,5,6),(4,7,9)); lvl=5; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,1),(2,2,3),(4,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,4),(4,7,9)); lvl=5; h,r-ind=1,1
      [3,3]((4,4,5),(1,1,1),(2,3,4)); lvl=5; h,r-ind=1,1
      [4,3]((1,0,0),(4,4,5),(2,2,3),(2,3,4)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,4),(4,4,5),(2,3,4)); lvl=6; h,r-ind=1,1
        [3,3]((2,2,3),(3,3,4),(2,3,4)); lvl=6; h,r-ind=1,1
        [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=6; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(4,4,5)); lvl=6; h,r-ind=1,1
      [3,3]((1,0,0),(4,4,5),(1,1,1)); lvl=5; h,r-ind=1,1
[5,3]((1,1,2),(2,8,13),(2,2,3),(1,4,5),(2,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,8),(1,3,4),(1,4,5)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,6),(3,9,13),(1,3,4),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((3,9,13),(2,7,10),(1,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,10),(1,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(1,4,5),(2,7,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(3,9,13),(2,7,10)); lvl=4; h,r-ind=1,1
  [4,3]((2,5,7),(4,9,11),(2,7,8),(1,3,4)); lvl=3; h,r-ind=1,1
    [5,3]((1,3,4),(9,24,31),(2,7,8),(3,8,10),(4,11,13)); lvl=4; h,r-ind=1,1
      [5,3]((2,6,7),(5,14,17),(10,28,35),(7,20,25),(9,25,31)); lvl=5; h,r-ind=1,1
        [3,3]((6,17,21),(9,25,31),(5,14,17)); lvl=6; h,r-ind=1,1
        [3,3]((2,6,7),(6,17,21),(5,14,17)); lvl=6; h,r-ind=1,1
        [3,3]((10,28,35),(6,17,21),(9,25,31)); lvl=6; h,r-ind=1,1
        [3,3]((7,20,25),(10,28,35),(6,17,21)); lvl=6; h,r-ind=1,1
        [3,3]((2,6,7),(7,20,25),(6,17,21)); lvl=6; h,r-ind=1,1
      [4,3]((1,3,4),(2,7,8),(2,6,7),(7,20,25)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((3,9,11),(2,6,7),(2,7,8)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(3,9,11),(2,7,8)); lvl=6; h,r-ind=1,1
        [3,3]((7,20,25),(3,9,11),(2,6,7)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(7,20,25),(3,9,11)); lvl=6; h,r-ind=1,1
      [4,3]((3,8,10),(4,11,14),(10,28,35),(9,25,31)); lvl=5; h,r-ind=1,1
        [3,3]((13,36,45),(10,28,35),(4,11,14)); lvl=6; h,r-ind=1,1
        [3,3]((3,8,10),(13,36,45),(4,11,14)); lvl=6; h,r-ind=1,1
        [3,3]((9,25,31),(3,8,10),(13,36,45)); lvl=6; h,r-ind=1,1
        [3,3]((9,25,31),(13,36,45),(10,28,35)); lvl=6; h,r-ind=1,1
      [4,3]((4,11,13),(5,14,17),(3,8,10),(9,25,31)); lvl=5; h,r-ind=1,1
        [3,3]((8,22,27),(5,14,17),(9,25,31)); lvl=6; h,r-ind=1,1
        [3,3]((3,8,10),(8,22,27),(9,25,31)); lvl=6; h,r-ind=1,1
        [3,3]((4,11,13),(8,22,27),(5,14,17)); lvl=6; h,r-ind=1,1
        [3,3]((3,8,10),(4,11,13),(8,22,27)); lvl=6; h,r-ind=1,1
      [3,3]((2,6,7),(4,11,13),(5,14,17)); lvl=5; h,r-ind=1,1
      [3,3]((9,24,31),(3,8,10),(4,11,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(9,24,31),(4,11,14)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,4),(4,11,14),(10,28,35),(7,20,25)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,14),(10,28,35),(11,31,39)); lvl=6; h,r-ind=1,1
        [3,3]((7,20,25),(10,28,35),(11,31,39)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(4,11,14),(11,31,39)); lvl=6; h,r-ind=1,1
        [3,3]((7,20,25),(1,3,4),(11,31,39)); lvl=6; h,r-ind=1,1
    [3,3]((2,5,6),(3,8,10),(4,11,13)); lvl=4; h,r-ind=1,1
    [5,3]((3,7,9),(5,13,17),(9,24,31),(2,5,6),(3,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((8,21,27),(9,24,31),(3,8,10)); lvl=5; h,r-ind=1,1
      [4,3]((8,21,27),(7,18,23),(12,31,39),(3,8,10)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((10,26,33),(7,18,23),(12,31,39)); lvl=6; h,r-ind=1,1
        [3,3]((3,8,10),(10,26,33),(12,31,39)); lvl=6; h,r-ind=1,1
        [3,3]((8,21,27),(10,26,33),(7,18,23)); lvl=6; h,r-ind=1,1
        [3,3]((3,8,10),(8,21,27),(10,26,33)); lvl=6; h,r-ind=1,1
      [3,3]((2,5,6),(12,31,39),(3,8,10)); lvl=5; h,r-ind=1,1
      [4,3]((5,13,17),(4,10,13),(8,21,27),(7,18,23)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,13),(7,18,23),(12,31,40)); lvl=6; h,r-ind=1,1
        [3,3]((8,21,27),(7,18,23),(12,31,40)); lvl=6; h,r-ind=1,1
        [3,3]((5,13,17),(8,21,27),(12,31,40)); lvl=6; h,r-ind=1,1
        [3,3]((5,13,17),(4,10,13),(12,31,40)); lvl=6; h,r-ind=1,1
      [5,3]((4,10,13),(3,7,9),(2,5,6),(7,18,23),(12,31,39)); lvl=5; h,r-ind=1,1
        [3,3]((9,23,29),(2,5,6),(12,31,39)); lvl=6; h,r-ind=1,1
        [3,3]((9,23,29),(7,18,23),(12,31,39)); lvl=6; h,r-ind=1,1
        [4,3]((13,33,42),(9,23,29),(15,38,48),(7,18,23)); lvl=6; h,r-ind=1,1
          [3,3]((15,38,48),(9,23,29),(22,56,71)); lvl=7; h,r-ind=1,1
          [3,3]((7,18,23),(9,23,29),(22,56,71)); lvl=7; h,r-ind=1,1
          [3,3]((13,33,42),(15,38,48),(22,56,71)); lvl=7; h,r-ind=1,1
          [3,3]((7,18,23),(13,33,42),(22,56,71)); lvl=7; h,r-ind=1,1
        [3,3]((4,10,13),(13,33,42),(7,18,23)); lvl=6; h,r-ind=1,1
        [3,3]((9,23,29),(15,38,48),(2,5,6)); lvl=6; h,r-ind=1,1
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        [3,3]((6,15,19),(15,38,48),(2,5,6)); lvl=6; h,r-ind=1,1
        [3,3]((3,7,9),(6,15,19),(2,5,6)); lvl=6; h,r-ind=1,1
        [3,3]((4,10,13),(3,7,9),(6,15,19)); lvl=6; h,r-ind=1,1
        [4,3]((4,10,13),(13,33,42),(6,15,19),(15,38,48)); lvl=6; h,r-ind=1,1
          [3,3]((19,48,61),(15,38,48),(13,33,42)); lvl=7; h,r-ind=1,1
          [3,3]((4,10,13),(19,48,61),(13,33,42)); lvl=7; h,r-ind=1,1
          [3,3]((6,15,19),(19,48,61),(15,38,48)); lvl=7; h,r-ind=1,1
          [3,3]((4,10,13),(6,15,19),(19,48,61)); lvl=7; h,r-ind=1,1
      [3,3]((5,13,17),(8,21,27),(9,24,31)); lvl=5; h,r-ind=1,1
    [3,3]((3,7,9),(4,9,11),(2,5,6)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,7),(5,13,17),(1,3,4),(9,24,31)); lvl=4; h,r-ind=1,1
      [3,3]((6,16,21),(5,13,17),(9,24,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(6,16,21),(9,24,31)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,7),(6,16,21),(5,13,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(6,16,21)); lvl=5; h,r-ind=1,1
    [3,3]((3,7,9),(2,5,7),(5,13,17)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((4,11,16),(3,9,13),(2,5,7),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((3,9,13),(1,3,4),(5,14,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,7),(1,3,4),(5,14,20)); lvl=4; h,r-ind=1,1
    [3,3]((4,11,16),(3,9,13),(5,14,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,7),(4,11,16),(5,14,20)); lvl=4; h,r-ind=1,1
  [4,3]((1,2,3),(3,8,12),(4,11,16),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,12),(4,11,16),(5,13,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,7),(4,11,16),(5,13,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(3,8,12),(5,13,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,7),(1,2,3),(5,13,19)); lvl=4; h,r-ind=1,1
  [4,3]((1,1,2),(1,3,5),(1,2,3),(3,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,8),(3,8,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,8),(3,8,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,3),(2,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(1,3,5),(2,5,8)); lvl=4; h,r-ind=1,1
  [5,3]((1,3,5),(1,4,6),(3,8,12),(4,11,16),(3,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(4,11,16),(3,8,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(2,6,9),(3,8,12)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,9),(3,9,13),(4,11,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,9),(1,4,6),(3,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(2,6,9),(1,4,6)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,5),(1,4,6),(2,8,13)); lvl=3; h,r-ind=1,1
  [4,3]((2,2,3),(1,2,3),(2,5,7),(4,9,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,7),(5,11,15),(9,19,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,7),(6,13,18),(5,11,15)); lvl=5; h,r-ind=1,1
      [3,3]((9,19,26),(6,13,18),(5,11,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(6,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((9,19,26),(1,2,3),(6,13,18)); lvl=5; h,r-ind=1,1
    [5,3]((2,4,5),(3,6,8),(3,7,9),(5,11,15),(9,19,26)); lvl=4; h,r-ind=1,1
      [3,3]((8,17,23),(5,11,15),(9,19,26)); lvl=5; h,r-ind=1,1
      [3,3]((3,6,8),(8,17,23),(9,19,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,5),(3,6,8),(12,25,33)); lvl=5; h,r-ind=1,1
      [4,3]((7,15,20),(8,17,23),(4,9,12),(5,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((12,26,35),(5,11,15),(8,17,23)); lvl=6; h,r-ind=1,1
        [3,3]((7,15,20),(12,26,35),(8,17,23)); lvl=6; h,r-ind=1,1
        [3,3]((4,9,12),(12,26,35),(5,11,15)); lvl=6; h,r-ind=1,1
        [3,3]((7,15,20),(4,9,12),(12,26,35)); lvl=6; h,r-ind=1,1
      [4,3]((3,6,8),(12,25,33),(7,15,20),(8,17,23)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((10,21,28),(7,15,20),(12,25,33)); lvl=6; h,r-ind=1,1
        [3,3]((3,6,8),(10,21,28),(12,25,33)); lvl=6; h,r-ind=1,1
        [3,3]((8,17,23),(10,21,28),(7,15,20)); lvl=6; h,r-ind=1,1
        [3,3]((3,6,8),(8,17,23),(10,21,28)); lvl=6; h,r-ind=1,1
      [5,3]((2,4,5),(12,25,33),(7,15,20),(3,7,9),(4,9,12)); lvl=5; h,r-ind=1,1
        [4,3]((7,15,20),(15,32,42),(13,28,37),(9,19,25)); lvl=6; h,r-ind=1,1
          [3,3]((22,47,62),(15,32,42),(13,28,37)); lvl=7; h,r-ind=1,1
          [3,3]((7,15,20),(22,47,62),(13,28,37)); lvl=7; h,r-ind=1,1
          [3,3]((9,19,25),(7,15,20),(22,47,62)); lvl=7; h,r-ind=1,1
          [3,3]((9,19,25),(22,47,62),(15,32,42)); lvl=7; h,r-ind=1,1
        [3,3]((12,25,33),(7,15,20),(9,19,25)); lvl=6; h,r-ind=1,1
        [3,3]((2,4,5),(12,25,33),(9,19,25)); lvl=6; h,r-ind=1,1
        [3,3]((4,9,12),(7,15,20),(13,28,37)); lvl=6; h,r-ind=1,1
        [3,3]((2,4,5),(15,32,42),(9,19,25)); lvl=6; h,r-ind=1,1
        [4,3]((4,9,12),(6,13,17),(15,32,42),(13,28,37)); lvl=6; h,r-ind=1,1
          [3,3]((15,32,42),(6,13,17),(19,41,54)); lvl=7; h,r-ind=1,1
          [3,3]((4,9,12),(6,13,17),(19,41,54)); lvl=7; h,r-ind=1,1
          [3,3]((13,28,37),(4,9,12),(19,41,54)); lvl=7; h,r-ind=1,1
          [3,3]((13,28,37),(15,32,42),(19,41,54)); lvl=7; h,r-ind=1,1
        [3,3]((3,7,9),(4,9,12),(6,13,17)); lvl=6; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,9),(6,13,17)); lvl=6; h,r-ind=1,1
        [3,3]((2,4,5),(6,13,17),(15,32,42)); lvl=6; h,r-ind=1,1
    [3,3]((4,9,11),(2,4,5),(3,7,9)); lvl=4; h,r-ind=1,1
    [5,3]((2,2,3),(4,7,9),(3,6,8),(1,2,3),(9,19,26)); lvl=4; h,r-ind=1,1
      [3,3]((4,8,11),(3,6,8),(9,19,26)); lvl=5; h,r-ind=1,1
      [3,3]((4,8,11),(1,2,3),(9,19,26)); lvl=5; h,r-ind=1,1
```

```
          [4,3]((7,13,18),(4,8,11),(10,19,26),(1,2,3)); lvl=5; h,r-ind=1,1
            [3,3]((10,19,26),(4,8,11),(11,21,29)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,3),(4,8,11),(11,21,29)); lvl=6; h,r-ind=1,1
            [3,3]((7,13,18),(1,2,3),(11,21,29)); lvl=6; h,r-ind=1,1
            [3,3]((7,13,18),(10,19,26),(11,21,29)); lvl=6; h,r-ind=1,1
          [4,3]((2,2,3),(2,3,4),(7,13,18),(1,2,3)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((2,3,4),(7,13,18),(3,5,7)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,3),(7,13,18),(3,5,7)); lvl=6; h,r-ind=1,1
            [3,3]((2,2,3),(1,2,3),(3,5,7)); lvl=6; h,r-ind=1,1
            [3,3]((2,2,3),(2,3,4),(3,5,7)); lvl=6; h,r-ind=1,1
          [4,3]((4,8,11),(10,19,26),(9,17,23),(3,6,8)); lvl=5; h,r-ind=1,1
            [3,3]((10,19,26),(9,17,23),(13,25,34)); lvl=6; h,r-ind=1,1
            [3,3]((3,6,8),(9,17,23),(13,25,34)); lvl=6; h,r-ind=1,1
            [3,3]((4,8,11),(3,6,8),(13,25,34)); lvl=6; h,r-ind=1,1
            [3,3]((4,8,11),(10,19,26),(13,25,34)); lvl=6; h,r-ind=1,1
          [4,3]((5,9,12),(4,7,9),(9,17,23),(3,6,8)); lvl=5; h,r-ind=1,1
            [3,3]((3,6,8),(4,7,9),(8,15,20)); lvl=6; h,r-ind=1,1
            [3,3]((5,9,12),(4,7,9),(8,15,20)); lvl=6; h,r-ind=1,1
            [3,3]((9,17,23),(5,9,12),(8,15,20)); lvl=6; h,r-ind=1,1
            [3,3]((9,17,23),(3,6,8),(8,15,20)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,4),(5,9,12),(4,7,9)); lvl=5; h,r-ind=1,1
          [5,3]((2,3,4),(5,9,12),(7,13,18),(10,19,26),(9,17,23)); lvl=5; h,r-ind=1,1
            [3,3]((6,11,15),(10,19,26),(9,17,23)); lvl=6; h,r-ind=1,1
            [3,3]((5,9,12),(6,11,15),(9,17,23)); lvl=6; h,r-ind=1,1
            [3,3]((5,9,12),(2,3,4),(6,11,15)); lvl=6; h,r-ind=1,1
            [3,3]((7,13,18),(6,11,15),(10,19,26)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,4),(7,13,18),(6,11,15)); lvl=6; h,r-ind=1,1
        [3,3]((2,4,5),(4,7,9),(3,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(2,5,7),(5,11,15)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,1,2),(2,2,3),(1,2,3)); lvl=3; h,r-ind=1,1
    [5,3]((1,4,5),(2,7,8),(1,5,6),(1,4,4),(1,5,5)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,4),(3,13,14),(2,8,9),(4,17,19)); lvl=3; h,r-ind=1,1
        [3,3]((3,13,14),(4,17,19),(5,21,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(4,17,19),(5,21,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(3,13,14),(5,21,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(1,4,4),(5,21,23)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,5),(3,13,15),(2,8,9),(4,17,19)); lvl=3; h,r-ind=1,1
        [3,3]((3,13,15),(4,17,19),(5,21,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(4,17,19),(5,21,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(3,13,15),(5,21,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(1,4,5),(5,21,24)); lvl=4; h,r-ind=1,1
      [5,3]((1,5,6),(1,5,5),(3,13,15),(3,13,14),(4,17,19)); lvl=3; h,r-ind=1,1
        [3,3]((2,9,10),(4,17,19),(3,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(2,9,10),(3,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,15),(2,9,10),(4,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(3,13,15),(2,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(1,5,6),(2,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,6),(3,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(1,4,4),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,8),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,4,4),(3,13,14)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,12,19),(1,6,13)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,6,19),(1,1,3),(2,7,21)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(1,6,19),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
```

19.17 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,7,19)); lvl=0; h,r-ind=19,361
  [5,3]((1,0,0),(2,7,17),(2,10,15),(1,5,10),(1,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,17),(1,3,7),(1,4,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,10),(1,3,6),(1,3,7),(1,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,6,13),(1,3,6),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,6,13),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(1,3,7),(2,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(2,6,13),(1,3,6)); lvl=3; h,r-ind=1,1
    [6,3]((1,3,6),(3,9,17),(2,10,17),(1,4,7),(1,5,10),(1,4,9)); lvl=2; h,r-ind=1,1
      [4,3]((3,10,19),(5,18,34),(3,11,21),(1,3,6)); lvl=3; h,r-ind=1,1
        [3,3]((3,11,21),(5,18,34),(6,21,40)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,19),(5,18,34),(6,21,40)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(3,10,19),(6,21,40)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(3,11,21),(6,21,40)); lvl=4; h,r-ind=1,1
      [4,3]((3,12,23),(1,4,8),(3,11,21),(1,3,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,8),(1,3,6),(4,15,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,21),(1,3,6),(4,15,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,12,23),(3,11,21),(4,15,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,12,23),(1,4,8),(4,15,29)); lvl=4; h,r-ind=1,1
```

```
    [3,3]((1,4,9),(1,4,8),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,10),(1,4,9),(1,4,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,9),(1,5,10),(3,12,23),(1,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,17),(3,12,23),(1,4,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(2,9,17),(1,4,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(1,5,10),(2,9,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,9,17),(3,12,23)); lvl=4; h,r-ind=1,1
    [3,3]((3,9,17),(3,10,19),(1,3,6)); lvl=3; h,r-ind=1,1
    [5,3]((3,12,22),(1,4,7),(3,9,17),(3,10,19),(5,18,34)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,17),(2,7,13),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,22),(2,7,13),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,22),(4,15,28),(2,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,9,17),(2,7,13),(3,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((5,18,34),(2,7,13),(3,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((5,18,34),(4,15,28),(2,7,13)); lvl=4; h,r-ind=1,1
    [4,3]((3,12,22),(3,12,23),(5,18,34),(3,11,21)); lvl=3; h,r-ind=1,1
      [4,3]((5,18,34),(3,11,21),(7,26,49),(12,45,85)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,21),(10,37,70),(12,45,85)); lvl=5; h,r-ind=1,1
        [3,3]((7,26,49),(10,37,70),(12,45,85)); lvl=5; h,r-ind=1,1
        [3,3]((7,26,49),(5,18,34),(10,37,70)); lvl=5; h,r-ind=1,1
        [3,3]((5,18,34),(3,11,21),(10,37,70)); lvl=5; h,r-ind=1,1
      [4,3]((4,15,28),(2,8,15),(7,26,49),(12,45,85)); lvl=4; h,r-ind=1,1
        [3,3]((9,34,64),(2,8,15),(12,45,85)); lvl=5; h,r-ind=1,1
        [3,3]((7,26,49),(9,34,64),(12,45,85)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,28),(7,26,49),(9,34,64)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,28),(9,34,64),(2,8,15)); lvl=5; h,r-ind=1,1
      [3,3]((3,12,22),(4,15,28),(2,8,15)); lvl=4; h,r-ind=1,1
      [4,3]((2,8,15),(3,12,23),(3,11,21),(12,45,85)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,11,21),(5,19,36),(3,12,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,15),(5,19,36),(3,12,23)); lvl=5; h,r-ind=1,1
        [3,3]((12,45,85),(3,11,21),(5,19,36)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,15),(12,45,85),(5,19,36)); lvl=5; h,r-ind=1,1
      [3,3]((4,15,28),(5,18,34),(7,26,49)); lvl=4; h,r-ind=1,1
    [4,3]((2,10,17),(3,12,22),(2,9,16),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,23),(2,9,16),(3,12,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,13,23),(3,12,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,17),(1,4,7),(3,13,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,17),(3,13,23),(2,9,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,9),(2,10,17),(2,9,16)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,9),(3,12,22),(2,9,16),(3,12,23)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,16),(5,22,40),(3,12,22),(2,8,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,8,15),(4,17,31),(3,12,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,16),(4,17,31),(3,12,22)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,40),(2,8,15),(4,17,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,16),(5,22,40),(4,17,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,9),(5,22,40),(2,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(3,12,23),(2,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,9,16),(5,22,40)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,8),(2,10,17),(1,4,7)); lvl=2; h,r-ind=1,1
  [7,3]((3,8,15),(1,3,5),(4,11,21),(3,9,17),(1,4,6),(1,5,8),(1,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,11),(1,4,7),(3,9,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,11),(4,11,21),(3,9,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,15),(2,6,11),(4,11,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(3,8,15),(2,6,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,11),(2,7,12),(4,16,27),(1,4,7)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,12),(3,11,19),(4,16,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,11,19),(4,16,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,11),(1,4,7),(3,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,11),(2,7,12),(3,11,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(4,16,27),(1,4,7)); lvl=3; h,r-ind=1,1
    [5,3]((1,4,6),(2,7,12),(4,14,23),(1,5,8),(4,16,27)); lvl=3; h,r-ind=1,1
      [4,3]((5,19,31),(3,11,18),(2,7,12),(4,15,25)); lvl=4; h,r-ind=1,1
        [3,3]((7,26,43),(3,11,18),(2,7,12)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,25),(7,26,43),(2,7,12)); lvl=5; h,r-ind=1,1
        [3,3]((5,19,31),(4,15,25),(7,26,43)); lvl=5; h,r-ind=1,1
        [3,3]((5,19,31),(7,26,43),(3,11,18)); lvl=5; h,r-ind=1,1
      [4,3]((5,19,31),(5,20,33),(2,8,13),(4,15,25)); lvl=4; h,r-ind=1,1
        [3,3]((6,23,38),(2,8,13),(5,20,33)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,25),(6,23,38),(5,20,33)); lvl=5; h,r-ind=1,1
        [3,3]((5,19,31),(6,23,38),(2,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,25),(5,19,31),(6,23,38)); lvl=5; h,r-ind=1,1
      [3,3]((5,20,33),(1,5,8),(3,12,20)); lvl=4; h,r-ind=1,1
      [3,3]((5,20,33),(2,8,13),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,8,13),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(5,19,31),(2,8,13)); lvl=4; h,r-ind=1,1
      [4,3]((5,20,33),(3,12,20),(2,7,12),(4,15,25)); lvl=4; h,r-ind=1,1
        [3,3]((7,27,45),(2,7,12),(3,12,20)); lvl=5; h,r-ind=1,1
        [3,3]((5,20,33),(7,27,45),(3,12,20)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,25),(5,20,33),(7,27,45)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,25),(7,27,45),(2,7,12)); lvl=5; h,r-ind=1,1
```

```
      [3,3]((3,12,20),(4,16,27),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(3,12,20),(4,16,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(5,19,31),(3,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,18),(2,7,12),(4,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(3,11,18),(4,14,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(1,4,6),(4,14,23)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,5),(2,6,11),(2,7,12),(4,14,23)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,10,17),(2,6,11),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((4,14,23),(3,10,17),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(4,14,23),(3,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(3,10,17),(2,6,11)); lvl=4; h,r-ind=1,1
  [3,3]((2,10,15),(1,4,6),(1,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,6,9),(1,3,5),(1,4,6)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(1,2,4),(3,8,15),(2,6,9),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(1,3,5),(3,8,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(1,2,4),(3,8,15)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,7),(2,5,9),(3,7,12),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(3,7,12),(4,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(3,7,12),(4,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,7),(4,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(4,9,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,7),(1,2,4),(1,1,2)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(2,4,7),(1,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,3),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(1,1,2),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(2,3,5),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(2,3,5),(1,2,3)); lvl=4; h,r-ind=1,1
    [4,3]((6,15,25),(2,5,9),(3,7,12),(1,3,5)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,7,12),(2,5,9),(4,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,9),(4,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((6,15,25),(3,7,12),(4,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(6,15,25),(4,10,17)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,8),(6,15,25),(1,3,5),(2,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,13),(1,3,5),(6,15,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(3,8,13),(6,15,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(3,8,13),(2,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,13),(2,6,9),(1,3,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,8),(2,6,9)); lvl=3; h,r-ind=1,1
    [5,3]((2,4,7),(1,2,3),(2,5,8),(6,15,25),(3,7,12)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,12),(7,16,27),(5,12,20),(9,21,35)); lvl=4; h,r-ind=1,1
        [3,3]((9,21,35),(7,16,27),(12,28,47)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,12),(7,16,27),(12,28,47)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,20),(3,7,12),(12,28,47)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,20),(9,21,35),(12,28,47)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,8),(6,14,23),(5,12,20),(9,21,35)); lvl=4; h,r-ind=1,1
        [3,3]((9,21,35),(6,14,23),(11,26,43)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,8),(6,14,23),(11,26,43)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,20),(2,5,8),(11,26,43)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,20),(9,21,35),(11,26,43)); lvl=5; h,r-ind=1,1
      [3,3]((6,15,25),(2,5,8),(5,12,20)); lvl=4; h,r-ind=1,1
      [5,3]((2,4,7),(1,2,3),(6,14,23),(7,16,27),(9,21,35)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,15),(6,14,23),(9,21,35)); lvl=5; h,r-ind=1,1
        [3,3]((7,16,27),(4,9,15),(9,21,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,7),(7,16,27),(4,9,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(4,9,15),(6,14,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,7),(1,2,3),(4,9,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,8),(1,2,3),(6,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,12),(6,15,25),(5,12,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(3,7,12),(7,16,27)); lvl=4; h,r-ind=1,1
  [4,3]((2,5,10),(1,3,6),(4,11,21),(3,9,17)); lvl=2; h,r-ind=1,1
    [3,3]((5,14,27),(3,9,17),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,10),(5,14,27),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,21),(5,14,27),(3,9,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,10),(4,11,21),(5,14,27)); lvl=3; h,r-ind=1,1
  [4,3]((2,4,9),(2,5,10),(1,2,4),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,11),(1,2,4),(2,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(2,5,11),(2,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(2,5,11),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(2,4,9),(2,5,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,7),(2,4,9),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(2,4,9),(5,8,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(1,1,2),(2,4,9),(5,8,18)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,2),(3,5,11),(5,8,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,9),(3,5,11),(5,8,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,9),(3,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,1,2),(3,5,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,2),(2,3,7),(5,8,18)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,2),(3,4,9),(5,8,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(3,4,9),(5,8,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(2,3,7),(3,4,9)); lvl=4; h,r-ind=1,1
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      [3,3]((1,0,0),(1,1,2),(3,4,9)); lvl=4; h,r-ind=1,1
  [4,3]((2,5,10),(1,2,4),(3,8,15),(4,11,21)); lvl=2; h,r-ind=1,1
    [3,3]((5,13,25),(3,8,15),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,10),(5,13,25),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,21),(2,5,10),(5,13,25)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,21),(5,13,25),(3,8,15)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,5),(2,7,17),(1,3,7)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,7),(2,4,9),(1,2,5),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(2,4,9),(3,6,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(2,4,9),(3,6,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,7),(3,6,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(1,3,7),(3,6,14)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,7),(1,2,5)); lvl=2; h,r-ind=1,1
[5,3]((1,3,8),(2,9,24),(1,5,13),(2,7,17),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((2,8,21),(1,5,13),(2,9,24)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,8),(2,8,21),(2,9,24)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,8),(4,12,31),(1,2,5)); lvl=2; h,r-ind=1,1
  [4,3]((2,8,21),(2,7,18),(1,5,13),(1,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,12,31),(1,4,10),(2,7,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,21),(3,12,31),(2,7,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,13),(2,8,21),(3,12,31)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,13),(3,12,31),(1,4,10)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,8),(4,12,31),(2,8,21),(2,7,18)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((3,10,26),(4,12,31),(2,7,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,21),(3,10,26),(2,7,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(2,8,21),(3,10,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(3,10,26),(4,12,31)); lvl=3; h,r-ind=1,1
  [4,3]((4,12,31),(2,7,18),(1,2,5),(1,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,18),(1,4,10),(3,9,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(1,4,10),(3,9,23)); lvl=3; h,r-ind=1,1
    [3,3]((4,12,31),(2,7,18),(3,9,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(4,12,31),(3,9,23)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,5),(2,7,17),(1,4,10)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,3,8),(1,2,5)); lvl=1; h,r-ind=1,1
[3,3]((1,7,19),(1,3,8),(2,9,24)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(1,7,19),(1,3,8)); lvl=1; h,r-ind=1,1
[3,3]((1,7,19),(2,9,24),(1,5,13)); lvl=1; h,r-ind=2,2; optimized-h
[5,3]((1,6,15),(1,6,12),(1,5,13),(2,7,17),(1,5,10)); lvl=1; h,r-ind=3,1
  [4,3]((1,5,12),(2,10,23),(4,19,44),(3,14,33)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,23),(4,19,44),(5,24,56)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,33),(4,19,44),(5,24,56)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,12),(2,10,23),(5,24,56)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,33),(1,5,12),(5,24,56)); lvl=3; h,r-ind=1,1
  [5,3]((1,4,10),(1,4,9),(3,14,32),(4,19,44),(3,14,33)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,32),(1,4,9),(2,9,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,10),(1,4,9),(2,9,21)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,32),(4,19,44),(2,9,21)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,33),(4,19,44),(2,9,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,10),(3,14,33),(2,9,21)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,10),(2,7,17),(1,4,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,13),(1,4,10),(1,5,12),(3,14,33)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,10),(3,14,33),(2,9,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,12),(3,14,33),(2,9,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,12),(1,5,13),(2,9,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,13),(1,4,10),(2,9,22)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,15),(1,5,13),(1,5,12)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,15),(2,12,27),(1,5,12),(2,10,23)); lvl=2; h,r-ind=1,1
    [4,3]((5,27,63),(3,16,37),(2,10,23),(1,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,21,49),(3,16,37),(2,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(4,21,49),(2,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((5,27,63),(1,5,12),(4,21,49)); lvl=4; h,r-ind=1,1
      [3,3]((5,27,63),(4,21,49),(3,16,37)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,15),(1,6,14),(5,27,63),(1,5,12)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((1,6,14),(5,27,63),(2,11,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(5,27,63),(2,11,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,15),(1,5,12),(2,11,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,15),(1,6,14),(2,11,26)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,25),(1,6,14),(5,27,63),(3,16,37)); lvl=3; h,r-ind=1,1
      [3,3]((4,22,51),(1,6,14),(5,27,63)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,37),(4,22,51),(5,27,63)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,25),(3,16,37),(4,22,51)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,25),(4,22,51),(1,6,14)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,25),(2,12,27),(1,6,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,25),(3,16,37),(2,10,23)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,11),(3,14,32),(2,10,23),(4,19,44)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,32),(4,19,44),(5,24,55)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,23),(4,19,44),(5,24,55)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,11),(2,10,23),(5,24,55)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,11),(3,14,32),(5,24,55)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,12),(2,12,27),(1,5,11),(2,10,23)); lvl=2; h,r-ind=1,1
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      [4,3]((5,27,60),(3,16,36),(2,10,23),(1,5,11)); lvl=3; h,r-ind=1,1
        [3,3]((3,16,36),(2,10,23),(4,21,47)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,11),(2,10,23),(4,21,47)); lvl=4; h,r-ind=1,1
        [3,3]((5,27,60),(3,16,36),(4,21,47)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,11),(5,27,60),(4,21,47)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,12),(1,6,13),(5,27,60),(1,5,11)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,11,24),(1,6,13),(5,27,60)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,11),(2,11,24),(5,27,60)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(2,11,24),(1,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,11),(1,6,12),(2,11,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,25),(3,16,36),(2,10,23)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,13),(5,27,60),(2,11,25),(3,16,36)); lvl=3; h,r-ind=1,1
        [3,3]((5,27,60),(4,22,49),(3,16,36)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,25),(4,22,49),(3,16,36)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,13),(5,27,60),(4,22,49)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,25),(1,6,13),(4,22,49)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,13),(2,12,27),(2,11,25)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,10),(1,4,9),(1,5,11),(3,14,32)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,20),(1,4,9),(3,14,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,20),(1,5,11),(3,14,32)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,10),(2,9,20),(1,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,10),(2,9,20),(1,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,12),(1,5,10),(1,5,11)); lvl=2; h,r-ind=1,1
[3,3]((1,7,19),(1,6,15),(1,5,13)); lvl=1; h,r-ind=2,2; optimized-h
[5,3]((1,6,12),(1,7,12),(2,14,19),(2,10,15),(1,5,10)); lvl=1; h,r-ind=1,1
    [4,3]((2,14,21),(1,6,10),(1,7,12),(1,6,11)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,10),(1,6,11),(3,19,32)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,12),(1,7,11),(1,6,11),(3,19,32)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,22),(1,7,11),(3,19,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(2,13,22),(3,19,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,12),(2,13,22),(1,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(1,7,12),(2,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(1,6,10),(3,19,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,14,21),(1,7,11),(1,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,12),(1,7,12),(1,6,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,10),(1,6,10),(2,10,17),(1,6,11)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,9),(1,6,10),(3,17,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,11),(1,6,10),(3,17,30)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,11),(1,5,10),(1,5,9),(3,17,30)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,10),(2,11,20),(1,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,30),(2,11,20),(1,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(3,17,30),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(1,5,10),(2,11,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,10,17),(1,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,12),(1,5,10),(1,6,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,10),(2,14,21),(1,6,9),(1,6,10)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,10),(1,6,9),(2,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,10),(1,6,9),(2,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,14,21),(1,7,10),(2,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,14,21),(1,6,10),(2,13,20)); lvl=3; h,r-ind=1,1
    [4,3]((2,14,19),(2,12,17),(1,7,10),(1,6,9)); lvl=2; h,r-ind=1,1
      [4,3]((2,13,18),(4,26,37),(1,6,9),(2,12,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,26,37),(3,19,27),(1,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,17),(3,19,27),(1,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,18),(2,12,17),(3,19,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,18),(4,26,37),(3,19,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,10),(4,26,37),(1,6,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,14,19),(2,13,18),(1,7,10),(4,26,37)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,20,28),(2,13,18),(4,26,37)); lvl=4; h,r-ind=1,1
        [3,3]((3,20,28),(1,7,10),(4,26,37)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,19),(3,20,28),(1,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,19),(3,20,28),(2,13,18)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,9),(1,6,10),(2,10,17),(1,5,8)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,18),(1,6,10),(2,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,18),(1,5,8),(2,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,9),(2,11,18),(1,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,9),(2,11,18),(1,6,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,12,17),(1,6,9),(2,10,15),(1,5,8)); lvl=2; h,r-ind=1,1
      [4,3]((2,11,16),(4,22,33),(1,5,8),(2,10,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,22,33),(1,5,8),(3,16,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,15),(1,5,8),(3,16,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,16),(2,10,15),(3,16,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,16),(4,22,33),(3,16,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(4,22,33),(1,5,8)); lvl=3; h,r-ind=1,1
      [4,3]((2,12,17),(2,11,16),(1,6,9),(4,22,33)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,25),(2,11,16),(4,22,33)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,25),(1,6,9),(4,22,33)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,17),(3,17,25),(1,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,17),(3,17,25),(2,11,16)); lvl=4; h,r-ind=1,1
[4,3]((1,7,19),(1,6,15),(1,6,12),(1,7,12)); lvl=1; h,r-ind=1,1
```

```
    [4,3]((2,14,31),(1,7,12),(2,12,27),(1,6,12)); lvl=2; h,r-ind=1,1
      [4,3]((1,7,14),(1,7,12),(1,6,13),(1,6,12)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,13),(3,19,38),(1,6,12)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,13),(1,7,12),(3,19,38),(1,6,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,7,12),(1,6,12),(2,13,25)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,38),(1,6,12),(2,13,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,13),(3,19,38),(2,13,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,13),(1,7,12),(2,13,25)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,14),(1,7,13),(1,6,13),(3,19,38)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,13,26),(3,19,38),(1,7,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,14),(2,13,26),(1,7,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,26),(1,6,13),(3,19,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,14),(2,13,26),(1,6,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,15),(1,7,14),(1,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,29),(1,7,15),(1,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,29),(1,6,13),(2,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,14,31),(2,13,29),(1,7,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,19),(2,14,31),(1,6,15),(2,12,27)); lvl=2; h,r-ind=1,1
      [3,3]((2,13,29),(1,6,14),(2,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,29),(1,7,16),(1,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,16),(1,7,17),(1,6,14)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,19),(1,7,17),(1,6,15),(1,6,14)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,15),(3,19,47),(1,6,14)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,18),(1,7,17),(3,19,47),(1,6,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,7,17),(2,13,32),(1,6,14)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,47),(2,13,32),(1,6,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,18),(3,19,47),(2,13,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,18),(1,7,17),(2,13,32)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,19),(1,7,18),(1,6,15),(3,19,47)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,13,33),(3,19,47),(1,7,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,19),(2,13,33),(1,7,18)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,33),(1,6,15),(3,19,47)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,19),(2,13,33),(1,6,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,29),(2,14,31),(1,7,16)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,7,12),(2,14,19)); lvl=1; h,r-ind=5,5; optimized-h
[3,3]((1,7,19),(0,1,0),(1,7,12)); lvl=1; h,r-ind=7,7; optimized-h
[4,3]((1,0,0),(0,1,0),(2,14,19),(2,10,15)); lvl=1; h,r-ind=1,1
  [4,3]((1,7,9),(2,12,17),(1,6,8),(2,14,19)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,8),(4,26,35),(2,12,17),(2,13,18)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,19,26),(4,26,35),(2,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,17),(3,19,26),(2,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(2,12,17),(3,19,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(3,19,26),(4,26,35)); lvl=4; h,r-ind=1,1
    [4,3]((2,14,19),(1,7,9),(4,26,35),(2,13,18)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,20,27),(1,7,9),(4,26,35)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,27),(2,13,18),(4,26,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,19),(3,20,27),(2,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,19),(3,20,27),(1,7,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(1,6,8),(4,26,35)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,7,9),(2,14,19)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,5,5),(1,7,9),(1,6,8)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,12,13),(1,5,5),(1,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(1,5,5),(1,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,13,15),(1,7,7),(2,12,13),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,7),(2,13,14),(2,12,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,13,14),(2,12,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,15),(1,6,7),(2,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,15),(1,7,7),(2,13,14)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,8),(2,13,16),(2,13,15),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,16),(2,13,15),(3,19,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,13,15),(3,19,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(2,13,16),(3,19,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,8),(3,19,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(1,6,8),(2,13,16)); lvl=3; h,r-ind=1,1
    [5,3]((1,7,9),(0,1,0),(2,13,16),(2,13,15),(1,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(2,13,15),(1,7,7)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,8),(1,7,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,16),(1,7,8),(2,13,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(2,13,16),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,9),(1,7,8)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(1,7,7),(2,12,13),(1,5,5)); lvl=3; h,r-ind=1,2
      [3,3]((1,6,6),(2,12,13),(1,7,7)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(1,7,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(1,6,6),(2,12,13)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=4; h,r-ind=1,1
  [5,3]((2,6,9),(1,4,6),(1,3,3),(1,5,5),(1,6,8)); lvl=2; h,r-ind=1,1
    [5,3]((2,9,11),(1,5,6),(1,5,7),(2,9,12),(1,6,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,7),(2,10,13),(4,19,25),(5,24,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,13),(5,24,31),(6,29,38)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,25),(5,24,31),(6,29,38)); lvl=5; h,r-ind=1,1
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```
          [3,3]((1,5,7),(2,10,13),(6,29,38)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,25),(1,5,7),(6,29,38)); lvl=5; h,r-ind=1,1
        [5,3]((2,9,11),(4,19,24),(2,9,12),(4,19,25),(5,24,31)); lvl=4; h,r-ind=1,1
          [3,3]((3,14,18),(4,19,25),(5,24,31)); lvl=5; h,r-ind=1,1
          [3,3]((3,14,18),(4,19,24),(5,24,31)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,11),(3,14,18),(4,19,24)); lvl=5; h,r-ind=1,1
          [3,3]((3,14,18),(2,9,12),(4,19,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,11),(3,14,18),(2,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(2,9,11),(4,19,24)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,6),(4,19,24),(2,10,13),(5,24,31)); lvl=4; h,r-ind=1,1
          [3,3]((4,19,24),(5,24,31),(6,29,37)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,13),(5,24,31),(6,29,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(4,19,24),(6,29,37)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,13),(1,5,6),(6,29,37)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,12),(1,5,7),(4,19,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(1,6,8),(2,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(1,6,8),(2,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(1,5,6),(1,6,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,4),(2,9,11),(1,5,5),(1,5,6)); lvl=3; h,r-ind=1,1
        [3,3]((2,9,10),(1,5,5),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,11),(2,9,10),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(2,9,11),(2,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(2,9,10),(1,5,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,3),(1,3,4),(1,4,4),(2,9,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,4),(2,9,11),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(3,11,12),(1,4,5)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,3),(3,11,12),(1,3,4),(1,4,5)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,11,12),(2,7,8),(1,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(2,7,8),(1,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(3,11,12),(2,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(1,3,3),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,4,4),(3,11,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,6),(1,5,7),(2,8,11),(2,9,12)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,7),(2,9,12),(3,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,11),(2,9,12),(3,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(2,8,11),(3,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(1,5,7),(3,13,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(2,9,11),(2,8,11),(2,9,12)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,5),(2,9,12),(5,21,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,11),(2,9,12),(5,21,28)); lvl=4; h,r-ind=1,1
        [4,3]((2,8,11),(1,3,4),(1,4,5),(5,21,28)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,4,5),(1,3,4),(3,12,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,11),(1,3,4),(3,12,16)); lvl=5; h,r-ind=1,1
          [3,3]((5,21,28),(1,4,5),(3,12,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,11),(5,21,28),(3,12,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(2,9,11),(2,9,12)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,9),(1,4,6),(1,3,4),(2,8,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,10),(1,4,6),(2,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,10),(2,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,9),(2,7,10),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,6,9),(2,7,10)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,5,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(0,1,0),(1,3,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,4,6),(2,10,15),(2,12,17),(1,6,8)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((1,6,8),(1,5,7),(2,12,17),(2,11,16)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,7),(2,11,16),(3,17,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,17),(2,11,16),(3,17,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(2,12,17),(3,17,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(1,5,7),(3,17,24)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,6),(1,5,7),(2,10,15),(2,11,16)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,7),(2,11,16),(3,15,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,15),(2,11,16),(3,15,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(1,5,7),(3,15,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,15),(1,4,6),(3,15,22)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(2,6,9),(1,3,3)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
```

19.18 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,8,19)); lvl=0; h,r-ind=19,361
  [3,3]((1,0,0),(1,3,7),(2,4,9)); lvl=1; h,r-ind=1,1
  [5,3]((2,9,21),(2,6,13),(1,4,9),(1,3,7),(2,4,9)); lvl=1; h,r-ind=1,1
    [4,3]((1,4,9),(3,9,20),(5,16,36),(2,6,13)); lvl=2; h,r-ind=1,1
      [3,3]((5,16,36),(4,13,29),(3,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,13),(4,13,29),(3,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(2,6,13),(4,13,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(5,16,36),(4,13,29)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(3,9,20),(2,6,13)); lvl=2; h,r-ind=1,1
```

```
    [6,3]((2,5,11),(3,8,18),(5,15,34),(3,9,20),(6,19,43),(5,16,36)); lvl=2; h,r-ind=1,1
      [3,3]((3,9,20),(4,12,27),(5,16,36)); lvl=3; h,r-ind=1,1
      [3,3]((6,19,43),(4,12,27),(5,16,36)); lvl=3; h,r-ind=1,1
      [3,3]((5,15,34),(6,19,43),(4,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,18),(5,15,34),(4,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(3,9,20),(4,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(3,8,18),(4,12,27)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(2,5,11),(3,8,18)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,7),(2,4,9),(3,8,18),(5,15,34)); lvl=2; h,r-ind=1,1
      [3,3]((4,11,25),(2,4,9),(3,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((5,15,34),(4,11,25),(3,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(5,15,34),(4,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(4,11,25),(2,4,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,9),(6,19,43),(5,16,36),(2,7,16)); lvl=2; h,r-ind=1,1
      [3,3]((5,16,36),(6,19,43),(7,23,52)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,16),(6,19,43),(7,23,52)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(5,16,36),(7,23,52)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,16),(1,4,9),(7,23,52)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,21),(1,4,9),(2,7,16)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,7),(5,15,34),(6,19,43),(2,7,16)); lvl=2; h,r-ind=1,1
      [3,3]((5,15,34),(6,19,43),(7,22,50)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,16),(6,19,43),(7,22,50)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(5,15,34),(7,22,50)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,16),(1,3,7),(7,22,50)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,21),(1,3,7),(2,7,16)); lvl=2; h,r-ind=1,1
  [3,3]((1,8,19),(2,9,21),(1,3,7)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,6),(2,6,13),(1,0,0),(2,4,9)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,6),(1,0,0),(2,5,11),(2,4,9)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,2),(5,10,22),(1,0,0),(2,4,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,10,22),(3,5,11),(2,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,5,11),(2,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(1,0,0),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(5,10,22),(3,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(5,10,22),(2,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,5,11),(5,10,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(2,5,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,6),(2,3,6),(2,6,13),(2,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,11),(5,13,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,13),(2,5,11),(5,13,28)); lvl=3; h,r-ind=1,1
      [4,3]((2,6,13),(1,3,6),(1,2,4),(5,13,28)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,4),(3,8,17),(1,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,13),(3,8,17),(1,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,28),(1,2,4),(3,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,13),(5,13,28),(3,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,6),(2,5,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,6),(2,6,9),(1,0,0)); lvl=1; h,r-ind=9,3; optimized-h
  [4,3]((0,1,0),(2,6,9),(2,16,19),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,11,14),(2,11,13),(1,2,3),(2,6,9)); lvl=2; h,r-ind=1,1
      [4,3]((2,11,14),(4,17,23),(1,5,6),(1,4,5)); lvl=3; h,r-ind=1,1
        [4,3]((1,4,5),(2,9,12),(4,19,25),(5,23,29)); lvl=4; h,r-ind=1,1
          [4,3]((3,14,18),(2,9,12),(4,19,25),(6,27,35)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((5,23,30),(4,19,25),(2,9,12)); lvl=6; h,r-ind=1,1
            [3,3]((6,27,35),(5,23,30),(2,9,12)); lvl=6; h,r-ind=1,1
            [3,3]((3,14,18),(6,27,35),(5,23,30)); lvl=6; h,r-ind=1,1
            [3,3]((3,14,18),(5,23,30),(4,19,25)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(3,14,18),(6,27,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(3,14,18),(5,23,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(2,9,12),(6,27,35)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,6),(2,11,14),(4,19,25),(5,23,29)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [3,3]((3,14,18),(4,19,25),(2,10,13)); lvl=5; h,r-ind=1,1
          [3,3]((3,14,18),(7,34,43),(2,10,13)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,5,6),(2,11,14),(7,34,43),(2,10,13)); lvl=5; h,r-ind=1,3
            [3,3]((3,15,19),(2,11,14),(2,10,13)); lvl=6; h,r-ind=1,1
            [3,3]((7,34,43),(3,15,19),(2,10,13)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,6),(7,34,43),(3,15,19)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,6),(3,15,19),(2,11,14)); lvl=6; h,r-ind=1,1
          [4,3]((1,5,6),(3,14,18),(5,23,29),(7,34,43)); lvl=5; h,r-ind=1,3
            [3,3]((3,14,18),(5,23,29),(4,19,24)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,6),(5,23,29),(4,19,24)); lvl=6; h,r-ind=1,1
            [3,3]((7,34,43),(3,14,18),(4,19,24)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,6),(7,34,43),(4,19,24)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,6),(1,4,5),(5,23,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(4,17,23),(2,9,12)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,9),(4,17,23),(1,2,3),(1,4,5)); lvl=3; h,r-ind=1,1
        [4,3]((4,15,21),(2,8,11),(1,4,5),(1,3,4)); lvl=4; h,r-ind=1,1
          [3,3]((2,8,11),(3,11,15),(1,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(3,11,15),(1,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,21),(2,8,11),(3,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(4,15,21),(3,11,15)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,3),(2,6,9),(4,15,21),(1,3,4)); lvl=4; h,r-ind=1,1
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        [3,3]((1,3,4),(2,7,10),(4,15,21)); lvl=5; h,r-ind=1,1
        [3,3]((4,12,17),(1,3,4),(2,7,10)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,3),(4,12,17),(2,6,9),(2,7,10)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,9,13),(4,12,17),(2,7,10)); lvl=6; h,r-ind=1,1
          [3,3]((2,6,9),(3,9,13),(2,7,10)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(2,6,9),(3,9,13)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(3,9,13),(4,12,17)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,3),(4,12,17),(1,3,4)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,23),(2,8,11),(1,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,14),(2,11,13),(1,5,6)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,2),(1,5,5),(2,11,13),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,7),(1,5,5),(1,5,6),(1,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,4),(3,13,15),(1,5,5),(1,5,6)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,5),(2,9,10),(1,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,15),(2,9,10),(1,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(1,5,5),(2,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,15),(1,4,4),(2,9,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,5),(3,13,15),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,4),(3,13,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,7),(1,4,4)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,2),(2,7,7),(1,2,3),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,3,4),(1,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,2),(1,3,3),(1,2,3),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,3,4),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,3),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(1,2,2),(2,5,6)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,5),(2,11,13),(1,5,6)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(1,2,2),(1,2,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[3,3]((0,1,0),(1,2,2),(1,5,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[4,3]((2,16,19),(2,11,14),(2,11,13),(1,8,9)); lvl=2; h,r-ind=5,1; alert-h-inc
  [3,3]((2,11,14),(2,11,13),(1,6,7)); lvl=3; h,r-ind=1,1
  [4,3]((4,27,33),(2,13,15),(2,11,14),(1,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,13,15),(9,57,68),(5,32,38),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((6,38,45),(5,32,38),(9,57,68)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(6,38,45),(9,57,68)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,15),(6,38,45),(5,32,38)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(2,13,15),(6,38,45)); lvl=5; h,r-ind=1,1
    [5,3]((2,11,14),(3,19,23),(4,25,31),(9,57,68),(1,6,7)); lvl=4; h,r-ind=1,1
      [5,3]((7,43,52),(10,62,75),(5,31,38),(9,56,68),(2,12,15)); lvl=5; h,r-ind=1,1
        [3,3]((6,37,45),(9,56,68),(10,62,75)); lvl=6; h,r-ind=1,1
        [3,3]((7,43,52),(6,37,45),(10,62,75)); lvl=6; h,r-ind=1,1
        [3,3]((6,37,45),(9,56,68),(5,31,38)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,15),(6,37,45),(5,31,38)); lvl=6; h,r-ind=1,1
        [3,3]((7,43,52),(2,12,15),(6,37,45)); lvl=6; h,r-ind=1,1
      [4,3]((7,43,52),(1,6,7),(2,11,14),(2,12,15)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((1,6,7),(3,18,22),(2,11,14)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,15),(3,18,22),(2,11,14)); lvl=6; h,r-ind=1,1
        [3,3]((7,43,52),(1,6,7),(3,18,22)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,15),(7,43,52),(3,18,22)); lvl=6; h,r-ind=1,1
      [4,3]((7,43,52),(10,62,75),(4,25,30),(1,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((4,25,30),(10,62,75),(11,68,82)); lvl=6; h,r-ind=1,1
        [3,3]((7,43,52),(10,62,75),(11,68,82)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(7,43,52),(11,68,82)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(4,25,30),(11,68,82)); lvl=6; h,r-ind=1,1
      [4,3]((3,19,23),(10,62,75),(4,25,30),(9,56,68)); lvl=5; h,r-ind=1,1
        [3,3]((13,81,98),(10,62,75),(4,25,30)); lvl=6; h,r-ind=1,1
        [3,3]((3,19,23),(13,81,98),(4,25,30)); lvl=6; h,r-ind=1,1
        [3,3]((9,56,68),(13,81,98),(10,62,75)); lvl=6; h,r-ind=1,1
        [3,3]((3,19,23),(9,56,68),(13,81,98)); lvl=6; h,r-ind=1,1
      [3,3]((3,19,23),(4,25,30),(9,57,68)); lvl=5; h,r-ind=1,1
      [3,3]((4,25,30),(1,6,7),(9,57,68)); lvl=5; h,r-ind=1,1
      [3,3]((4,25,31),(5,31,38),(2,12,15)); lvl=5; h,r-ind=1,1
      [4,3]((3,19,23),(4,25,31),(5,31,38),(9,56,68)); lvl=5; h,r-ind=1,1
        [3,3]((8,50,61),(4,25,31),(5,31,38)); lvl=6; h,r-ind=1,1
        [3,3]((9,56,68),(8,50,61),(5,31,38)); lvl=6; h,r-ind=1,1
        [3,3]((3,19,23),(9,56,68),(8,50,61)); lvl=6; h,r-ind=1,1
        [3,3]((3,19,23),(8,50,61),(4,25,31)); lvl=6; h,r-ind=1,1
    [3,3]((2,13,16),(3,19,23),(4,25,31)); lvl=4; h,r-ind=1,1
    [5,3]((2,13,16),(3,19,23),(3,20,24),(9,57,68),(5,32,38)); lvl=4; h,r-ind=1,1
      [4,3]((3,19,23),(12,77,93),(7,45,54),(8,51,61)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((7,45,54),(12,77,93),(10,64,77)); lvl=6; h,r-ind=1,1
        [3,3]((3,19,23),(12,77,93),(10,64,77)); lvl=6; h,r-ind=1,1
        [3,3]((8,51,61),(7,45,54),(10,64,77)); lvl=6; h,r-ind=1,1
        [3,3]((3,19,23),(8,51,61),(10,64,77)); lvl=6; h,r-ind=1,1
      [4,3]((4,26,31),(5,32,38),(7,45,54),(8,51,61)); lvl=5; h,r-ind=1,1
        [3,3]((12,77,92),(5,32,38),(8,51,61)); lvl=6; h,r-ind=1,1
        [3,3]((7,45,54),(12,77,92),(8,51,61)); lvl=6; h,r-ind=1,1
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          [3,3]((4,26,31),(7,45,54),(12,77,92)); lvl=6; h,r-ind=1,1
          [3,3]((4,26,31),(12,77,92),(5,32,38)); lvl=6; h,r-ind=1,1
        [3,3]((3,19,23),(9,57,68),(8,51,61)); lvl=5; h,r-ind=1,1
        [3,3]((5,32,38),(9,57,68),(8,51,61)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,16),(3,19,23),(12,77,93)); lvl=5; h,r-ind=1,1
        [5,3]((2,13,16),(3,20,24),(4,26,31),(12,77,93),(7,45,54)); lvl=5; h,r-ind=1,1
          [4,3]((15,97,117),(13,84,101),(7,45,54),(9,58,70)); lvl=6; h,r-ind=1,1
            [3,3]((13,84,101),(7,45,54),(22,142,171)); lvl=7; h,r-ind=1,1
            [3,3]((9,58,70),(7,45,54),(22,142,171)); lvl=7; h,r-ind=1,1
            [3,3]((15,97,117),(13,84,101),(22,142,171)); lvl=7; h,r-ind=1,1
            [3,3]((9,58,70),(15,97,117),(22,142,171)); lvl=7; h,r-ind=1,1
          [3,3]((12,77,93),(7,45,54),(9,58,70)); lvl=6; h,r-ind=1,1
          [3,3]((2,13,16),(12,77,93),(9,58,70)); lvl=6; h,r-ind=1,1
          [3,3]((2,13,16),(15,97,117),(9,58,70)); lvl=6; h,r-ind=1,1
          [3,3]((13,84,101),(4,26,31),(7,45,54)); lvl=6; h,r-ind=1,1
          [4,3]((6,39,47),(15,97,117),(13,84,101),(4,26,31)); lvl=6; h,r-ind=1,1
            [3,3]((19,123,148),(13,84,101),(15,97,117)); lvl=7; h,r-ind=1,1
            [3,3]((6,39,47),(19,123,148),(15,97,117)); lvl=7; h,r-ind=1,1
            [3,3]((4,26,31),(6,39,47),(19,123,148)); lvl=7; h,r-ind=1,1
            [3,3]((4,26,31),(19,123,148),(13,84,101)); lvl=7; h,r-ind=1,1
          [3,3]((2,13,16),(6,39,47),(15,97,117)); lvl=6; h,r-ind=1,1
          [3,3]((3,20,24),(2,13,16),(6,39,47)); lvl=6; h,r-ind=1,1
          [3,3]((3,20,24),(6,39,47),(4,26,31)); lvl=6; h,r-ind=1,1
      [3,3]((2,13,15),(3,20,24),(5,32,38)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((4,27,33),(2,13,16),(3,20,24)); lvl=4; h,r-ind=1,1
    [4,3]((2,16,19),(4,27,33),(1,8,9),(2,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,20,24),(2,13,15),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,17),(3,20,24),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((4,29,35),(2,14,17),(1,7,8)); lvl=4; h,r-ind=1,1
      [4,3]((4,29,35),(2,16,19),(1,8,9),(1,7,8)); lvl=4; h,r-ind=1,1
        [4,3]((2,15,18),(4,30,35),(2,16,19),(1,8,9)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,23,27),(2,16,19),(1,8,9)); lvl=6; h,r-ind=1,1
          [3,3]((4,30,35),(3,23,27),(1,8,9)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,18),(4,30,35),(3,23,27)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,18),(3,23,27),(2,16,19)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,8),(4,30,35),(1,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,18),(1,7,8),(4,30,35)); lvl=5; h,r-ind=1,1
        [3,3]((4,29,35),(2,15,18),(1,7,8)); lvl=5; h,r-ind=1,1
      [3,3]((2,14,17),(3,20,24),(4,27,33)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(2,16,19),(1,8,9)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,5,5),(2,11,13),(1,8,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,7),(3,17,18),(1,5,5),(2,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,12),(3,17,18),(1,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,13),(2,11,12),(1,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,12),(3,17,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,13),(2,11,12)); lvl=4; h,r-ind=1,1
    [5,3]((1,6,6),(1,6,7),(2,13,15),(1,7,7),(3,17,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,19,20),(1,7,7),(1,6,6)); lvl=4; h,r-ind=1,1
      [4,3]((2,12,13),(3,19,20),(4,25,27),(1,6,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,25,27),(5,31,33),(3,19,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(5,31,33),(3,19,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,13),(4,25,27),(5,31,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(2,12,13),(5,31,33)); lvl=5; h,r-ind=1,1
      [3,3]((3,17,18),(2,12,13),(1,6,6)); lvl=4; h,r-ind=1,1
      [4,3]((3,19,21),(3,19,20),(4,25,27),(1,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,25,27),(3,19,20),(9,57,61)); lvl=5; h,r-ind=1,1
        [4,3]((2,13,14),(1,7,7),(3,19,20),(9,57,61)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,32,34),(1,7,7),(3,19,20)); lvl=6; h,r-ind=1,1
          [3,3]((9,57,61),(5,32,34),(3,19,20)); lvl=6; h,r-ind=1,1
          [3,3]((2,13,14),(9,57,61),(5,32,34)); lvl=6; h,r-ind=1,1
          [3,3]((2,13,14),(5,32,34),(1,7,7)); lvl=6; h,r-ind=1,1
        [4,3]((3,19,21),(2,13,14),(4,25,27),(9,57,61)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,13,14),(6,38,41),(9,57,61)); lvl=6; h,r-ind=1,1
          [3,3]((4,25,27),(6,38,41),(9,57,61)); lvl=6; h,r-ind=1,1
          [3,3]((3,19,21),(4,25,27),(6,38,41)); lvl=6; h,r-ind=1,1
          [3,3]((3,19,21),(2,13,14),(6,38,41)); lvl=6; h,r-ind=1,1
      [3,3]((2,13,15),(3,19,21),(1,7,7)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,6,7),(2,13,15),(3,19,21)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,7),(2,12,13),(3,19,21),(4,25,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,13),(4,25,27),(5,31,34)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,21),(4,25,27),(5,31,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(3,19,21),(5,31,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(2,12,13),(5,31,34)); lvl=5; h,r-ind=1,1
      [3,3]((3,17,18),(1,6,7),(2,12,13)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,6),(1,7,7)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,8,9),(2,13,15),(1,7,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,7),(1,7,8),(2,13,15),(2,15,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,14,15),(1,7,8),(2,13,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,7),(2,14,15),(2,13,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,15),(2,14,15),(1,7,8)); lvl=5; h,r-ind=1,1
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          [3,3]((1,7,7),(2,15,15),(2,14,15)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(1,7,7),(2,15,15)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,7,8),(2,15,15)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,8,9),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(3,17,18),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(1,5,5)); lvl=3; h,r-ind=1,1
[5,3]((1,3,6),(2,6,13),(1,4,9),(1,6,13),(2,11,22)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,9),(1,5,11),(2,7,15),(2,9,19)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,11),(4,17,37),(2,9,19),(2,8,17)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,13,28),(2,8,17),(4,17,37)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(3,13,28),(4,17,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,19),(3,13,28),(2,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(2,9,19),(3,13,28)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,15),(1,4,9),(4,17,37),(2,8,17)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,4,9),(4,17,37),(3,12,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,17),(4,17,37),(3,12,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,15),(1,4,9),(3,12,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,17),(2,7,15),(3,12,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,9),(1,5,11),(4,17,37)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,6),(2,9,18),(2,7,15),(2,9,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,8),(2,9,18),(2,9,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(2,8,17),(2,9,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,6),(1,4,8),(2,8,17),(2,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(2,8,17),(3,11,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,15),(2,8,17),(3,11,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,8),(3,11,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,15),(1,3,6),(3,11,23)); lvl=4; h,r-ind=1,1
  [5,3]((1,5,10),(2,9,18),(1,6,13),(1,5,11),(2,9,19)); lvl=2; h,r-ind=1,1
    [5,3]((2,9,18),(4,19,40),(5,24,50),(2,9,19),(4,19,39)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,29),(5,24,50),(4,19,39)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,29),(2,9,18),(4,19,39)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,19),(3,14,29),(2,9,18)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,40),(3,14,29),(5,24,50)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,40),(2,9,19),(3,14,29)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,10),(2,9,18),(4,19,39)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,10),(2,10,21),(5,24,50),(4,19,39)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,21),(5,24,50),(6,29,60)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,39),(5,24,50),(6,29,60)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(2,10,21),(6,29,60)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,39),(1,5,10),(6,29,60)); lvl=4; h,r-ind=1,1
    [4,3]((2,10,21),(4,19,40),(5,24,50),(1,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,29,61),(4,19,40),(5,24,50)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,21),(6,29,61),(5,24,50)); lvl=4; h,r-ind=1,1
      [3,3]((6,29,61),(1,5,11),(4,19,40)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,21),(6,29,61),(1,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,13),(2,10,21),(1,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,10),(1,6,13),(2,10,21)); lvl=3; h,r-ind=1,1
    [3,3]((4,19,40),(1,5,11),(2,9,19)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,10),(2,11,22),(1,6,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,9),(2,6,13),(2,7,15)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,6),(2,6,13),(2,7,15)); lvl=2; h,r-ind=1,1
[4,3]((1,8,19),(2,9,21),(1,4,9),(1,6,13)); lvl=1; h,r-ind=2,2
  [3,3]((2,9,21),(1,6,14),(1,4,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,11),(1,6,14),(1,4,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,11),(1,6,13),(1,7,16),(1,6,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,13),(1,7,16),(2,12,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,14),(1,7,16),(2,12,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,11),(1,6,13),(2,12,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,14),(1,5,11),(2,12,27)); lvl=3; h,r-ind=1,1
  [3,3]((1,8,19),(1,7,16),(1,6,14)); lvl=2; h,r-ind=1,1
  [3,3]((1,8,19),(2,9,21),(1,6,14)); lvl=2; h,r-ind=1,1
[5,3]((1,3,6),(2,6,9),(2,16,19),(1,8,11),(2,11,22)); lvl=1; h,r-ind=5,1
  [4,3]((2,11,14),(2,11,15),(2,6,9),(1,3,5)); lvl=2; h,r-ind=5,1
    [4,3]((2,11,14),(4,17,23),(1,5,7),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,13),(3,13,18),(5,23,32)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [5,3]((2,9,12),(3,14,19),(9,42,58),(3,13,18),(5,23,32)); lvl=4; h,r-ind=1,1
        [4,3]((7,32,44),(8,37,51),(5,23,32),(4,18,25)); lvl=5; h,r-ind=1,1
          [3,3]((8,37,51),(5,23,32),(12,55,76)); lvl=6; h,r-ind=1,1
          [3,3]((4,18,25),(5,23,32),(12,55,76)); lvl=6; h,r-ind=1,1
          [3,3]((7,32,44),(4,18,25),(12,55,76)); lvl=6; h,r-ind=1,1
          [3,3]((7,32,44),(8,37,51),(12,55,76)); lvl=6; h,r-ind=1,1
        [5,3]((2,9,12),(12,55,75),(7,32,44),(3,13,18),(4,18,25)); lvl=5; h,r-ind=1,1
          [4,3]((15,68,93),(13,59,81),(6,27,37),(4,18,25)); lvl=6; h,r-ind=1,1
            [3,3]((19,86,118),(4,18,25),(6,27,37)); lvl=7; h,r-ind=1,1
            [3,3]((15,68,93),(19,86,118),(6,27,37)); lvl=7; h,r-ind=1,1
            [3,3]((13,59,81),(19,86,118),(4,18,25)); lvl=7; h,r-ind=1,1
            [3,3]((15,68,93),(13,59,81),(19,86,118)); lvl=7; h,r-ind=1,1
          [3,3]((3,13,18),(6,27,37),(4,18,25)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,12),(3,13,18),(6,27,37)); lvl=6; h,r-ind=1,1
          [3,3]((7,32,44),(13,59,81),(4,18,25)); lvl=6; h,r-ind=1,1
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          [3,3]((2,9,12),(15,68,93),(6,27,37)); lvl=6; h,r-ind=1,1
          [4,3]((9,41,56),(7,32,44),(15,68,93),(13,59,81)); lvl=6; h,r-ind=1,1
            [3,3]((7,32,44),(13,59,81),(22,100,137)); lvl=7; h,r-ind=1,1
            [3,3]((15,68,93),(13,59,81),(22,100,137)); lvl=7; h,r-ind=1,1
            [3,3]((9,41,56),(7,32,44),(22,100,137)); lvl=7; h,r-ind=1,1
            [3,3]((15,68,93),(9,41,56),(22,100,137)); lvl=7; h,r-ind=1,1
          [3,3]((2,9,12),(9,41,56),(15,68,93)); lvl=6; h,r-ind=1,1
          [3,3]((12,55,75),(9,41,56),(7,32,44)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,12),(12,55,75),(9,41,56)); lvl=6; h,r-ind=1,1
        [3,3]((8,37,51),(9,42,58),(5,23,32)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,19),(8,37,51),(9,42,58)); lvl=5; h,r-ind=1,1
        [4,3]((3,14,19),(12,55,75),(7,32,44),(8,37,51)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((10,46,63),(7,32,44),(12,55,75)); lvl=6; h,r-ind=1,1
          [3,3]((3,14,19),(10,46,63),(12,55,75)); lvl=6; h,r-ind=1,1
          [3,3]((8,37,51),(10,46,63),(7,32,44)); lvl=6; h,r-ind=1,1
          [3,3]((3,14,19),(8,37,51),(10,46,63)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,12),(3,14,19),(12,55,75)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,12),(4,17,23),(3,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,12),(4,19,25),(3,14,19)); lvl=4; h,r-ind=1,1
      [4,3]((9,42,58),(1,5,7),(2,9,13),(5,23,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(6,28,39),(2,9,13)); lvl=5; h,r-ind=1,1
        [3,3]((5,23,32),(6,28,39),(2,9,13)); lvl=5; h,r-ind=1,1
        [3,3]((5,23,32),(9,42,58),(6,28,39)); lvl=5; h,r-ind=1,1
        [3,3]((9,42,58),(1,5,7),(6,28,39)); lvl=5; h,r-ind=1,1
      [5,3]((2,11,14),(4,19,25),(3,14,19),(9,42,58),(1,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((5,24,32),(2,10,13),(4,19,25)); lvl=5; h,r-ind=1,1
        [4,3]((9,43,58),(5,24,32),(3,14,19),(4,19,25)); lvl=5; h,r-ind=1,1
          [3,3]((8,38,51),(4,19,25),(5,24,32)); lvl=6; h,r-ind=1,1
          [3,3]((9,43,58),(8,38,51),(5,24,32)); lvl=6; h,r-ind=1,1
          [3,3]((3,14,19),(9,43,58),(8,38,51)); lvl=6; h,r-ind=1,1
          [3,3]((3,14,19),(8,38,51),(4,19,25)); lvl=6; h,r-ind=1,1
        [4,3]((4,19,26),(9,43,58),(10,48,65),(3,14,19)); lvl=5; h,r-ind=1,1
          [3,3]((13,62,84),(9,43,58),(10,48,65)); lvl=6; h,r-ind=1,1
          [3,3]((4,19,26),(13,62,84),(10,48,65)); lvl=6; h,r-ind=1,1
          [3,3]((3,14,19),(4,19,26),(13,62,84)); lvl=6; h,r-ind=1,1
          [3,3]((3,14,19),(13,62,84),(9,43,58)); lvl=6; h,r-ind=1,1
        [3,3]((4,19,26),(3,14,19),(9,42,58)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(4,19,26),(9,42,58)); lvl=5; h,r-ind=1,1
        [5,3]((7,34,46),(9,43,58),(5,24,32),(10,48,65),(2,10,13)); lvl=5; h,r-ind=1,1
          [3,3]((5,24,32),(6,29,39),(2,10,13)); lvl=6; h,r-ind=1,1
          [3,3]((7,34,46),(6,29,39),(2,10,13)); lvl=6; h,r-ind=1,1
          [3,3]((10,48,65),(7,34,46),(6,29,39)); lvl=6; h,r-ind=1,1
          [3,3]((9,43,58),(5,24,32),(6,29,39)); lvl=6; h,r-ind=1,1
          [3,3]((9,43,58),(10,48,65),(6,29,39)); lvl=6; h,r-ind=1,1
        [4,3]((2,11,14),(1,5,7),(7,34,46),(2,10,13)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((1,5,7),(3,15,20),(7,34,46)); lvl=6; h,r-ind=1,1
          [3,3]((2,10,13),(3,15,20),(7,34,46)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,14),(2,10,13),(3,15,20)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,14),(1,5,7),(3,15,20)); lvl=6; h,r-ind=1,1
        [4,3]((1,5,7),(4,19,26),(7,34,46),(10,48,65)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,26),(10,48,65),(11,53,72)); lvl=6; h,r-ind=1,1
          [3,3]((7,34,46),(10,48,65),(11,53,72)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,7),(4,19,26),(11,53,72)); lvl=6; h,r-ind=1,1
          [3,3]((7,34,46),(1,5,7),(11,53,72)); lvl=6; h,r-ind=1,1
    [4,3]((2,6,9),(4,17,23),(1,3,5),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(4,17,23),(3,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,11),(1,4,6),(3,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,9,13),(3,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,11),(4,15,21),(1,4,6)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,9),(4,15,21),(1,4,6),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(4,15,21),(1,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,21),(2,7,10),(1,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(4,14,21),(1,4,6)); lvl=5; h,r-ind=1,1
        [4,3]((2,6,9),(1,3,5),(4,14,21),(2,7,10)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((1,3,5),(3,10,15),(4,14,21)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,10),(3,10,15),(4,14,21)); lvl=6; h,r-ind=1,1
          [3,3]((2,6,9),(1,3,5),(3,10,15)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,10),(2,6,9),(3,10,15)); lvl=6; h,r-ind=1,1
    [3,3]((2,11,14),(2,11,15),(1,5,7)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,8),(2,11,15),(2,11,17),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,13),(2,10,15)); lvl=3; h,r-ind=1,1
    [5,3]((1,5,8),(1,3,5),(7,36,55),(2,9,13),(2,10,15)); lvl=3; h,r-ind=1,1
      [4,3]((6,29,44),(3,14,21),(2,10,15),(2,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,24,36),(2,9,13),(3,14,21)); lvl=5; h,r-ind=1,1
        [3,3]((6,29,44),(5,24,36),(3,14,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,15),(6,29,44),(5,24,36)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,15),(5,24,36),(2,9,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(3,14,21),(2,9,13)); lvl=4; h,r-ind=1,1
      [5,3]((1,4,6),(5,24,37),(7,34,52),(6,29,44),(3,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((7,34,52),(4,19,29),(5,24,37)); lvl=5; h,r-ind=1,1
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      [3,3]((1,4,6),(4,19,29),(5,24,37)); lvl=5; h,r-ind=1,1
      [3,3]((7,34,52),(4,19,29),(6,29,44)); lvl=5; h,r-ind=1,1
      [3,3]((3,14,21),(4,19,29),(6,29,44)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(3,14,21),(4,19,29)); lvl=5; h,r-ind=1,1
    [4,3]((1,5,8),(1,4,6),(1,3,5),(5,24,37)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((2,9,14),(1,4,6),(1,3,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(2,9,14),(1,3,5)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,14),(5,24,37),(1,4,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(2,9,14),(5,24,37)); lvl=5; h,r-ind=1,1
    [4,3]((7,34,52),(6,29,44),(3,15,23),(2,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,15,23),(2,10,15),(9,44,67)); lvl=5; h,r-ind=1,1
      [3,3]((6,29,44),(2,10,15),(9,44,67)); lvl=5; h,r-ind=1,1
      [3,3]((7,34,52),(6,29,44),(9,44,67)); lvl=5; h,r-ind=1,1
      [3,3]((7,34,52),(3,15,23),(9,44,67)); lvl=5; h,r-ind=1,1
    [3,3]((3,15,23),(7,36,55),(2,10,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(3,15,23),(7,36,55)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,8),(5,24,37),(7,34,52),(3,15,23)); lvl=4; h,r-ind=1,1
      [3,3]((5,24,37),(7,34,52),(8,39,60)); lvl=5; h,r-ind=1,1
      [3,3]((3,15,23),(7,34,52),(8,39,60)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(3,15,23),(8,39,60)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(5,24,37),(8,39,60)); lvl=5; h,r-ind=1,1
  [5,3]((7,36,55),(2,11,16),(4,21,32),(1,5,7),(2,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((8,41,61),(2,10,15),(1,5,7)); lvl=4; h,r-ind=1,1
    [5,3]((2,11,16),(3,16,24),(5,26,39),(8,41,61),(1,5,7)); lvl=4; h,r-ind=1,1
      [4,3]((3,16,24),(9,47,70),(4,21,31),(10,52,77)); lvl=5; h,r-ind=1,1
        [3,3]((13,68,101),(10,52,77),(9,47,70)); lvl=6; h,r-ind=1,1
        [3,3]((3,16,24),(13,68,101),(9,47,70)); lvl=6; h,r-ind=1,1
        [3,3]((4,21,31),(13,68,101),(10,52,77)); lvl=6; h,r-ind=1,1
        [3,3]((3,16,24),(4,21,31),(13,68,101)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,7),(4,21,31),(10,52,77)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,16),(1,5,7),(4,21,31)); lvl=5; h,r-ind=1,1
      [4,3]((5,26,39),(9,47,70),(6,31,46),(10,52,77)); lvl=5; h,r-ind=1,1
        [3,3]((10,52,77),(9,47,70),(15,78,116)); lvl=6; h,r-ind=1,1
        [3,3]((5,26,39),(9,47,70),(15,78,116)); lvl=6; h,r-ind=1,1
        [3,3]((6,31,46),(5,26,39),(15,78,116)); lvl=6; h,r-ind=1,1
        [3,3]((6,31,46),(10,52,77),(15,78,116)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,7),(6,31,46),(10,52,77)); lvl=5; h,r-ind=1,1
      [3,3]((5,26,39),(8,41,61),(6,31,46)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(8,41,61),(6,31,46)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,16),(3,16,24),(4,21,31)); lvl=5; h,r-ind=1,1
      [3,3]((5,26,39),(3,16,24),(9,47,70)); lvl=5; h,r-ind=1,1
    [4,3]((5,26,39),(6,31,47),(8,41,61),(2,10,15)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((7,36,54),(6,31,47),(2,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((8,41,61),(7,36,54),(2,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((5,26,39),(8,41,61),(7,36,54)); lvl=5; h,r-ind=1,1
      [3,3]((5,26,39),(7,36,54),(6,31,47)); lvl=5; h,r-ind=1,1
    [3,3]((6,31,47),(7,36,55),(2,10,15)); lvl=4; h,r-ind=1,1
    [3,3]((4,21,32),(6,31,47),(7,36,55)); lvl=4; h,r-ind=1,1
    [4,3]((4,21,32),(3,16,24),(5,26,39),(6,31,47)); lvl=4; h,r-ind=1,1
      [3,3]((9,47,71),(5,26,39),(3,16,24)); lvl=5; h,r-ind=1,1
      [3,3]((4,21,32),(9,47,71),(3,16,24)); lvl=5; h,r-ind=1,1
      [3,3]((6,31,47),(9,47,71),(5,26,39)); lvl=5; h,r-ind=1,1
      [3,3]((4,21,32),(6,31,47),(9,47,71)); lvl=5; h,r-ind=1,1
  [3,3]((2,11,16),(2,11,15),(1,5,7)); lvl=3; h,r-ind=1,1
  [3,3]((2,11,16),(2,11,17),(4,21,32)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,5,8),(7,36,55),(2,11,17),(4,21,32)); lvl=3; h,r-ind=1,1
    [3,3]((5,26,40),(4,21,32),(7,36,55)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(5,26,40),(7,36,55)); lvl=4; h,r-ind=1,1
    [3,3]((5,26,40),(2,11,17),(4,21,32)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(5,26,40),(2,11,17)); lvl=4; h,r-ind=1,1
[6,3]((1,3,6),(2,9,18),(1,5,9),(3,16,26),(1,5,8),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,18),(2,9,17),(1,4,8)); lvl=3; h,r-ind=1,1
  [4,3]((3,13,23),(3,14,25),(2,9,17),(1,4,8)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,16),(5,22,41),(2,9,17),(3,14,25)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,18,33),(2,9,17),(5,22,41)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,16),(4,18,33),(5,22,41)); lvl=5; h,r-ind=1,1
      [3,3]((3,14,25),(4,18,33),(2,9,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,16),(3,14,25),(4,18,33)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,8),(5,22,41),(2,9,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,16),(1,4,8),(5,22,41)); lvl=4; h,r-ind=1,1
    [3,3]((3,13,23),(2,9,16),(1,4,8)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,6),(1,4,7),(3,13,23),(1,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(3,13,23),(2,8,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(3,13,23),(2,8,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(1,4,7),(2,8,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(1,3,6),(2,8,15)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,6),(1,3,5),(1,4,7)); lvl=3; h,r-ind=1,1
  [4,3]((3,13,23),(3,14,25),(5,24,41),(3,14,24)); lvl=3; h,r-ind=1,1
    [4,3]((3,14,24),(7,33,57),(12,56,97),(5,24,41)); lvl=4; h,r-ind=1,1
      [3,3]((12,56,97),(10,47,81),(7,33,57)); lvl=5; h,r-ind=1,1
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        [3,3]((5,24,41),(10,47,81),(7,33,57)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,24),(5,24,41),(10,47,81)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,24),(12,56,97),(10,47,81)); lvl=5; h,r-ind=1,1
      [3,3]((4,19,33),(7,33,57),(5,24,41)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,16),(4,19,33),(7,33,57),(12,56,97)); lvl=4; h,r-ind=1,1
        [3,3]((9,42,73),(4,19,33),(7,33,57)); lvl=5; h,r-ind=1,1
        [3,3]((12,56,97),(9,42,73),(7,33,57)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,16),(12,56,97),(9,42,73)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,16),(9,42,73),(4,19,33)); lvl=5; h,r-ind=1,1
      [4,3]((3,14,24),(3,13,23),(2,9,16),(12,56,97)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((5,23,40),(2,9,16),(3,13,23)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,24),(5,23,40),(3,13,23)); lvl=5; h,r-ind=1,1
        [3,3]((12,56,97),(5,23,40),(2,9,16)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,24),(12,56,97),(5,23,40)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,16),(3,14,25),(4,19,33)); lvl=4; h,r-ind=1,1
    [4,3]((3,15,25),(5,24,41),(3,14,24),(1,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,24,41),(6,29,49),(3,14,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(6,29,49),(3,14,24)); lvl=4; h,r-ind=1,1
      [3,3]((3,15,25),(5,24,41),(6,29,49)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(3,15,25),(6,29,49)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,7),(3,13,23),(3,14,24),(1,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,23),(3,14,24),(4,18,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(3,14,24),(4,18,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,13,23),(4,18,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(1,4,7),(4,18,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(1,4,7),(1,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((3,14,25),(1,5,9),(2,9,18),(2,9,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,9),(3,14,26),(2,9,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,17),(3,14,26),(2,9,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,17),(3,14,25),(3,14,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,25),(1,5,9),(3,14,26)); lvl=4; h,r-ind=1,1
    [5,3]((3,14,25),(3,16,26),(3,15,25),(5,24,41),(1,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,17),(3,14,25),(4,19,33)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,17),(5,24,41),(4,19,33)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,17),(3,15,25),(5,24,41)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,26),(2,10,17),(3,15,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,10,17),(3,14,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,26),(1,5,9),(2,10,17)); lvl=4; h,r-ind=1,1
    [3,3]((3,16,26),(3,15,25),(1,5,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,10),(2,9,18),(1,5,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,10),(2,11,22),(1,6,11)); lvl=2; h,r-ind=1,1
  [4,3]((3,16,26),(1,5,8),(2,11,17),(4,22,35)); lvl=2; h,r-ind=1,1
    [3,3]((5,27,43),(2,11,17),(1,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,16,26),(5,27,43),(1,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((4,22,35),(5,27,43),(2,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,16,26),(4,22,35),(5,27,43)); lvl=3; h,r-ind=1,1
  [4,3]((2,16,19),(2,11,14),(2,11,15),(1,8,10)); lvl=2; h,r-ind=5,1
    [3,3]((1,6,8),(2,11,14),(2,11,15)); lvl=3; h,r-ind=1,1
    [4,3]((4,27,33),(1,6,8),(2,13,17),(2,11,14)); lvl=3; h,r-ind=1,1
      [4,3]((5,32,41),(9,57,73),(1,6,8),(2,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((9,57,73),(1,6,8),(6,38,49)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,17),(1,6,8),(6,38,49)); lvl=5; h,r-ind=1,1
        [3,3]((5,32,41),(9,57,73),(6,38,49)); lvl=5; h,r-ind=1,1
        [3,3]((5,32,41),(2,13,17),(6,38,49)); lvl=5; h,r-ind=1,1
      [3,3]((3,20,25),(5,32,41),(2,13,17)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [5,3]((3,20,25),(2,13,16),(3,19,24),(5,32,41),(9,57,73)); lvl=4; h,r-ind=1,1
        [3,3]((3,19,24),(9,57,73),(8,51,65)); lvl=5; h,r-ind=1,1
        [3,3]((5,32,41),(9,57,73),(8,51,65)); lvl=5; h,r-ind=1,1
        [4,3]((4,26,33),(7,45,57),(5,32,41),(8,51,65)); lvl=5; h,r-ind=1,1
          [3,3]((8,51,65),(7,45,57),(12,77,98)); lvl=6; h,r-ind=1,1
          [3,3]((4,26,33),(7,45,57),(12,77,98)); lvl=6; h,r-ind=1,1
          [3,3]((5,32,41),(4,26,33),(12,77,98)); lvl=6; h,r-ind=1,1
          [3,3]((5,32,41),(8,51,65),(12,77,98)); lvl=6; h,r-ind=1,1
        [4,3]((12,77,97),(7,45,57),(3,19,24),(8,51,65)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((10,64,81),(7,45,57),(8,51,65)); lvl=6; h,r-ind=1,1
          [3,3]((10,64,81),(3,19,24),(8,51,65)); lvl=6; h,r-ind=1,1
          [3,3]((12,77,97),(10,64,81),(3,19,24)); lvl=6; h,r-ind=1,1
          [3,3]((12,77,97),(10,64,81),(7,45,57)); lvl=6; h,r-ind=1,1
        [3,3]((12,77,97),(2,13,16),(3,19,24)); lvl=5; h,r-ind=1,1
        [5,3]((3,20,25),(12,77,97),(4,26,33),(7,45,57),(2,13,16)); lvl=5; h,r-ind=1,1
          [3,3]((9,58,73),(7,45,57),(12,77,97)); lvl=6; h,r-ind=1,1
          [3,3]((2,13,16),(9,58,73),(12,77,97)); lvl=6; h,r-ind=1,1
          [4,3]((13,84,106),(9,58,73),(15,97,122),(7,45,57)); lvl=6; h,r-ind=1,1
            [3,3]((15,97,122),(9,58,73),(22,142,179)); lvl=7; h,r-ind=1,1
            [3,3]((7,45,57),(9,58,73),(22,142,179)); lvl=7; h,r-ind=1,1
            [3,3]((13,84,106),(7,45,57),(22,142,179)); lvl=7; h,r-ind=1,1
            [3,3]((13,84,106),(15,97,122),(22,142,179)); lvl=7; h,r-ind=1,1
          [3,3]((4,26,33),(13,84,106),(7,45,57)); lvl=6; h,r-ind=1,1
          [4,3]((6,39,49),(4,26,33),(13,84,106),(15,97,122)); lvl=6; h,r-ind=1,1
            [3,3]((19,123,155),(13,84,106),(4,26,33)); lvl=7; h,r-ind=1,1
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            [3,3]((6,39,49),(19,123,155),(4,26,33)); lvl=7; h,r-ind=1,1
            [3,3]((15,97,122),(6,39,49),(19,123,155)); lvl=7; h,r-ind=1,1
            [3,3]((15,97,122),(19,123,155),(13,84,106)); lvl=7; h,r-ind=1,1
          [3,3]((2,13,16),(6,39,49),(15,97,122)); lvl=6; h,r-ind=1,1
          [3,3]((3,20,25),(6,39,49),(4,26,33)); lvl=6; h,r-ind=1,1
          [3,3]((2,13,16),(3,20,25),(6,39,49)); lvl=6; h,r-ind=1,1
          [3,3]((2,13,16),(9,58,73),(15,97,122)); lvl=6; h,r-ind=1,1
      [3,3]((3,20,25),(2,13,16),(4,27,33)); lvl=4; h,r-ind=1,1
      [5,3]((2,11,14),(3,19,24),(4,25,31),(9,57,73),(1,6,8)); lvl=4; h,r-ind=1,1
        [4,3]((7,43,55),(1,6,8),(2,11,14),(2,12,15)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((1,6,8),(3,18,23),(2,11,14)); lvl=6; h,r-ind=1,1
          [3,3]((2,12,15),(3,18,23),(2,11,14)); lvl=6; h,r-ind=1,1
          [3,3]((7,43,55),(2,12,15),(3,18,23)); lvl=6; h,r-ind=1,1
          [3,3]((7,43,55),(1,6,8),(3,18,23)); lvl=6; h,r-ind=1,1
        [5,3]((5,31,39),(9,56,71),(10,62,79),(7,43,55),(2,12,15)); lvl=5; h,r-ind=1,1
          [3,3]((10,62,79),(9,56,71),(6,37,47)); lvl=6; h,r-ind=1,1
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          [3,3]((10,62,79),(7,43,55),(6,37,47)); lvl=6; h,r-ind=1,1
          [3,3]((2,12,15),(7,43,55),(6,37,47)); lvl=6; h,r-ind=1,1
        [3,3]((5,31,39),(4,25,31),(2,12,15)); lvl=5; h,r-ind=1,1
        [4,3]((3,19,24),(5,31,39),(9,56,71),(4,25,31)); lvl=5; h,r-ind=1,1
          [3,3]((8,50,63),(9,56,71),(5,31,39)); lvl=6; h,r-ind=1,1
          [3,3]((4,25,31),(8,50,63),(5,31,39)); lvl=6; h,r-ind=1,1
          [3,3]((3,19,24),(4,25,31),(8,50,63)); lvl=6; h,r-ind=1,1
          [3,3]((3,19,24),(8,50,63),(9,56,71)); lvl=6; h,r-ind=1,1
        [4,3]((3,19,24),(4,25,32),(9,56,71),(10,62,79)); lvl=5; h,r-ind=1,1
          [3,3]((13,81,103),(10,62,79),(4,25,32)); lvl=6; h,r-ind=1,1
          [3,3]((3,19,24),(13,81,103),(4,25,32)); lvl=6; h,r-ind=1,1
          [3,3]((9,56,71),(13,81,103),(10,62,79)); lvl=6; h,r-ind=1,1
          [3,3]((3,19,24),(9,56,71),(13,81,103)); lvl=6; h,r-ind=1,1
        [3,3]((3,19,24),(9,57,73),(4,25,32)); lvl=5; h,r-ind=1,1
        [4,3]((4,25,32),(10,62,79),(7,43,55),(1,6,8)); lvl=5; h,r-ind=1,1
          [3,3]((7,43,55),(10,62,79),(11,68,87)); lvl=6; h,r-ind=1,1
          [3,3]((4,25,32),(10,62,79),(11,68,87)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,8),(4,25,32),(11,68,87)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,8),(7,43,55),(11,68,87)); lvl=6; h,r-ind=1,1
        [3,3]((9,57,73),(4,25,32),(1,6,8)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,16),(3,19,24),(4,25,31)); lvl=4; h,r-ind=1,1
    [4,3]((4,27,33),(2,16,19),(2,13,17),(1,8,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,9),(2,16,19),(4,29,35),(1,8,10)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,10),(2,15,18),(2,16,19),(4,30,37)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,23,28),(2,15,18),(2,16,19)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,10),(3,23,28),(2,16,19)); lvl=6; h,r-ind=1,1
          [3,3]((3,23,28),(4,30,37),(2,15,18)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,10),(3,23,28),(4,30,37)); lvl=6; h,r-ind=1,1
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        [3,3]((1,7,9),(2,15,18),(4,29,35)); lvl=5; h,r-ind=1,1
      [3,3]((2,14,17),(1,7,9),(4,29,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,17),(3,20,25),(1,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,25),(2,13,17),(1,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((4,27,33),(2,14,17),(3,20,25)); lvl=4; h,r-ind=1,1
[4,3]((2,11,15),(2,11,17),(1,6,9),(1,8,10)); lvl=2; h,r-ind=1,1
  [4,3]((7,41,60),(2,11,17),(4,23,34),(1,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((5,29,43),(4,23,34),(2,11,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(5,29,43),(2,11,17)); lvl=4; h,r-ind=1,1
    [3,3]((7,41,60),(5,29,43),(4,23,34)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(7,41,60),(5,29,43)); lvl=4; h,r-ind=1,1
  [5,3]((1,8,10),(2,13,17),(2,12,17),(7,41,60),(1,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,19,26),(1,7,9),(2,13,17)); lvl=4; h,r-ind=1,1
    [4,3]((2,12,17),(3,19,26),(6,37,52),(2,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,31,43),(6,37,52),(3,19,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,17),(5,31,43),(3,19,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,12,17),(2,13,17),(5,31,43)); lvl=5; h,r-ind=1,1
      [3,3]((2,12,17),(5,31,43),(6,37,52)); lvl=5; h,r-ind=1,1
    [3,3]((2,12,17),(7,41,60),(3,18,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(7,41,60),(3,18,26)); lvl=4; h,r-ind=1,1
    [5,3]((7,43,61),(5,31,44),(3,19,26),(6,37,52),(1,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((7,43,61),(5,31,44),(4,25,35)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(5,31,44),(4,25,35)); lvl=5; h,r-ind=1,1
      [3,3]((7,43,61),(6,37,52),(4,25,35)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,26),(6,37,52),(4,25,35)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(3,19,26),(4,25,35)); lvl=5; h,r-ind=1,1
    [4,3]((1,8,10),(1,6,9),(5,31,44),(1,7,9)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((1,6,9),(5,31,44),(2,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(5,31,44),(2,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,10),(1,6,9),(2,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(1,8,10),(2,13,18)); lvl=5; h,r-ind=1,1
    [4,3]((2,12,17),(7,43,61),(6,37,52),(3,18,26)); lvl=4; h,r-ind=1,1
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      [3,3]((7,43,61),(6,37,52),(9,55,78)); lvl=5; h,r-ind=1,1
      [3,3]((2,12,17),(6,37,52),(9,55,78)); lvl=5; h,r-ind=1,1
      [3,3]((3,18,26),(2,12,17),(9,55,78)); lvl=5; h,r-ind=1,1
      [3,3]((3,18,26),(7,43,61),(9,55,78)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,9),(7,43,61),(5,31,44),(3,18,26)); lvl=4; h,r-ind=1,1
      [3,3]((5,31,44),(7,43,61),(8,49,70)); lvl=5; h,r-ind=1,1
      [3,3]((3,18,26),(7,43,61),(8,49,70)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(3,18,26),(8,49,70)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(5,31,44),(8,49,70)); lvl=5; h,r-ind=1,1
  [3,3]((1,6,8),(2,13,17),(2,12,17)); lvl=3; h,r-ind=1,1
  [3,3]((2,11,17),(2,11,16),(4,23,34)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((1,6,8),(2,12,17),(7,41,60),(2,11,16),(4,23,34)); lvl=3; h,r-ind=1,1
    [3,3]((7,41,60),(4,23,34),(6,35,51)); lvl=4; h,r-ind=1,1
    [4,3]((3,17,25),(5,29,42),(4,23,34),(6,35,51)); lvl=4; h,r-ind=1,1
      [3,3]((6,35,51),(5,29,42),(9,52,76)); lvl=5; h,r-ind=1,1
      [3,3]((3,17,25),(5,29,42),(9,52,76)); lvl=5; h,r-ind=1,1
      [3,3]((4,23,34),(3,17,25),(9,52,76)); lvl=5; h,r-ind=1,1
      [3,3]((4,23,34),(6,35,51),(9,52,76)); lvl=5; h,r-ind=1,1
    [4,3]((2,12,17),(8,47,67),(5,29,42),(6,35,51)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((5,29,42),(8,47,67),(7,41,59)); lvl=5; h,r-ind=1,1
      [3,3]((2,12,17),(8,47,67),(7,41,59)); lvl=5; h,r-ind=1,1
      [3,3]((6,35,51),(5,29,42),(7,41,59)); lvl=5; h,r-ind=1,1
      [3,3]((2,12,17),(6,35,51),(7,41,59)); lvl=5; h,r-ind=1,1
    [5,3]((1,6,8),(8,47,67),(2,11,16),(3,17,25),(5,29,42)); lvl=4; h,r-ind=1,1
      [3,3]((9,52,75),(3,17,25),(5,29,42)); lvl=5; h,r-ind=1,1
      [4,3]((9,52,75),(6,35,50),(10,58,83),(5,29,42)); lvl=5; h,r-ind=1,1
        [3,3]((15,87,125),(6,35,50),(10,58,83)); lvl=6; h,r-ind=1,1
        [3,3]((9,52,75),(15,87,125),(10,58,83)); lvl=6; h,r-ind=1,1
        [3,3]((5,29,42),(15,87,125),(6,35,50)); lvl=6; h,r-ind=1,1
        [3,3]((9,52,75),(5,29,42),(15,87,125)); lvl=6; h,r-ind=1,1
      [3,3]((8,47,67),(6,35,50),(5,29,42)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(8,47,67),(6,35,50)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(6,35,50),(10,58,83)); lvl=5; h,r-ind=1,1
      [4,3]((4,23,33),(9,52,75),(10,58,83),(3,17,25)); lvl=5; h,r-ind=1,1
        [3,3]((10,58,83),(13,75,108),(9,52,75)); lvl=6; h,r-ind=1,1
        [3,3]((3,17,25),(13,75,108),(9,52,75)); lvl=6; h,r-ind=1,1
        [3,3]((4,23,33),(10,58,83),(13,75,108)); lvl=6; h,r-ind=1,1
        [3,3]((3,17,25),(4,23,33),(13,75,108)); lvl=6; h,r-ind=1,1
      [3,3]((2,11,16),(4,23,33),(3,17,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,16),(4,23,33)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(4,23,33),(10,58,83)); lvl=5; h,r-ind=1,1
    [3,3]((2,12,17),(7,41,60),(6,35,51)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,17),(1,6,8),(8,47,67)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,15),(1,6,8),(2,11,16)); lvl=3; h,r-ind=1,1
[6,3]((2,13,22),(1,6,10),(3,17,27),(1,6,9),(1,8,10),(1,8,11)); lvl=2; h,r-ind=1,1
  [5,3]((3,19,30),(3,17,27),(3,18,28),(5,31,48),(1,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,12,19),(4,25,39),(3,19,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(2,12,19),(3,19,30)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,19),(5,31,48),(4,25,39)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,19),(3,18,28),(5,31,48)); lvl=4; h,r-ind=1,1
    [3,3]((3,17,27),(2,12,19),(3,18,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(3,17,27),(2,12,19)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,9),(3,17,27),(3,18,28)); lvl=3; h,r-ind=1,1
  [4,3]((2,13,22),(2,13,21),(3,19,30),(1,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,19,31),(2,13,21),(3,19,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(3,19,31),(3,19,30)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,22),(3,19,31),(2,13,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(2,13,22),(3,19,31)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,11),(3,20,30),(2,13,21),(3,19,30)); lvl=3; h,r-ind=1,1
    [4,3]((2,13,21),(5,33,52),(3,19,30),(2,13,20)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,26,41),(5,33,52),(2,13,20)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,30),(4,26,41),(2,13,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,21),(3,19,30),(4,26,41)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,21),(4,26,41),(5,33,52)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,11),(5,33,52),(2,13,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,11),(3,20,30),(2,13,20)); lvl=4; h,r-ind=1,1
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  [3,3]((2,13,22),(1,7,11),(2,13,21)); lvl=3; h,r-ind=1,1
  [4,3]((1,7,11),(3,20,30),(1,7,10),(1,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,20,30),(2,14,21),(1,7,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,11),(2,14,21),(1,7,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,11),(1,8,11),(2,14,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,11),(3,20,30),(2,14,21)); lvl=4; h,r-ind=1,1
  [4,3]((3,20,30),(3,19,30),(3,19,29),(5,31,48)); lvl=3; h,r-ind=1,1
    [4,3]((2,13,20),(12,76,117),(4,25,39),(7,44,68)); lvl=4; h,r-ind=1,1
      [3,3]((12,76,117),(9,57,88),(7,44,68)); lvl=5; h,r-ind=1,1
      [3,3]((4,25,39),(9,57,88),(7,44,68)); lvl=5; h,r-ind=1,1
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      [3,3]((2,13,20),(12,76,117),(9,57,88)); lvl=5; h,r-ind=1,1
    [3,3]((5,31,48),(4,25,39),(7,44,68)); lvl=4; h,r-ind=1,1
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      [4,3]((3,19,29),(5,31,48),(12,76,117),(7,44,68)); lvl=4; h,r-ind=1,1
        [3,3]((10,63,97),(7,44,68),(5,31,48)); lvl=5; h,r-ind=1,1
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        [3,3]((10,63,97),(12,76,117),(7,44,68)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,29),(10,63,97),(12,76,117)); lvl=5; h,r-ind=1,1
      [4,3]((3,19,29),(3,20,30),(2,13,20),(12,76,117)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((5,32,49),(3,20,30),(2,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((12,76,117),(5,32,49),(2,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,29),(12,76,117),(5,32,49)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,29),(5,32,49),(3,20,30)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,20),(3,19,30),(4,25,39)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,9),(3,18,28),(3,19,29),(5,31,48)); lvl=3; h,r-ind=1,1
      [3,3]((3,18,28),(5,31,48),(6,37,57)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,29),(5,31,48),(6,37,57)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(3,19,29),(6,37,57)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(3,18,28),(6,37,57)); lvl=4; h,r-ind=1,1
    [4,3]((3,20,30),(1,7,10),(1,6,9),(3,19,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,10),(1,6,9),(4,26,39)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,29),(1,6,9),(4,26,39)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,30),(1,7,10),(4,26,39)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,29),(3,20,30),(4,26,39)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(1,8,10),(1,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,10),(1,8,11),(1,8,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,11),(2,13,22),(1,6,10)); lvl=2; h,r-ind=1,1
  [4,3]((2,11,17),(4,22,35),(3,17,27),(1,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((5,28,44),(3,17,27),(4,22,35)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,17),(5,28,44),(4,22,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,9),(2,11,17),(5,28,44)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,9),(5,28,44),(3,17,27)); lvl=3; h,r-ind=1,1
  [7,3]((1,5,10),(1,5,9),(3,16,26),(1,6,11),(1,6,10),(4,22,35),(3,17,27)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,18),(3,16,26),(1,5,9)); lvl=3; h,r-ind=1,1
    [4,3]((4,21,38),(2,11,19),(2,11,18),(1,5,9)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,11,19),(2,11,18),(3,16,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,11,18),(3,16,28)); lvl=4; h,r-ind=1,1
      [3,3]((4,21,38),(2,11,19),(3,16,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(4,21,38),(3,16,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,10),(4,21,38),(1,5,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,19),(4,23,40),(2,11,18),(1,6,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,17,29),(4,23,40),(1,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,18),(3,17,29),(1,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,19),(2,11,18),(3,17,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,19),(3,17,29),(4,23,40)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,18),(3,17,27),(1,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((4,23,40),(1,6,11),(1,6,10)); lvl=3; h,r-ind=1,1
    [5,3]((1,5,10),(4,21,38),(2,11,19),(4,23,40),(1,6,11)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,19),(4,22,39),(3,16,29),(5,27,49)); lvl=4; h,r-ind=1,1
        [3,3]((5,27,49),(4,22,39),(7,38,68)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,19),(4,22,39),(7,38,68)); lvl=5; h,r-ind=1,1
        [3,3]((3,16,29),(2,11,19),(7,38,68)); lvl=5; h,r-ind=1,1
        [3,3]((3,16,29),(5,27,49),(7,38,68)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(3,16,29),(5,27,49)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,20),(4,22,39),(5,28,50),(5,27,49)); lvl=4; h,r-ind=1,1
        [3,3]((6,33,59),(4,22,39),(5,28,50)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,20),(6,33,59),(5,28,50)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,20),(5,27,49),(6,33,59)); lvl=5; h,r-ind=1,1
        [3,3]((5,27,49),(6,33,59),(4,22,39)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(2,11,20),(5,27,49)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(2,11,20),(5,28,50)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(1,6,11),(2,11,20)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,19),(4,22,39),(5,28,50),(3,17,30)); lvl=4; h,r-ind=1,1
        [3,3]((5,28,50),(4,22,39),(7,39,69)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,19),(4,22,39),(7,39,69)); lvl=5; h,r-ind=1,1
        [3,3]((3,17,30),(2,11,19),(7,39,69)); lvl=5; h,r-ind=1,1
        [3,3]((3,17,30),(5,28,50),(7,39,69)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,19),(4,23,40),(3,17,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(4,23,40),(3,17,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(5,28,50),(3,17,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,19),(4,21,38),(3,16,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(4,21,38),(3,16,29)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,18),(4,22,35),(3,16,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,18),(4,22,35),(3,17,27)); lvl=3; h,r-ind=1,1
[4,3]((1,8,19),(1,6,13),(1,8,11),(2,11,22)); lvl=1; h,r-ind=2,2
  [3,3]((1,6,12),(2,11,22),(1,6,13)); lvl=2; h,r-ind=1,1
  [4,3]((1,7,16),(1,6,12),(2,13,27),(1,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,13,28),(2,13,27),(1,6,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,13),(2,13,28),(1,6,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,16),(1,6,13),(2,13,28)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,16),(2,13,28),(2,13,27)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,12),(2,13,27),(4,26,51)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,6,12),(1,6,11),(2,13,22),(4,26,51)); lvl=2; h,r-ind=1,1
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  [4,3]((2,13,24),(6,37,70),(1,6,11),(2,13,22)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
    [4,3]((4,25,46),(1,6,11),(4,25,47),(6,37,70)); lvl=4; h,r-ind=1,2
      [3,3]((5,31,58),(6,37,70),(1,6,11)); lvl=5; h,r-ind=1,1
      [3,3]((4,25,46),(5,31,58),(1,6,11)); lvl=5; h,r-ind=1,1
      [3,3]((5,31,58),(4,25,47),(6,37,70)); lvl=5; h,r-ind=1,1
      [3,3]((4,25,46),(5,31,58),(4,25,47)); lvl=5; h,r-ind=1,1
    [3,3]((2,13,24),(4,25,46),(4,25,47)); lvl=4; h,r-ind=2,2; optimized-h
    [3,3]((2,13,24),(4,25,46),(2,13,23)); lvl=4; h,r-ind=2,2; optimized-h
    [4,3]((4,25,46),(2,13,23),(2,13,22),(1,6,11)); lvl=4; h,r-ind=1,2
      [3,3]((2,13,23),(2,13,22),(3,19,34)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,11),(2,13,22),(3,19,34)); lvl=5; h,r-ind=1,1
      [3,3]((4,25,46),(2,13,23),(3,19,34)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,11),(4,25,46),(3,19,34)); lvl=5; h,r-ind=1,1
  [4,3]((1,6,12),(2,13,25),(2,13,24),(6,37,70)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,24),(2,13,25),(3,19,36)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,12),(2,13,25),(3,19,36)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,12),(8,50,95),(3,19,36)); lvl=4; h,r-ind=1,1
    [4,3]((4,25,47),(8,50,95),(2,13,24),(3,19,36)); lvl=4; h,r-ind=1,1
      [3,3]((7,44,83),(8,50,95),(3,19,36)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,24),(7,44,83),(3,19,36)); lvl=5; h,r-ind=1,1
      [3,3]((4,25,47),(2,13,24),(7,44,83)); lvl=5; h,r-ind=1,1
      [3,3]((4,25,47),(7,44,83),(8,50,95)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,12),(4,25,47),(6,37,70),(8,50,95)); lvl=4; h,r-ind=1,1
      [3,3]((4,25,47),(5,31,59),(6,37,70)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,12),(5,31,59),(6,37,70)); lvl=5; h,r-ind=1,1
      [3,3]((8,50,95),(1,6,12),(5,31,59)); lvl=5; h,r-ind=1,1
      [3,3]((8,50,95),(4,25,47),(5,31,59)); lvl=5; h,r-ind=1,1
  [3,3]((1,6,12),(2,13,25),(4,26,51)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,12),(6,37,70),(1,6,11)); lvl=3; h,r-ind=1,1
[4,3]((1,8,15),(1,8,11),(2,13,22),(4,26,51)); lvl=2; h,r-ind=3,1; alert-h-inc
  [4,3]((2,13,22),(1,7,11),(2,13,24),(2,14,25)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,24),(1,7,12),(2,14,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,24),(2,13,23),(1,7,12)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,22),(2,13,23),(1,7,11),(1,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,34),(1,7,12),(1,7,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,22),(3,20,34),(1,7,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,23),(3,20,34),(1,7,12)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,22),(2,13,23),(3,20,34)); lvl=5; h,r-ind=1,1
  [4,3]((2,13,25),(1,7,13),(2,13,24),(2,14,25)); lvl=3; h,r-ind=1,1
    [3,3]((3,20,37),(1,7,13),(2,14,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,24),(3,20,37),(2,14,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,25),(3,20,37),(1,7,13)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,24),(2,13,25),(3,20,37)); lvl=4; h,r-ind=1,1
  [4,3]((1,8,15),(1,8,13),(1,7,13),(2,14,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,13),(2,14,25),(3,22,39)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,13),(2,14,25),(3,22,39)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,8,14),(1,8,13),(3,22,39)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,8,15),(1,8,14),(1,7,13),(3,22,39)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,8,14),(3,22,39),(2,15,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,13),(3,22,39),(2,15,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,15),(1,8,14),(2,15,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,13),(1,8,15),(2,15,27)); lvl=5; h,r-ind=1,1
  [4,3]((2,13,25),(4,26,51),(5,34,66),(1,7,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,13),(5,34,66),(3,20,39)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,13),(6,40,77),(3,20,39)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,25),(4,26,51),(6,40,77),(3,20,39)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((5,33,64),(3,20,39),(6,40,77)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,25),(5,33,64),(6,40,77)); lvl=5; h,r-ind=1,1
      [3,3]((5,33,64),(4,26,51),(3,20,39)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,25),(5,33,64),(4,26,51)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,13),(2,13,25),(6,40,77)); lvl=4; h,r-ind=1,1
  [3,3]((1,8,15),(5,34,66),(1,7,13)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
  [4,3]((1,8,11),(1,8,13),(1,7,11),(2,14,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,13),(2,14,25),(1,7,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,13),(1,8,12),(1,7,12)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,11),(1,8,12),(1,7,11),(1,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(1,7,12),(2,15,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,12),(1,7,12),(2,15,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,11),(1,7,11),(2,15,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,12),(1,8,11),(2,15,23)); lvl=5; h,r-ind=1,1
[5,3]((1,8,19),(1,7,16),(2,13,27),(1,8,15),(4,26,51)); lvl=2; h,r-ind=1,1
  [4,3]((1,7,14),(4,26,51),(5,34,66),(2,13,26)); lvl=3; h,r-ind=1,1
    [4,3]((2,13,26),(6,40,79),(4,26,51),(3,20,39)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((5,33,65),(6,40,79),(3,20,39)); lvl=5; h,r-ind=1,1
      [3,3]((4,26,51),(5,33,65),(3,20,39)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,26),(4,26,51),(5,33,65)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,26),(5,33,65),(6,40,79)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,14),(6,40,79),(3,20,39)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,14),(5,34,66),(3,20,39)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,14),(2,13,26),(6,40,79)); lvl=4; h,r-ind=1,1
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```
      [3,3]((2,14,29),(1,7,14),(2,13,26)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,15),(2,14,29),(2,13,27),(2,13,26)); lvl=3; h,r-ind=1,1
        [3,3]((3,20,41),(2,13,26),(2,13,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,15),(3,20,41),(2,13,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,15),(2,14,29),(3,20,41)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,29),(3,20,41),(2,13,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,15),(1,7,16),(2,13,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,19),(1,7,15),(1,7,16)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,19),(1,8,17),(1,7,15),(2,14,29)); lvl=3; h,r-ind=1,1
        [3,3]((3,22,47),(1,7,15),(2,14,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,17),(3,22,47),(2,14,29)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [4,3]((1,8,19),(1,8,18),(3,22,47),(1,7,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,8,18),(3,22,47),(2,15,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,15),(3,22,47),(2,15,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,19),(1,7,15),(2,15,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,19),(1,8,18),(2,15,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,17),(1,8,18),(3,22,47)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,8,15),(1,7,14),(5,34,66)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,8,17),(2,14,29),(1,8,15),(1,7,14)); lvl=3; h,r-ind=1,1
        [3,3]((2,14,29),(1,7,14),(3,22,45)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,15),(1,8,16),(1,7,14),(3,22,45)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,8,16),(3,22,45),(2,15,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,14),(3,22,45),(2,15,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,15),(1,8,16),(2,15,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,14),(1,8,15),(2,15,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,17),(1,8,16),(3,22,45)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [3,3]((1,8,17),(2,14,29),(3,22,45)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,6,12),(1,6,11),(2,11,22)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,16,19),(1,8,11)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,8,19),(0,1,0),(1,8,11)); lvl=1; h,r-ind=8,8; optimized-h
  [3,3]((1,8,19),(1,0,0),(1,3,7)); lvl=1; h,r-ind=1,1
```

19.19 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,9,19)); lvl=0; h,r-ind=19,361
  [4,3]((0,1,0),(2,18,19),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((1,5,5),(2,10,11),(2,2,3),(1,1,1)); lvl=2; h,r-ind=4,1; alert-h-inc
      [4,3]((1,3,3),(1,1,1),(2,6,7),(2,2,3)); lvl=3; h,r-ind=2,1
        [4,3]((1,2,2),(2,4,5),(1,1,1),(2,2,3)); lvl=4; h,r-ind=1,1
          [4,3]((1,1,1),(4,6,7),(2,2,3),(2,3,4)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,4,5),(2,3,4),(4,6,7)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,1),(3,4,5),(4,6,7)); lvl=6; h,r-ind=1,1
            [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=6; h,r-ind=1,1
          [4,3]((2,4,5),(1,2,2),(4,6,7),(2,3,4)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,5,6),(1,2,2),(4,6,7)); lvl=6; h,r-ind=1,1
            [3,3]((3,5,6),(2,3,4),(4,6,7)); lvl=6; h,r-ind=1,1
            [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=6; h,r-ind=1,1
            [3,3]((2,4,5),(3,5,6),(1,2,2)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,2),(1,1,1),(4,6,7)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,3),(1,2,2),(2,6,7),(2,4,5)); lvl=4; h,r-ind=1,1
          [4,3]((1,2,2),(4,10,11),(2,4,5),(2,5,6)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,7,8),(2,5,6),(4,10,11)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,2),(3,7,8),(4,10,11)); lvl=6; h,r-ind=1,1
            [3,3]((2,4,5),(3,7,8),(2,5,6)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,2),(2,4,5),(3,7,8)); lvl=6; h,r-ind=1,1
          [4,3]((2,6,7),(1,3,3),(4,10,11),(2,5,6)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,8,9),(1,3,3),(4,10,11)); lvl=6; h,r-ind=1,1
            [3,3]((3,8,9),(2,5,6),(4,10,11)); lvl=6; h,r-ind=1,1
            [3,3]((2,6,7),(3,8,9),(2,5,6)); lvl=6; h,r-ind=1,1
            [3,3]((2,6,7),(3,8,9),(1,3,3)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,3),(1,2,2),(4,10,11)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,5),(1,3,3),(2,10,11),(2,6,7)); lvl=3; h,r-ind=2,1
        [4,3]((1,4,4),(2,8,9),(1,3,3),(2,6,7)); lvl=4; h,r-ind=1,1
          [4,3]((1,3,3),(4,14,15),(2,6,7),(2,7,8)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((4,14,15),(3,10,11),(2,7,8)); lvl=6; h,r-ind=1,1
            [3,3]((2,6,7),(3,10,11),(2,7,8)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,3),(4,14,15),(3,10,11)); lvl=6; h,r-ind=1,1
            [3,3]((2,6,7),(1,3,3),(3,10,11)); lvl=6; h,r-ind=1,1
          [4,3]((2,8,9),(1,4,4),(4,14,15),(2,7,8)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,11,12),(1,4,4),(4,14,15)); lvl=6; h,r-ind=1,1
            [3,3]((3,11,12),(2,7,8),(4,14,15)); lvl=6; h,r-ind=1,1
            [3,3]((2,8,9),(3,11,12),(2,7,8)); lvl=6; h,r-ind=1,1
            [3,3]((2,8,9),(3,11,12),(1,4,4)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,4),(1,3,3),(4,14,15)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,5),(1,4,4),(2,10,11),(2,8,9)); lvl=4; h,r-ind=1,1
          [4,3]((1,4,4),(4,18,19),(2,8,9),(2,9,10)); lvl=5; h,r-ind=1,2; alert-r-inc
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            [3,3]((4,18,19),(2,9,10),(3,13,14)); lvl=6; h,r-ind=1,1
            [3,3]((2,8,9),(2,9,10),(3,13,14)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,4),(2,8,9),(3,13,14)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,4),(4,18,19),(3,13,14)); lvl=6; h,r-ind=1,1
          [4,3]((2,10,11),(1,5,5),(4,18,19),(2,9,10)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,14,15),(1,5,5),(4,18,19)); lvl=6; h,r-ind=1,1
            [3,3]((3,14,15),(2,9,10),(4,18,19)); lvl=6; h,r-ind=1,1
            [3,3]((2,10,11),(3,14,15),(2,9,10)); lvl=6; h,r-ind=1,1
            [3,3]((2,10,11),(3,14,15),(1,5,5)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,5),(1,4,4),(4,18,19)); lvl=5; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,1,1)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,18,19),(1,5,5),(2,10,11),(1,9,9)); lvl=2; h,r-ind=4,1; alert-h-inc
      [4,3]((2,14,15),(1,7,7),(2,10,11),(1,5,5)); lvl=3; h,r-ind=2,1
        [4,3]((2,12,13),(1,6,6),(2,10,11),(1,5,5)); lvl=4; h,r-ind=1,1
          [4,3]((2,10,11),(2,11,12),(1,5,5),(4,22,23)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,11,12),(3,16,17),(4,22,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,5),(3,16,17),(4,22,23)); lvl=6; h,r-ind=1,1
            [3,3]((2,10,11),(2,11,12),(3,16,17)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,5),(2,10,11),(3,16,17)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,6),(1,5,5),(4,22,23)); lvl=5; h,r-ind=1,1
          [4,3]((1,6,6),(2,12,13),(2,11,12),(4,22,23)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,12,13),(3,17,18),(2,11,12)); lvl=6; h,r-ind=1,1
            [3,3]((4,22,23),(3,17,18),(2,11,12)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,6),(4,22,23),(3,17,18)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,6),(2,12,13),(3,17,18)); lvl=6; h,r-ind=1,1
        [4,3]((2,14,15),(2,12,13),(1,7,7),(1,6,6)); lvl=4; h,r-ind=1,1
          [4,3]((2,12,13),(2,13,14),(1,6,6),(4,26,27)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,13,14),(3,19,20),(4,26,27)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,6),(3,19,20),(4,26,27)); lvl=6; h,r-ind=1,1
            [3,3]((2,12,13),(2,13,14),(3,19,20)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,6),(2,12,13),(3,19,20)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,7),(1,6,6),(4,26,27)); lvl=5; h,r-ind=1,1
          [4,3]((1,7,7),(2,14,15),(2,13,14),(4,26,27)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,14,15),(3,20,21),(2,13,14)); lvl=6; h,r-ind=1,1
            [3,3]((4,26,27),(3,20,21),(2,13,14)); lvl=6; h,r-ind=1,1
            [3,3]((1,7,7),(4,26,27),(3,20,21)); lvl=6; h,r-ind=1,1
            [3,3]((1,7,7),(2,14,15),(3,20,21)); lvl=6; h,r-ind=1,1
      [4,3]((2,18,19),(2,14,15),(1,9,9),(1,7,7)); lvl=3; h,r-ind=2,1
        [4,3]((2,16,17),(1,8,8),(2,14,15),(1,7,7)); lvl=4; h,r-ind=1,1
          [4,3]((2,14,15),(2,15,16),(1,7,7),(4,30,31)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,15,16),(3,22,23),(4,30,31)); lvl=6; h,r-ind=1,1
            [3,3]((1,7,7),(3,22,23),(4,30,31)); lvl=6; h,r-ind=1,1
            [3,3]((2,14,15),(2,15,16),(3,22,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,7,7),(2,14,15),(3,22,23)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,8),(1,7,7),(4,30,31)); lvl=5; h,r-ind=1,1
          [4,3]((1,8,8),(2,16,17),(2,15,16),(4,30,31)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,16,17),(3,23,24),(2,15,16)); lvl=6; h,r-ind=1,1
            [3,3]((4,30,31),(3,23,24),(2,15,16)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,8),(4,30,31),(3,23,24)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,8),(2,16,17),(3,23,24)); lvl=6; h,r-ind=1,1
        [4,3]((2,18,19),(2,16,17),(1,9,9),(1,8,8)); lvl=4; h,r-ind=1,1
          [4,3]((2,16,17),(2,17,18),(1,8,8),(4,34,35)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,17,18),(3,25,26),(4,34,35)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,8),(3,25,26),(4,34,35)); lvl=6; h,r-ind=1,1
            [3,3]((2,16,17),(2,17,18),(3,25,26)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,8),(2,16,17),(3,25,26)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,9),(1,8,8),(4,34,35)); lvl=5; h,r-ind=1,1
          [4,3]((1,9,9),(2,18,19),(2,17,18),(4,34,35)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,18,19),(3,26,27),(2,17,18)); lvl=6; h,r-ind=1,1
            [3,3]((4,34,35),(3,26,27),(2,17,18)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,9),(4,34,35),(3,26,27)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,9),(2,18,19),(3,26,27)); lvl=6; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,9,9)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,18,19),(1,9,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,9,19),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((1,5,10),(1,1,2),(1,9,10),(2,18,19),(2,2,3)); lvl=1; h,r-ind=4,1
    [4,3]((1,2,3),(1,5,6),(2,10,15),(2,7,12)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc
      [4,3]((4,17,27),(1,4,6),(2,10,15),(1,5,7)); lvl=3; h,r-ind=1,1
        [4,3]((2,9,14),(4,18,27),(1,5,7),(2,10,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,21),(1,5,7),(4,18,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,14),(3,14,21),(4,18,27)); lvl=5; h,r-ind=1,1
          [3,3]((3,14,21),(2,10,15),(1,5,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,14),(3,14,21),(2,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(2,9,14),(4,18,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(4,17,27),(2,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(4,18,27),(1,5,7)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,9),(1,4,6),(1,5,6),(1,5,7)); lvl=3; h,r-ind=1,1
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      [4,3]((1,4,5),(3,13,18),(1,5,6),(1,5,7)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,12),(1,5,6),(1,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,18),(2,9,12),(1,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(3,13,18),(2,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(2,9,12),(1,5,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(3,13,18),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,4,5),(3,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,9),(1,4,5)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,5),(1,2,3),(2,7,9),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,3,4),(2,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,15),(1,4,6),(1,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,5),(3,10,15),(1,2,3),(1,3,4)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,4),(3,10,15),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(3,10,15),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(1,2,3),(2,6,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(3,10,15),(1,4,6)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,5),(4,17,27),(2,7,12),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,8,13),(4,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(4,15,24),(2,8,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,5),(4,15,24),(2,7,12),(2,8,13)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,18),(4,15,24),(2,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,12),(3,11,18),(2,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(2,7,12),(3,11,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(3,11,18),(4,15,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(1,3,5),(4,15,24)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,10),(1,3,6),(2,10,15),(2,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,7),(1,3,6),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(4,17,27),(2,7,12)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,4,7),(1,5,8),(2,10,15),(4,17,27)); lvl=3; h,r-ind=1,1
      [4,3]((4,18,29),(2,9,14),(1,5,8),(2,10,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,8),(2,10,15),(3,14,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,14),(2,10,15),(3,14,22)); lvl=5; h,r-ind=1,1
        [3,3]((4,18,29),(1,5,8),(3,14,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,14),(4,18,29),(3,14,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,7),(4,18,29),(2,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,9,14),(4,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(4,18,29),(1,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(1,5,8),(2,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(1,4,7),(1,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,8),(1,5,10),(1,4,7),(2,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(1,5,9),(3,13,24)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,8),(1,5,10),(1,5,9),(3,13,24)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,10),(2,9,17),(1,5,9)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,24),(2,9,17),(1,5,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(3,13,24),(2,9,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(1,5,10),(2,9,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,7),(1,4,8),(3,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,10,17),(1,5,9)); lvl=4; h,r-ind=1,1
  [4,3]((1,1,2),(1,3,6),(1,2,3),(2,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,6),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,5),(1,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(1,2,4),(1,2,3),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,5),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,2),(2,4,7)); lvl=4; h,r-ind=1,1
  [3,3]((1,1,2),(1,2,3),(2,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(1,5,6),(2,10,11),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(2,7,9),(2,10,11),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,6,7),(2,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,8,9),(2,6,7)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,4,5),(1,5,6),(2,10,11),(2,8,9)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,6),(4,18,21),(2,10,11),(2,9,10)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,18,21),(3,14,16),(2,9,10)); lvl=6; h,r-ind=1,1
          [3,3]((2,10,11),(3,14,16),(2,9,10)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,6),(4,18,21),(3,14,16)); lvl=6; h,r-ind=1,1
          [3,3]((2,10,11),(1,5,6),(3,14,16)); lvl=6; h,r-ind=1,1
        [4,3]((2,8,9),(1,4,5),(4,18,21),(2,9,10)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,13,15),(1,4,5),(4,18,21)); lvl=6; h,r-ind=1,1
          [3,3]((3,13,15),(2,9,10),(4,18,21)); lvl=6; h,r-ind=1,1
          [3,3]((2,8,9),(3,13,15),(2,9,10)); lvl=6; h,r-ind=1,1
          [3,3]((2,8,9),(3,13,15),(1,4,5)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(1,5,6),(4,18,21)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,3),(2,2,3),(2,7,9),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,4,5),(2,6,7)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,3,4),(2,7,9),(2,6,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(1,3,4),(2,2,3),(2,4,5)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,4),(4,8,11),(2,4,5),(2,3,4)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,8,11),(3,6,8),(2,3,4)); lvl=6; h,r-ind=1,1
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          [3,3]((2,4,5),(3,6,8),(2,3,4)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(2,4,5),(3,6,8)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(4,8,11),(3,6,8)); lvl=6; h,r-ind=1,1
        [4,3]((2,2,3),(1,2,3),(4,8,11),(2,3,4)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((1,2,3),(4,8,11),(3,5,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,4),(4,8,11),(3,5,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,2,3),(1,2,3),(3,5,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,4),(2,2,3),(3,5,7)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(4,8,11)); lvl=5; h,r-ind=1,1
[4,3]((2,13,18),(1,5,6),(1,8,9),(2,10,15)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc
  [4,3]((1,6,8),(1,5,7),(1,5,6),(2,13,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,7),(1,5,7),(1,5,6),(3,17,22)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,6),(2,11,14),(1,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((3,17,22),(2,11,14),(1,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(3,17,22),(2,11,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(1,5,6),(2,11,14)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,8),(1,6,7),(3,17,22)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,8),(1,6,7),(2,13,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,8),(1,5,7),(3,17,22)); lvl=4; h,r-ind=1,1
  [4,3]((1,8,9),(1,7,9),(1,6,8),(2,13,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(1,7,9),(3,20,25)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,9),(1,7,8),(1,7,9),(3,20,25)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,14,17),(1,7,8),(3,20,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(2,14,17),(3,20,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,9),(2,14,17),(1,7,8)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(1,8,9),(2,14,17)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,8),(1,6,8),(3,20,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,15),(1,7,8),(1,6,8)); lvl=4; h,r-ind=1,1
  [4,3]((2,13,18),(4,23,33),(1,7,9),(1,6,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(2,12,17),(4,25,34)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,9),(2,13,18),(2,12,17),(4,25,34)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,13,18),(3,19,26),(2,12,17)); lvl=5; h,r-ind=1,1
      [3,3]((4,25,34),(3,19,26),(2,12,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(2,13,18),(3,19,26)); lvl=5; h,r-ind=1,1
      [3,3]((4,25,34),(1,7,9),(3,19,26)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,9),(1,6,8),(4,25,34)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,8),(4,23,33),(2,12,17)); lvl=4; h,r-ind=1,1
  [4,3]((2,10,15),(4,23,33),(1,6,8),(1,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,16),(4,23,33),(1,6,8)); lvl=4; h,r-ind=1,1
    [3,3]((4,22,31),(2,11,16),(1,6,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(4,22,31),(1,6,8)); lvl=4; h,r-ind=1,1
    [4,3]((2,10,15),(1,5,7),(4,22,31),(2,11,16)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,16,23),(1,5,7),(4,22,31)); lvl=5; h,r-ind=1,1
      [3,3]((3,16,23),(2,11,16),(4,22,31)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,15),(3,16,23),(2,11,16)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,15),(3,16,23),(1,5,7)); lvl=5; h,r-ind=1,1
[4,3]((1,5,10),(1,7,10),(2,13,18),(2,10,15)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,9),(1,7,10),(2,13,18)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,9),(4,23,33),(2,13,18)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,10,15),(1,5,8),(1,6,9),(4,23,33)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(4,22,33),(1,6,9)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,16),(4,22,33),(1,6,9)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,16),(4,23,33),(1,6,9)); lvl=4; h,r-ind=1,1
    [4,3]((2,10,15),(2,11,16),(1,5,8),(4,22,33)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,16,24),(2,11,16),(4,22,33)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(3,16,24),(4,22,33)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,15),(1,5,8),(3,16,24)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,15),(3,16,24),(2,11,16)); lvl=5; h,r-ind=1,1
  [3,3]((2,10,17),(1,5,8),(1,6,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,10),(1,6,9),(1,7,10)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,10),(1,6,10),(2,10,17),(1,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,10),(1,6,9),(3,17,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,9),(1,6,9),(3,17,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,9),(2,10,17),(1,6,9)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,10),(1,5,9),(1,6,10),(3,17,28)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,9),(2,11,19),(3,17,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(2,11,19),(3,17,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(1,6,10),(2,11,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(1,5,9),(2,11,19)); lvl=5; h,r-ind=1,1
[4,3]((1,9,10),(1,7,10),(2,13,18),(1,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,7,10),(1,7,9),(2,13,18)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,10),(1,8,10),(1,7,9)); lvl=3; h,r-ind=1,1
  [4,3]((1,9,10),(1,8,9),(1,8,10),(1,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,9),(1,7,9),(2,16,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,10),(1,7,9),(2,16,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,10),(1,8,10),(2,16,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,10),(1,8,9),(2,16,19)); lvl=4; h,r-ind=1,1
[4,3]((1,5,6),(2,10,11),(2,18,19),(1,8,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,8,9),(2,13,15),(2,18,19),(2,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,8),(2,13,15),(2,14,15)); lvl=4; h,r-ind=1,1
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      [3,3]((1,7,8),(2,16,17),(2,14,15)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,8,9),(1,7,8),(2,18,19),(2,16,17)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,8),(4,32,35),(2,17,18),(2,16,17)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,17,18),(4,32,35),(3,24,26)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,8),(4,32,35),(3,24,26)); lvl=6; h,r-ind=1,1
          [3,3]((2,16,17),(2,17,18),(3,24,26)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,8),(2,16,17),(3,24,26)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,9),(1,7,8),(4,32,35)); lvl=5; h,r-ind=1,1
        [4,3]((2,18,19),(1,8,9),(4,32,35),(2,17,18)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,25,27),(1,8,9),(4,32,35)); lvl=6; h,r-ind=1,1
          [3,3]((2,17,18),(3,25,27),(4,32,35)); lvl=6; h,r-ind=1,1
          [3,3]((2,18,19),(3,25,27),(1,8,9)); lvl=6; h,r-ind=1,1
          [3,3]((2,17,18),(2,18,19),(3,25,27)); lvl=6; h,r-ind=1,1
    [4,3]((1,5,6),(2,13,15),(2,10,11),(2,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(2,13,15),(2,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,12,13),(2,14,15)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,6,7),(1,5,6),(2,10,11),(2,12,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,6),(4,22,25),(2,11,12),(2,10,11)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,16,18),(2,11,12),(4,22,25)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,6),(3,16,18),(4,22,25)); lvl=6; h,r-ind=1,1
          [3,3]((2,10,11),(3,16,18),(2,11,12)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,6),(2,10,11),(3,16,18)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(1,5,6),(4,22,25)); lvl=5; h,r-ind=1,1
        [4,3]((2,12,13),(1,6,7),(4,22,25),(2,11,12)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,17,19),(4,22,25),(1,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,12,13),(3,17,19),(1,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,12),(2,12,13),(3,17,19)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,12),(3,17,19),(4,22,25)); lvl=6; h,r-ind=1,1
  [3,3]((1,9,10),(2,18,19),(1,8,9)); lvl=2; h,r-ind=1,1
[3,3]((1,9,19),(1,5,10),(1,9,10)); lvl=1; h,r-ind=36,36; alert-h-inc
  [4,3]((2,18,29),(2,14,25),(1,9,19),(1,7,14)); lvl=2; h,r-ind=6,2
    [4,3]((1,8,14),(2,16,27),(1,7,13),(2,14,25)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,13),(4,30,53),(2,15,26),(2,14,25)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,22,39),(4,30,53),(2,15,26)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,25),(3,22,39),(2,15,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,13),(2,14,25),(3,22,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,13),(3,22,39),(4,30,53)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,14),(1,7,13),(4,30,53)); lvl=4; h,r-ind=1,1
      [4,3]((2,16,27),(1,8,14),(4,30,53),(2,15,26)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,23,40),(1,8,14),(4,30,53)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,26),(3,23,40),(4,30,53)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,27),(3,23,40),(1,8,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,26),(2,16,27),(3,23,40)); lvl=5; h,r-ind=1,1
    [4,3]((2,18,29),(1,9,15),(1,8,14),(2,16,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,14),(1,9,15),(4,34,57)); lvl=4; h,r-ind=1,1
      [4,3]((2,18,29),(2,17,28),(1,9,15),(4,34,57)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,26,43),(2,17,28),(4,34,57)); lvl=5; h,r-ind=1,1
        [3,3]((3,26,43),(1,9,15),(4,34,57)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,29),(3,26,43),(1,9,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,29),(3,26,43),(2,17,28)); lvl=5; h,r-ind=1,1
      [4,3]((2,16,27),(2,17,28),(1,8,14),(4,34,57)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,17,28),(3,25,42),(4,34,57)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(3,25,42),(4,34,57)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,27),(1,8,14),(3,25,42)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,27),(2,17,28),(3,25,42)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,14),(1,8,15),(1,7,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,15),(1,8,16),(1,7,14),(1,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,16),(1,7,14),(2,15,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,13),(1,7,14),(2,15,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,15),(1,8,16),(2,15,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,13),(1,8,15),(2,15,29)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,19),(1,8,16),(1,7,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,15),(2,18,33),(1,9,19),(1,8,16)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,15),(4,33,64),(1,9,17),(2,18,35)); lvl=4; h,r-ind=1,1
        [4,3]((2,17,33),(4,34,65),(1,9,17),(2,18,35)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,34,65),(1,9,17),(3,26,50)); lvl=6; h,r-ind=1,1
          [3,3]((2,18,35),(1,9,17),(3,26,50)); lvl=6; h,r-ind=1,1
          [3,3]((2,17,33),(4,34,65),(3,26,50)); lvl=6; h,r-ind=1,1
          [3,3]((2,18,35),(2,17,33),(3,26,50)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,15),(2,17,33),(4,34,65)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,15),(2,17,33),(4,33,64)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,15),(4,34,65),(1,9,17)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,16),(4,33,64),(1,9,19),(2,18,35)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,8,16),(5,42,83),(1,9,18),(1,9,19)); lvl=5; h,r-ind=1,3
          [3,3]((2,17,34),(1,9,18),(5,42,83)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,16),(2,17,34),(5,42,83)); lvl=6; h,r-ind=1,1
          [3,3]((2,17,34),(1,9,19),(1,9,18)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,16),(2,17,34),(1,9,19)); lvl=6; h,r-ind=1,1
        [3,3]((5,42,83),(2,17,33),(1,9,18)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,17,33),(2,18,35),(1,9,18)); lvl=5; h,r-ind=1,1
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        [4,3]((1,8,16),(5,42,83),(2,17,33),(4,33,64)); lvl=5; h,r-ind=1,3
          [3,3]((2,17,33),(3,25,49),(5,42,83)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,16),(3,25,49),(5,42,83)); lvl=6; h,r-ind=1,1
          [3,3]((4,33,64),(2,17,33),(3,25,49)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,16),(4,33,64),(3,25,49)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,15),(1,8,16),(4,33,64)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,15),(2,18,33),(1,9,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,9,15),(1,8,14),(1,8,15),(2,18,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,14),(1,8,15),(3,25,45)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,16),(1,8,15),(3,25,45)); lvl=4; h,r-ind=1,1
      [3,3]((2,18,33),(1,9,16),(1,8,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,15),(1,9,16),(1,8,14),(3,25,45)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,9,16),(3,25,45),(2,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(3,25,45),(2,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,15),(1,9,16),(2,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(1,9,15),(2,17,30)); lvl=5; h,r-ind=1,1
[3,3]((1,6,12),(1,9,19),(1,7,14)); lvl=2; h,r-ind=1,1
[3,3]((1,5,10),(1,6,12),(1,9,19)); lvl=2; h,r-ind=1,1
[4,3]((1,6,12),(2,14,25),(2,12,23),(1,7,14)); lvl=2; h,r-ind=1,1
  [4,3]((1,7,13),(5,32,61),(2,13,24),(3,19,36)); lvl=3; h,r-ind=1,1
    [3,3]((5,32,61),(4,26,49),(3,19,36)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,24),(4,26,49),(3,19,36)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,13),(2,13,24),(4,26,49)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,13),(5,32,61),(4,26,49)); lvl=4; h,r-ind=1,1
  [3,3]((2,12,23),(2,13,24),(3,19,36)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,12),(5,32,61),(2,12,23),(3,19,36)); lvl=3; h,r-ind=1,1
    [3,3]((4,25,48),(3,19,36),(5,32,61)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,12),(4,25,48),(5,32,61)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,23),(1,6,12),(4,25,48)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,23),(4,25,48),(3,19,36)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,12),(1,7,14),(1,7,13),(5,32,61)); lvl=3; h,r-ind=1,3; alert-r-inc
    [3,3]((1,7,13),(1,7,14),(2,13,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,12),(1,7,14),(2,13,25)); lvl=4; h,r-ind=1,1
    [3,3]((5,32,61),(1,7,13),(2,13,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,12),(5,32,61),(2,13,25)); lvl=4; h,r-ind=1,1
  [3,3]((1,7,13),(2,14,25),(2,13,24)); lvl=3; h,r-ind=1,1
[3,3]((1,5,10),(1,6,12),(2,12,23)); lvl=2; h,r-ind=1,1
[4,3]((1,5,10),(1,7,10),(2,14,25),(2,12,23)); lvl=2; h,r-ind=2,1
  [4,3]((2,13,24),(1,6,11),(1,7,12),(2,14,25)); lvl=3; h,r-ind=1,1
    [3,3]((3,20,36),(1,7,12),(1,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,24),(3,20,36),(1,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((3,20,36),(2,14,25),(1,7,12)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,24),(3,20,36),(2,14,25)); lvl=4; h,r-ind=1,1
  [3,3]((2,12,23),(2,13,24),(1,6,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,10),(2,12,23),(1,6,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,11),(2,14,23),(1,7,12)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,10),(1,6,11),(1,7,10),(2,14,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,11),(1,7,11),(3,19,32)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,10),(1,7,10),(1,7,11),(3,19,32)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,13,21),(1,7,10),(1,7,11)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,32),(2,13,21),(1,7,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(3,19,32),(2,13,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(2,13,21),(1,7,10)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,11),(1,6,10),(3,19,32)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,11),(2,14,23),(1,7,11)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,10),(1,6,10),(1,6,11)); lvl=3; h,r-ind=1,1
[4,3]((1,9,10),(2,18,29),(1,7,10),(2,14,25)); lvl=2; h,r-ind=2,1
  [4,3]((1,8,13),(2,16,27),(2,14,25),(1,7,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,12),(4,30,51),(2,14,25),(2,15,26)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,22,38),(4,30,51),(2,15,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,14,25),(3,22,38),(2,15,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,12),(2,14,25),(3,22,38)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,12),(3,22,38),(4,30,51)); lvl=5; h,r-ind=1,1
    [4,3]((1,8,13),(4,30,51),(2,16,27),(2,15,26)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,23,39),(4,30,51),(2,15,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,16,27),(3,23,39),(2,15,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,13),(2,16,27),(3,23,39)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,13),(3,23,39),(4,30,51)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,13),(1,7,12),(4,30,51)); lvl=4; h,r-ind=1,1
  [4,3]((2,14,23),(1,8,13),(1,8,12),(1,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,12),(2,15,24),(1,8,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,12),(2,15,24),(1,8,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,12),(2,14,23),(2,15,24)); lvl=4; h,r-ind=1,1
    [3,3]((2,14,23),(1,8,12),(2,15,24)); lvl=4; h,r-ind=1,1
  [4,3]((1,8,10),(1,7,10),(2,14,23),(1,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,12),(2,14,23),(1,7,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,12),(1,8,11),(1,7,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,10),(1,8,11),(1,7,10),(1,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,10),(1,7,11),(2,15,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,11),(1,7,11),(2,15,21)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((1,8,10),(1,7,10),(2,15,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,11),(1,8,10),(2,15,21)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,14),(2,18,25),(1,8,13),(1,8,12)); lvl=3; h,r-ind=1,1
        [3,3]((1,8,13),(1,8,12),(3,25,38)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,13),(1,8,12),(3,25,38)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,13),(2,18,25),(1,8,12)); lvl=4; h,r-ind=1,1
        [4,3]((1,9,14),(1,9,13),(1,8,13),(3,25,38)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,17,26),(1,9,13),(3,25,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,13),(2,17,26),(3,25,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,14),(2,17,26),(1,9,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,13),(1,9,14),(2,17,26)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,10),(1,9,10),(2,18,25),(1,8,12)); lvl=3; h,r-ind=1,1
        [4,3]((1,8,11),(1,8,12),(1,9,12),(2,18,23)); lvl=4; h,r-ind=1,1
          [3,3]((2,17,23),(1,8,12),(1,9,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,18,23),(2,17,23),(1,9,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,11),(2,18,23),(2,17,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,11),(2,17,23),(1,8,12)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,10),(1,8,11),(1,9,10),(2,18,23)); lvl=4; h,r-ind=1,1
          [3,3]((1,8,11),(1,9,11),(3,25,32)); lvl=5; h,r-ind=1,1
          [4,3]((1,8,10),(1,9,10),(1,9,11),(3,25,32)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,17,21),(1,9,11),(1,9,10)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,10),(2,17,21),(1,9,10)); lvl=6; h,r-ind=1,1
            [3,3]((3,25,32),(2,17,21),(1,9,11)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,10),(3,25,32),(2,17,21)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,11),(1,8,10),(3,25,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,11),(2,18,23),(1,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,12),(2,18,25),(1,9,12)); lvl=4; h,r-ind=1,1
      [4,3]((2,18,29),(1,9,14),(1,8,13),(2,16,27)); lvl=3; h,r-ind=1,1
        [3,3]((1,9,14),(1,8,13),(4,34,55)); lvl=4; h,r-ind=1,1
        [4,3]((2,16,27),(2,17,28),(1,8,13),(4,34,55)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,25,41),(2,17,28),(4,34,55)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,13),(3,25,41),(4,34,55)); lvl=5; h,r-ind=1,1
          [3,3]((2,16,27),(3,25,41),(2,17,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,13),(2,16,27),(3,25,41)); lvl=5; h,r-ind=1,1
        [4,3]((2,18,29),(2,17,28),(1,9,14),(4,34,55)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,26,42),(2,17,28),(4,34,55)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,14),(3,26,42),(4,34,55)); lvl=5; h,r-ind=1,1
          [3,3]((2,18,29),(3,26,42),(2,17,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,14),(2,18,29),(3,26,42)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(1,9,19),(1,9,10)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((1,9,19),(1,5,10),(1,1,2)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((0,1,0),(1,9,10),(2,18,19)); lvl=1; h,r-ind=1,1
```

19.20 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,2,19)); lvl=0; h,r-ind=19,361
  [3,3]((1,1,9),(1,0,0),(1,1,5)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,1,5)); lvl=1; h,r-ind=5,25; optimized-h
  [3,3]((0,1,0),(1,1,9),(1,1,5)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((2,2,19),(0,1,0),(1,1,9)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,19),(1,1,9),(1,0,0)); lvl=1; h,r-ind=1,1
```

19.21 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,19)); lvl=0; h,r-ind=19,361
  [3,3]((3,4,23),(3,4,24),(1,1,6)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,19),(3,4,24),(1,1,6)); lvl=1; h,r-ind=1,1
  [5,3]((2,3,16),(4,6,19),(2,2,7),(3,4,23),(1,1,6)); lvl=1; h,r-ind=1,1
    [4,3]((3,4,22),(6,8,35),(2,2,9),(1,1,6)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((1,1,5),(2,2,9),(4,5,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,18),(1,1,5),(4,5,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,18),(6,8,35),(4,5,22)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,39),(3,4,18),(1,1,5)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((1,1,6),(3,4,22),(6,8,39),(1,1,5)); lvl=3; h,r-ind=1,1
        [4,3]((1,1,5),(6,7,37),(3,4,20),(6,8,41)); lvl=4; h,r-ind=1,1
          [4,3]((4,5,26),(8,10,51),(3,4,20),(6,8,41)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((7,9,46),(8,10,51),(3,4,20)); lvl=6; h,r-ind=1,1
            [3,3]((6,8,41),(7,9,46),(3,4,20)); lvl=6; h,r-ind=1,1
            [3,3]((4,5,26),(6,8,41),(7,9,46)); lvl=6; h,r-ind=1,1
            [3,3]((4,5,26),(7,9,46),(8,10,51)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,5),(4,5,26),(8,10,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(4,5,26),(6,7,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(8,10,51),(3,4,20)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,6),(6,7,37),(3,4,22),(6,8,41)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
```

```
        [3,3]((4,5,26),(3,4,21),(9,11,59)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,1,6),(3,4,22),(3,4,21),(9,11,59)); lvl=5; h,r-ind=1,3
          [3,3]((3,4,21),(4,5,27),(3,4,22)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,6),(4,5,27),(3,4,22)); lvl=6; h,r-ind=1,1
          [3,3]((9,11,59),(3,4,21),(4,5,27)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,6),(9,11,59),(4,5,27)); lvl=6; h,r-ind=1,1
        [4,3]((1,1,6),(6,7,37),(4,5,26),(9,11,59)); lvl=5; h,r-ind=1,3
          [3,3]((5,6,32),(4,5,26),(6,7,37)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,6),(5,6,32),(6,7,37)); lvl=6; h,r-ind=1,1
          [3,3]((9,11,59),(5,6,32),(4,5,26)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,6),(9,11,59),(5,6,32)); lvl=6; h,r-ind=1,1
      [3,3]((4,5,26),(6,8,41),(3,4,21)); lvl=5; h,r-ind=1,1
    [3,3]((1,1,5),(6,8,39),(3,4,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,6),(1,1,5),(6,7,37)); lvl=4; h,r-ind=1,1
[3,3]((3,4,22),(3,4,23),(1,1,6)); lvl=2; h,r-ind=1,1
[3,3]((2,3,16),(3,4,22),(3,4,23)); lvl=2; h,r-ind=1,1
[5,3]((2,3,10),(6,8,35),(4,6,25),(1,1,4),(2,2,9)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,17),(5,6,25),(2,2,9),(4,5,22)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,9),(11,13,56),(5,6,26)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,17),(4,5,21),(11,13,56),(5,6,26)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,47),(11,13,56),(4,5,21)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,17),(9,11,47),(4,5,21)); lvl=5; h,r-ind=1,1
      [3,3]((9,11,47),(5,6,26),(11,13,56)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,17),(9,11,47),(5,6,26)); lvl=5; h,r-ind=1,1
    [3,3]((4,5,22),(2,2,9),(5,6,26)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,17),(4,5,22),(5,6,26)); lvl=4; h,r-ind=1,1
    [4,3]((5,6,25),(4,5,21),(2,2,9),(11,13,56)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,21),(6,7,30),(11,13,56)); lvl=5; h,r-ind=1,1
      [3,3]((2,2,9),(6,7,30),(11,13,56)); lvl=5; h,r-ind=1,1
      [3,3]((5,6,25),(2,2,9),(6,7,30)); lvl=5; h,r-ind=1,1
      [3,3]((5,6,25),(4,5,21),(6,7,30)); lvl=5; h,r-ind=1,1
  [4,3]((3,4,17),(6,8,35),(5,7,30),(4,5,22)); lvl=3; h,r-ind=1,1
    [3,3]((9,12,52),(6,8,35),(5,7,30)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,17),(9,12,52),(5,7,30)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,22),(9,12,52),(6,8,35)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,17),(4,5,22),(9,12,52)); lvl=4; h,r-ind=1,1
  [4,3]((4,6,25),(2,3,12),(3,4,17),(5,7,30)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,17),(2,3,12),(7,10,42)); lvl=4; h,r-ind=1,1
    [3,3]((4,6,25),(2,3,12),(7,10,42)); lvl=4; h,r-ind=1,1
    [3,3]((5,7,30),(4,6,25),(7,10,42)); lvl=4; h,r-ind=1,1
    [3,3]((5,7,30),(3,4,17),(7,10,42)); lvl=4; h,r-ind=1,1
  [4,3]((4,6,23),(2,3,12),(3,4,17),(5,6,25)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,12),(3,4,17),(6,8,33),(11,15,61)); lvl=4; h,r-ind=1,1
      [3,3]((8,11,45),(3,4,17),(6,8,33)); lvl=5; h,r-ind=1,1
      [3,3]((11,15,61),(8,11,45),(6,8,33)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,12),(11,15,61),(8,11,45)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,12),(8,11,45),(3,4,17)); lvl=5; h,r-ind=1,1
    [4,3]((3,4,16),(4,5,21),(6,8,33),(11,15,61)); lvl=4; h,r-ind=1,1
      [3,3]((9,12,49),(6,8,33),(4,5,21)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,16),(9,12,49),(4,5,21)); lvl=5; h,r-ind=1,1
      [3,3]((9,12,49),(11,15,61),(6,8,33)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,16),(9,12,49),(11,15,61)); lvl=5; h,r-ind=1,1
    [3,3]((3,4,16),(5,6,25),(4,5,21)); lvl=4; h,r-ind=1,1
    [4,3]((4,6,23),(3,4,16),(2,3,12),(11,15,61)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((3,4,16),(11,15,61),(5,7,28)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,12),(11,15,61),(5,7,28)); lvl=5; h,r-ind=1,1
      [3,3]((4,6,23),(3,4,16),(5,7,28)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,12),(4,6,23),(5,7,28)); lvl=5; h,r-ind=1,1
    [3,3]((4,5,21),(3,4,17),(6,8,33)); lvl=4; h,r-ind=1,1
  [3,3]((1,1,4),(5,6,25),(2,2,9)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,10),(4,6,23),(1,1,4),(5,6,25)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((1,1,4),(3,4,16),(5,6,25),(7,9,35)); lvl=4; h,r-ind=1,3
      [3,3]((5,6,25),(4,5,20),(3,4,16)); lvl=5; h,r-ind=1,1
      [3,3]((7,9,35),(4,5,20),(3,4,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,4),(7,9,35),(4,5,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,4),(5,6,25),(4,5,20)); lvl=5; h,r-ind=1,1
    [4,3]((2,3,10),(2,3,11),(1,1,4),(7,9,35)); lvl=4; h,r-ind=1,3
      [3,3]((2,3,11),(3,4,15),(7,9,35)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,4),(3,4,15),(7,9,35)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,10),(1,1,4),(3,4,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,10),(2,3,11),(3,4,15)); lvl=5; h,r-ind=1,1
    [3,3]((2,3,11),(3,4,16),(7,9,35)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((2,3,11),(4,6,23),(3,4,16)); lvl=4; h,r-ind=1,1
[3,3]((2,3,10),(1,1,4),(3,4,13)); lvl=2; h,r-ind=1,1
[3,3]((2,2,7),(1,1,4),(3,4,13)); lvl=2; h,r-ind=1,1
[3,3]((4,6,19),(2,3,10),(3,4,13)); lvl=2; h,r-ind=1,1
[4,3]((2,3,16),(3,4,22),(6,8,35),(4,6,25)); lvl=2; h,r-ind=1,1
  [3,3]((6,8,35),(3,4,18),(5,7,30)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,13),(3,4,18),(5,7,30)); lvl=3; h,r-ind=1,1
  [3,3]((4,6,25),(2,3,13),(5,7,30)); lvl=3; h,r-ind=1,1
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    [4,3]((2,3,14),(2,3,13),(6,8,39),(3,4,18)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,13),(7,10,46),(3,4,19),(3,4,18)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,10,46),(3,4,19),(5,7,32)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,18),(3,4,19),(5,7,32)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,13),(7,10,46),(5,7,32)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,18),(2,3,13),(5,7,32)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,14),(2,3,13),(7,10,46)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,14),(7,10,46),(3,4,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,14),(6,8,39),(3,4,19)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,16),(2,3,14),(3,4,22),(6,8,39)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,14),(3,4,20),(6,8,39)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,15),(2,3,14),(6,8,41),(3,4,20)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,35),(3,4,20),(6,8,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,15),(5,7,35),(6,8,41)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,35),(2,3,14),(3,4,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,15),(5,7,35),(2,3,14)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,15),(2,3,16),(3,4,22),(6,8,41)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,21),(2,3,16),(7,10,52),(3,4,22)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((7,10,52),(5,7,37),(2,3,16)); lvl=6; h,r-ind=1,1
          [3,3]((3,4,22),(5,7,37),(2,3,16)); lvl=6; h,r-ind=1,1
          [3,3]((3,4,21),(7,10,52),(5,7,37)); lvl=6; h,r-ind=1,1
          [3,3]((3,4,22),(3,4,21),(5,7,37)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,15),(3,4,21),(7,10,52)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,15),(6,8,41),(3,4,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,15),(2,3,16),(7,10,52)); lvl=5; h,r-ind=1,1
[3,3]((1,0,0),(2,2,7),(1,1,6)); lvl=1; h,r-ind=5,5; optimized-h
[3,3]((2,3,19),(1,0,0),(1,1,6)); lvl=1; h,r-ind=1,1
[5,3]((3,5,25),(2,3,16),(1,2,8),(1,2,5),(4,6,19)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,5),(2,3,10),(4,6,19)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,5),(2,4,13),(6,10,39),(4,6,25),(2,3,10)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,19),(2,4,13),(4,7,26),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,32),(4,7,26),(2,4,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(5,9,32),(2,4,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,19),(1,2,6),(5,9,32)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,19),(5,9,32),(4,7,26)); lvl=4; h,r-ind=1,1
    [4,3]((4,6,23),(2,3,12),(3,5,19),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,18),(2,3,12),(3,5,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(3,5,18),(3,5,19)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,23),(1,2,6),(3,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,23),(3,5,18),(2,3,12)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,5),(2,3,10),(4,6,23),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(4,6,23),(2,3,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(4,7,22),(2,3,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,5),(2,3,10),(4,7,22),(2,3,11)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,16),(2,3,11),(2,3,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(3,5,16),(2,3,10)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,22),(3,5,16),(2,3,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(4,7,22),(3,5,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,6),(1,2,5),(4,7,22)); lvl=4; h,r-ind=1,1
    [4,3]((6,10,39),(3,5,19),(5,8,32),(4,7,26)); lvl=3; h,r-ind=1,1
      [3,3]((9,15,58),(3,5,19),(5,8,32)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,39),(9,15,58),(5,8,32)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,26),(9,15,58),(3,5,19)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,39),(4,7,26),(9,15,58)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,12),(3,5,19),(5,8,32),(4,6,25)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,44),(5,8,32),(3,5,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,12),(7,11,44),(3,5,19)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,25),(7,11,44),(5,8,32)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,12),(4,6,25),(7,11,44)); lvl=4; h,r-ind=1,1
  [4,3]((1,2,8),(3,5,24),(2,4,13),(6,10,39)); lvl=2; h,r-ind=3,1; alert-h-inc
    [3,3]((1,2,7),(6,10,43),(3,5,20)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((4,7,26),(1,2,7),(3,5,20)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,26),(6,10,39),(3,5,20)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,26),(2,4,13),(1,2,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,8),(1,2,7),(3,5,24),(6,10,43)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(3,5,22),(6,10,43)); lvl=4; h,r-ind=1,1
      [4,3]((6,11,45),(1,2,7),(6,10,45),(3,5,22)); lvl=4; h,r-ind=1,1
        [4,3]((6,10,45),(4,7,30),(3,5,22),(8,14,59)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,7,30),(8,14,59),(7,12,52)); lvl=6; h,r-ind=1,1
          [3,3]((3,5,22),(8,14,59),(7,12,52)); lvl=6; h,r-ind=1,1
          [3,3]((6,10,45),(4,7,30),(7,12,52)); lvl=6; h,r-ind=1,1
          [3,3]((3,5,22),(6,10,45),(7,12,52)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,7),(3,5,22),(8,14,59)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(4,7,30),(8,14,59)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(6,11,45),(4,7,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,8),(6,11,45),(1,2,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,8),(6,11,45),(3,5,24),(6,10,45)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((4,7,30),(3,5,23),(6,10,45)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,30),(9,16,69),(3,5,23)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,8),(3,5,24),(9,16,69),(3,5,23)); lvl=5; h,r-ind=1,3
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            [3,3]((4,7,31),(3,5,24),(3,5,23)); lvl=6; h,r-ind=1,1
            [3,3]((9,16,69),(4,7,31),(3,5,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,8),(9,16,69),(4,7,31)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,8),(4,7,31),(3,5,24)); lvl=6; h,r-ind=1,1
          [4,3]((1,2,8),(6,11,45),(4,7,30),(9,16,69)); lvl=5; h,r-ind=1,3
            [3,3]((6,11,45),(5,9,38),(4,7,30)); lvl=6; h,r-ind=1,1
            [3,3]((9,16,69),(5,9,38),(4,7,30)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,8),(9,16,69),(5,9,38)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,8),(6,11,45),(5,9,38)); lvl=6; h,r-ind=1,1
    [3,3]((3,5,25),(1,2,8),(3,5,24)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,16),(3,5,24),(6,10,39),(4,6,25)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,32),(6,10,39),(3,5,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(5,8,32),(3,5,20)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,14),(2,3,13),(6,10,43),(3,5,20)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,14),(6,10,43),(3,5,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,14),(7,11,48),(3,5,21)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,13),(7,11,48),(3,5,20),(3,5,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,20),(5,8,34),(3,5,21)); lvl=5; h,r-ind=1,1
          [3,3]((7,11,48),(5,8,34),(3,5,21)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,13),(7,11,48),(5,8,34)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,13),(3,5,20),(5,8,34)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,13),(2,3,14),(7,11,48)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,16),(2,3,14),(3,5,24),(6,10,43)); lvl=3; h,r-ind=1,1
        [4,3]((2,3,14),(2,3,15),(3,5,22),(6,10,45)); lvl=4; h,r-ind=1,1
          [3,3]((3,5,22),(6,10,45),(5,8,37)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,15),(6,10,45),(5,8,37)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,14),(3,5,22),(5,8,37)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,15),(2,3,14),(5,8,37)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,16),(2,3,15),(3,5,24),(6,10,45)); lvl=4; h,r-ind=1,1
          [3,3]((2,3,15),(6,10,45),(3,5,23)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,15),(7,11,54),(3,5,23)); lvl=5; h,r-ind=1,1
          [4,3]((2,3,16),(3,5,24),(7,11,54),(3,5,23)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,5,24),(5,8,39),(3,5,23)); lvl=6; h,r-ind=1,1
            [3,3]((7,11,54),(5,8,39),(3,5,23)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,16),(7,11,54),(5,8,39)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,16),(3,5,24),(5,8,39)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,15),(2,3,16),(7,11,54)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,14),(6,10,43),(3,5,22)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,25),(2,3,13),(5,8,32)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,16),(3,5,25),(3,5,24)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,8),(1,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((3,5,25),(3,5,27),(0,1,0),(1,2,8)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,8),(6,11,51),(1,2,9),(0,1,0)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((6,11,51),(2,4,17),(1,2,9)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,17),(1,2,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(0,1,0),(2,4,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(6,11,51),(2,4,17)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,34),(6,11,51),(1,2,9),(3,5,26)); lvl=2; h,r-ind=1,1
      [3,3]((6,11,51),(1,2,9),(5,9,43)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,26),(1,2,9),(5,9,43)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,34),(6,11,51),(5,9,43)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,26),(4,7,34),(5,9,43)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,9),(3,5,27),(3,5,26)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,8),(3,5,25),(4,7,34),(6,11,51)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,25),(5,9,42),(4,7,34)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,51),(5,9,42),(4,7,34)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(6,11,51),(5,9,42)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(3,5,25),(5,9,42)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,25),(4,7,34),(3,5,26)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,19),(3,5,27),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((0,1,0),(1,2,5),(1,0,0),(4,6,19),(2,2,7)); lvl=1; h,r-ind=1,1
    [4,3]((4,6,19),(3,4,12),(2,3,9),(3,4,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,9),(3,4,12),(5,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(3,4,12),(5,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,19),(2,3,9),(5,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(4,6,19),(5,7,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(4,6,19),(2,3,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,7),(1,1,3),(3,4,12),(3,4,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,16),(3,4,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(4,5,16),(3,4,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,7),(1,1,3),(4,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(2,2,7),(4,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,7),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,0,0),(1,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,1,2),(2,3,5),(1,0,0)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,5),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,3,5),(2,3,4)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((2,3,3),(1,1,1),(1,1,2),(2,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,5),(1,1,2),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
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      [3,3]((2,3,4),(3,4,5),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,3),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(2,3,4)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(1,1,2)); lvl=3; h,r-ind=1,1
  [4,3]((5,7,20),(3,4,11),(1,1,3),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,11),(1,1,3),(6,8,23)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,12),(1,1,3),(6,8,23)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,20),(3,4,12),(6,8,23)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,20),(3,4,11),(6,8,23)); lvl=3; h,r-ind=1,1
  [5,3]((1,1,2),(3,4,11),(2,3,7),(2,3,5),(1,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,10),(3,4,9),(2,3,6),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,16),(2,3,6),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(5,7,16),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,16),(2,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(2,3,7),(5,7,16)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,11),(3,4,10),(2,3,7)); lvl=3; h,r-ind=1,1
    [5,3]((5,6,14),(3,4,9),(1,1,2),(2,3,5),(2,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((7,9,19),(6,8,17),(2,3,6),(3,4,8)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,17),(2,3,6),(9,12,25)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,8),(2,3,6),(9,12,25)); lvl=5; h,r-ind=1,1
        [3,3]((7,9,19),(3,4,8),(9,12,25)); lvl=5; h,r-ind=1,1
        [3,3]((7,9,19),(6,8,17),(9,12,25)); lvl=5; h,r-ind=1,1
      [3,3]((7,9,19),(1,1,2),(3,4,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(1,1,2),(3,4,8)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,11),(7,9,19),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,14),(4,5,11),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(2,3,6),(3,4,8)); lvl=4; h,r-ind=1,1
      [4,3]((4,5,11),(7,9,19),(6,8,17),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,17),(7,9,19),(10,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,11),(7,9,19),(10,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,9),(4,5,11),(10,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,9),(6,8,17),(10,13,28)); lvl=5; h,r-ind=1,1
      [3,3]((5,6,14),(4,5,11),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,17),(2,3,6),(3,4,9)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,10),(5,6,14),(3,4,9),(1,1,3)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,12),(3,4,9),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,12),(1,1,3),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(4,5,12),(1,1,3)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(4,5,12),(3,4,9)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,11),(3,4,10),(1,1,3)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,14),(1,1,3),(1,1,2)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,4),(2,3,7),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=3; h,r-ind=1,1
  [4,3]((5,7,20),(4,6,17),(3,4,12),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,17),(2,3,9),(7,10,29)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,12),(2,3,9),(7,10,29)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,20),(3,4,12),(7,10,29)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,20),(4,6,17),(7,10,29)); lvl=3; h,r-ind=1,1
  [4,3]((3,5,13),(4,6,17),(1,2,5),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,22),(2,3,9),(4,6,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,13),(5,8,22),(4,6,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(5,8,22),(2,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,13),(1,2,5),(5,8,22)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,4),(3,5,13),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(1,2,4),(3,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,4,9),(3,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,9),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(0,1,0),(2,4,9)); lvl=3; h,r-ind=1,1
  [6,3]((1,2,4),(3,5,13),(5,7,20),(4,6,17),(3,4,11),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(3,5,13),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(2,3,8),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,11),(2,3,7),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,20),(3,4,11),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,17),(2,3,8),(3,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,20),(4,6,17),(2,3,8)); lvl=3; h,r-ind=1,1
[4,3]((2,3,18),(2,3,16),(3,4,23),(3,4,24)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,17),(8,11,64),(3,4,23),(2,3,16)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((3,4,23),(5,7,40),(8,11,64)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,17),(5,7,40),(8,11,64)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,16),(2,3,17),(5,7,40)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,16),(3,4,23),(5,7,40)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,24),(8,11,64),(3,4,23)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,17),(2,3,18),(3,4,24),(8,11,64)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,3,18),(5,7,41),(3,4,24)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((8,11,64),(5,7,41),(3,4,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,17),(8,11,64),(5,7,41)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,17),(2,3,18),(5,7,41)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,19),(2,3,18),(3,4,24)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,18),(3,5,25),(3,5,27),(2,3,16)); lvl=1; h,r-ind=2,1
    [4,3]((2,3,17),(2,3,16),(3,5,26),(3,5,25)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,25),(3,5,26),(5,8,42)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,17),(3,5,26),(5,8,42)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,16),(2,3,17),(5,8,42)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,16),(3,5,25),(5,8,42)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,17),(2,3,18),(3,5,27),(3,5,26)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,27),(2,3,18),(5,8,44)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,17),(2,3,18),(5,8,44)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,26),(2,3,17),(5,8,44)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,26),(3,5,27),(5,8,44)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,19),(2,3,18),(3,5,27)); lvl=1; h,r-ind=1,1
```

19.22 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,4,19)); lvl=0; h,r-ind=19,361
  [4,3]((1,2,9),(2,2,9),(2,3,13),(3,5,23)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,18),(2,2,9),(2,3,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,9),(3,4,18),(2,3,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,9),(3,5,23),(3,4,18)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,23),(3,4,18),(2,2,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,4,19),(1,2,9),(3,5,23)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,8),(1,2,9),(2,3,13)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,8),(1,2,9)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,19),(0,1,0),(1,2,9)); lvl=1; h,r-ind=1,1
  [4,3]((2,4,19),(1,0,0),(2,2,9),(3,5,23)); lvl=1; h,r-ind=1,2
    [3,3]((2,3,14),(1,0,0),(2,2,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,23),(2,3,14),(2,2,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,19),(2,3,14),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,23),(2,4,19),(2,3,14)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,8),(1,2,5),(1,0,0),(2,2,9),(2,3,13)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,13),(1,1,3),(2,2,7),(1,2,5)); lvl=2; h,r-ind=1,1
      [4,3]((2,2,7),(3,4,13),(1,1,3),(5,7,22)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,16),(3,4,13),(5,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(4,5,16),(5,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,7),(4,5,16),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(2,2,7),(4,5,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,6),(1,2,5),(1,1,3),(5,7,22)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,3,9),(1,2,5),(1,1,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,22),(2,3,9),(1,1,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(5,7,22),(2,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,3,9),(1,2,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,6),(2,3,10),(3,4,13),(5,7,22)); lvl=3; h,r-ind=1,1
        [3,3]((4,6,19),(2,3,10),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,22),(4,6,19),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(5,7,22),(4,6,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(4,6,19),(2,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,13),(1,2,6),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(2,2,7),(3,4,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(1,0,0),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,0,0),(2,2,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,8),(2,4,13),(1,1,4),(2,2,7)); lvl=2; h,r-ind=1,1
      [4,3]((5,7,25),(3,4,14),(2,2,7),(1,1,4)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,18),(3,4,14),(2,2,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(4,5,18),(2,2,7)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,25),(4,5,18),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(5,7,25),(4,5,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,8),(1,2,7),(5,7,25),(1,1,4)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,3,11),(1,2,7),(5,7,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(1,1,4),(5,7,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,8),(2,3,11),(1,1,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,8),(2,3,11),(1,2,7)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,10),(1,2,7),(5,7,25),(3,4,14)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,7),(4,6,21),(5,7,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,14),(4,6,21),(5,7,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,14),(2,3,10),(4,6,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(1,2,7),(4,6,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(2,4,13),(1,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(3,4,14),(2,2,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,8),(2,3,13),(1,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,13),(1,1,4),(2,2,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,4),(2,2,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,4),(2,2,7)); lvl=2; h,r-ind=1,1
```

```
  [3,3]((0,1,0),(1,2,8),(1,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,2,5),(1,0,0)); lvl=1; h,r-ind=5,25; optimized-h
```

19.23 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,5,19)); lvl=0; h,r-ind=19,361
  [6,3]((3,7,25),(2,5,18),(3,7,21),(3,8,22),(2,5,14),(3,8,27)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,15),(2,5,16),(3,8,22),(6,16,49)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,16),(9,23,70),(3,8,24),(6,16,47)); lvl=3; h,r-ind=1,1
        [4,3]((5,13,39),(3,8,24),(10,26,79),(6,16,47)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((8,21,63),(3,8,24),(10,26,79)); lvl=5; h,r-ind=1,1
          [3,3]((5,13,39),(8,21,63),(10,26,79)); lvl=5; h,r-ind=1,1
          [3,3]((6,16,47),(8,21,63),(3,8,24)); lvl=5; h,r-ind=1,1
          [3,3]((5,13,39),(6,16,47),(8,21,63)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,16),(5,13,39),(10,26,79)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,16),(5,13,39),(9,23,70)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,16),(3,8,24),(10,26,79)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,15),(9,23,70),(3,8,22),(6,16,47)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,5,15),(12,31,92),(3,8,23),(3,8,22)); lvl=4; h,r-ind=1,3
          [3,3]((12,31,92),(5,13,38),(3,8,23)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,22),(5,13,38),(3,8,23)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(3,8,22),(5,13,38)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(12,31,92),(5,13,38)); lvl=5; h,r-ind=1,1
        [3,3]((12,31,92),(5,13,39),(3,8,23)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((5,13,39),(6,16,47),(3,8,23)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,15),(12,31,92),(5,13,39),(9,23,70)); lvl=4; h,r-ind=1,3
          [3,3]((7,18,54),(12,31,92),(5,13,39)); lvl=5; h,r-ind=1,1
          [3,3]((9,23,70),(7,18,54),(5,13,39)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(9,23,70),(7,18,54)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(7,18,54),(12,31,92)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,16),(6,16,49),(3,8,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,15),(2,5,16),(9,23,70)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,17),(2,5,16),(3,8,27),(6,16,49)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,16),(9,23,75),(3,8,25),(6,16,51)); lvl=3; h,r-ind=1,1
        [4,3]((3,8,25),(10,26,83),(6,16,51),(5,13,42)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,13,42),(8,21,67),(10,26,83)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,25),(8,21,67),(10,26,83)); lvl=5; h,r-ind=1,1
          [3,3]((6,16,51),(5,13,42),(8,21,67)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,25),(6,16,51),(8,21,67)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,16),(10,26,83),(5,13,42)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,16),(9,23,75),(5,13,42)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,16),(3,8,25),(10,26,83)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,17),(9,23,75),(3,8,27),(6,16,51)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((5,13,42),(12,31,102),(3,8,26)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((2,5,17),(3,8,27),(12,31,102),(3,8,26)); lvl=4; h,r-ind=1,3
          [3,3]((5,13,43),(3,8,26),(3,8,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,17),(5,13,43),(3,8,27)); lvl=5; h,r-ind=1,1
          [3,3]((12,31,102),(5,13,43),(3,8,26)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,17),(12,31,102),(5,13,43)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,42),(6,16,51),(3,8,26)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,17),(9,23,75),(5,13,42),(12,31,102)); lvl=4; h,r-ind=1,3
          [3,3]((9,23,75),(7,18,59),(5,13,42)); lvl=5; h,r-ind=1,1
          [3,3]((12,31,102),(7,18,59),(5,13,42)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,17),(12,31,102),(7,18,59)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,17),(9,23,75),(7,18,59)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,16),(6,16,49),(3,8,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,17),(2,5,16),(9,23,75)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,18),(2,5,17),(3,8,27)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,21),(2,5,15),(2,5,16),(3,7,23)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,15),(2,5,16),(7,17,53)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,22),(3,7,23),(2,5,16),(7,17,53)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,38),(3,7,23),(2,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,53),(5,12,38),(2,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,22),(7,17,53),(5,12,38)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,22),(5,12,38),(3,7,23)); lvl=4; h,r-ind=1,1
      [4,3]((3,7,21),(3,7,22),(2,5,15),(7,17,53)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,37),(7,17,53),(3,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,21),(5,12,37),(3,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,15),(3,7,21),(5,12,37)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,15),(5,12,37),(7,17,53)); lvl=4; h,r-ind=1,1
    [4,3]((3,7,25),(2,5,17),(2,5,16),(3,7,23)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,17),(2,5,16),(7,17,57)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,24),(3,7,23),(2,5,16),(7,17,57)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,40),(3,7,23),(2,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,57),(5,12,40),(2,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,24),(7,17,57),(5,12,40)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,24),(5,12,40),(3,7,23)); lvl=4; h,r-ind=1,1
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      [4,3]((3,7,25),(3,7,24),(2,5,17),(7,17,57)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,41),(7,17,57),(3,7,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,25),(5,12,41),(3,7,24)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,41),(2,5,17),(7,17,57)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,25),(5,12,41),(2,5,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,18),(3,7,25),(2,5,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,15),(2,5,14),(3,8,22)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,21),(2,5,15),(2,5,14)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,19),(2,5,18),(3,8,27)); lvl=1; h,r-ind=1,1
  [6,3]((3,7,25),(4,9,33),(3,7,21),(1,2,6),(2,3,11),(4,5,18)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,7),(3,6,22),(4,9,33)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,25),(1,2,7),(4,9,33)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,25),(1,2,7),(3,7,23)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,7),(3,7,23),(3,7,21)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,7),(3,7,21),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,7),(3,6,22),(2,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,7),(2,3,11),(4,5,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,7),(4,5,18),(5,7,24)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,7),(1,2,6),(5,7,24)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(2,3,11),(4,5,18)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,19),(4,9,33),(2,3,11)); lvl=1; h,r-ind=4,2; optimized-h
  [3,3]((1,0,0),(2,5,19),(2,3,11)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((2,5,19),(3,7,25),(4,9,33),(2,5,18)); lvl=1; h,r-ind=1,1
    [4,3]((3,7,26),(8,19,69),(3,7,25),(4,9,33)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((8,19,69),(6,14,51),(3,7,25)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,33),(6,14,51),(3,7,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,26),(4,9,33),(6,14,51)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,26),(8,19,69),(6,14,51)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,18),(8,19,69),(3,7,25)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,26),(2,5,19),(2,5,18),(8,19,69)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,18),(2,5,19),(5,12,44)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,26),(2,5,19),(5,12,44)); lvl=3; h,r-ind=1,1
      [3,3]((8,19,69),(2,5,18),(5,12,44)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,26),(8,19,69),(5,12,44)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(1,2,6),(4,5,18),(1,2,4)); lvl=1; h,r-ind=2,2
    [4,3]((1,1,3),(3,3,10),(5,7,24),(1,2,6)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,10),(8,10,33),(4,5,17),(5,6,20)); lvl=3; h,r-ind=1,1
        [3,3]((7,9,30),(8,10,33),(5,6,20)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,17),(7,9,30),(5,6,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(4,5,17),(7,9,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(7,9,30),(8,10,33)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,10),(4,5,17),(5,6,20)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,3),(8,10,33),(3,3,10),(5,6,20)); lvl=3; h,r-ind=1,1
        [3,3]((8,10,33),(6,7,23),(5,6,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,10),(6,7,23),(5,6,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(8,10,33),(6,7,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,10),(1,1,3),(6,7,23)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,3),(1,2,6),(2,3,10),(8,10,33)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,4,13),(2,3,10),(1,2,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(3,4,13),(1,2,6)); lvl=4; h,r-ind=1,1
        [3,3]((8,10,33),(3,4,13),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(8,10,33),(3,4,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(5,7,24),(4,5,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(1,1,3),(1,2,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(1,2,5),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,5),(1,1,3),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,1,3),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,5),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(3,3,10)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,18),(2,2,7),(3,3,10),(5,7,24)); lvl=2; h,r-ind=1,1
      [4,3]((6,7,24),(11,13,45),(2,2,7),(3,3,10)); lvl=3; h,r-ind=1,1
        [3,3]((8,9,31),(2,2,7),(11,13,45)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,24),(8,9,31),(11,13,45)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,24),(3,3,10),(8,9,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,10),(8,9,31),(2,2,7)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,17),(6,7,24),(3,3,10)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,14),(4,5,17),(6,7,24),(11,13,45)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,17),(9,11,38),(6,7,24)); lvl=4; h,r-ind=1,1
        [3,3]((11,13,45),(9,11,38),(6,7,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,14),(4,5,17),(9,11,38)); lvl=4; h,r-ind=1,1
        [3,3]((11,13,45),(3,4,14),(9,11,38)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,14),(5,7,24),(4,5,17)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,18),(3,4,14),(11,13,45),(2,2,7)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,4,14),(5,6,21),(11,13,45)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,7),(5,6,21),(11,13,45)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,18),(2,2,7),(5,6,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,18),(3,4,14),(5,6,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(4,5,18),(2,2,7)); lvl=2; h,r-ind=1,1
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    [3,3]((1,0,0),(2,2,7),(3,3,10)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,3,7),(3,8,22),(3,8,27)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,8),(1,3,7),(3,8,22)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,8),(6,16,49),(3,8,22)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,3,9),(3,8,27),(1,3,8),(6,16,49)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,8),(3,8,25),(6,16,49)); lvl=3; h,r-ind=1,1
      [4,3]((6,17,51),(1,3,8),(3,8,25),(6,16,51)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,8),(3,8,25),(8,22,67)); lvl=4; h,r-ind=1,1
        [4,3]((6,16,51),(4,11,34),(3,8,25),(8,22,67)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((8,22,67),(4,11,34),(7,19,59)); lvl=5; h,r-ind=1,1
          [3,3]((6,16,51),(4,11,34),(7,19,59)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,25),(6,16,51),(7,19,59)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,25),(8,22,67),(7,19,59)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,34),(1,3,8),(8,22,67)); lvl=4; h,r-ind=1,1
        [3,3]((6,17,51),(4,11,34),(1,3,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(6,17,51),(1,3,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,9),(6,17,51),(3,8,27),(6,16,51)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((4,11,34),(3,8,26),(6,16,51)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,34),(9,25,78),(3,8,26)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,3,9),(3,8,27),(9,25,78),(3,8,26)); lvl=4; h,r-ind=1,3
          [3,3]((3,8,27),(4,11,35),(3,8,26)); lvl=5; h,r-ind=1,1
          [3,3]((9,25,78),(4,11,35),(3,8,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,9),(9,25,78),(4,11,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,9),(3,8,27),(4,11,35)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,9),(6,17,51),(4,11,34),(9,25,78)); lvl=4; h,r-ind=1,3
          [3,3]((6,17,51),(5,14,43),(4,11,34)); lvl=5; h,r-ind=1,1
          [3,3]((9,25,78),(5,14,43),(4,11,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,9),(9,25,78),(5,14,43)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,9),(6,17,51),(5,14,43)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,9),(1,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,8),(1,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,19),(0,1,0),(3,8,27)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,3,7),(1,3,5)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((4,10,19),(1,3,7),(1,3,5),(3,8,22),(2,5,14)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,5),(4,10,19),(2,5,10)); lvl=2; h,r-ind=1,1
    [5,3]((1,3,6),(3,8,18),(4,10,23),(1,3,5),(2,5,10)); lvl=2; h,r-ind=1,1
      [4,3]((3,8,18),(6,16,35),(2,5,11),(4,10,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,16,35),(5,13,29),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,23),(5,13,29),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,18),(6,16,35),(5,13,29)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,23),(3,8,18),(5,13,29)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,6),(4,11,22),(6,16,35),(2,5,11)); lvl=3; h,r-ind=1,1
        [3,3]((3,8,17),(4,11,22),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((6,16,35),(3,8,17),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(3,8,17),(4,11,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(6,16,35),(3,8,17)); lvl=4; h,r-ind=1,1
      [4,3]((4,11,22),(1,3,5),(2,5,10),(2,5,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,16),(2,5,10),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,22),(3,8,16),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(4,11,22),(3,8,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(3,8,16),(2,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(4,11,22),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(3,8,18),(6,16,35)); lvl=3; h,r-ind=1,1
    [4,3]((3,8,18),(3,8,21),(2,5,14),(4,10,23)); lvl=2; h,r-ind=1,1
      [4,3]((6,16,39),(4,10,25),(2,5,14),(3,8,21)); lvl=3; h,r-ind=3,1; alert-h-inc
        [3,3]((5,13,32),(2,5,13),(4,10,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,20),(5,13,32),(2,5,13)); lvl=4; h,r-ind=1,1
        [4,3]((3,8,21),(3,8,20),(2,5,14),(2,5,13)); lvl=4; h,r-ind=1,1
          [3,3]((2,5,14),(2,5,13),(5,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,20),(2,5,13),(5,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,21),(3,8,20),(5,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,21),(2,5,14),(5,13,34)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,20),(5,13,32),(6,16,39)); lvl=4; h,r-ind=1,1
      [4,3]((3,8,18),(6,16,39),(2,5,12),(4,10,25)); lvl=3; h,r-ind=1,1
        [4,3]((12,31,75),(7,18,44),(4,10,25),(2,5,12)); lvl=4; h,r-ind=1,1
          [3,3]((7,18,44),(4,10,25),(9,23,56)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,12),(4,10,25),(9,23,56)); lvl=5; h,r-ind=1,1
          [3,3]((12,31,75),(7,18,44),(9,23,56)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,12),(12,31,75),(9,23,56)); lvl=5; h,r-ind=1,1
        [4,3]((3,8,18),(3,8,19),(12,31,75),(2,5,12)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((3,8,19),(5,13,31),(12,31,75)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,12),(5,13,31),(12,31,75)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,18),(2,5,12),(5,13,31)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,18),(3,8,19),(5,13,31)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,32),(7,18,44),(4,10,25)); lvl=4; h,r-ind=1,1
        [4,3]((3,8,19),(12,31,75),(5,13,32),(7,18,44)); lvl=4; h,r-ind=1,1
          [3,3]((10,26,63),(12,31,75),(7,18,44)); lvl=5; h,r-ind=1,1
          [3,3]((5,13,32),(10,26,63),(7,18,44)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,19),(5,13,32),(10,26,63)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,19),(10,26,63),(12,31,75)); lvl=5; h,r-ind=1,1
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      [3,3]((3,8,19),(6,16,39),(5,13,32)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,18),(4,10,23),(2,5,12)); lvl=3; h,r-ind=1,1
  [3,3]((3,8,22),(3,8,21),(2,5,14)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,7),(3,8,22),(3,8,21)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,7),(1,3,6),(3,8,18),(3,8,21)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,6),(6,17,39),(3,8,18),(6,16,39)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((4,11,26),(3,8,19),(6,16,39)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,26),(9,25,57),(3,8,19)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,3,6),(9,25,57),(3,8,18),(3,8,19)); lvl=4; h,r-ind=1,3
        [3,3]((3,8,18),(4,11,25),(3,8,19)); lvl=5; h,r-ind=1,1
        [3,3]((9,25,57),(4,11,25),(3,8,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(9,25,57),(4,11,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(3,8,18),(4,11,25)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,6),(6,17,39),(4,11,26),(9,25,57)); lvl=4; h,r-ind=1,3
        [3,3]((6,17,39),(5,14,32),(4,11,26)); lvl=5; h,r-ind=1,1
        [3,3]((9,25,57),(5,14,32),(4,11,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(9,25,57),(5,14,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(6,17,39),(5,14,32)); lvl=5; h,r-ind=1,1
    [4,3]((3,8,21),(1,3,7),(6,17,39),(6,16,39)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((4,11,26),(9,25,60),(1,3,7),(6,17,39)); lvl=4; h,r-ind=1,3
        [3,3]((9,25,60),(5,14,33),(1,3,7)); lvl=5; h,r-ind=1,1
        [3,3]((6,17,39),(5,14,33),(1,3,7)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,26),(9,25,60),(5,14,33)); lvl=5; h,r-ind=1,1
        [3,3]((6,17,39),(4,11,26),(5,14,33)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,20),(4,11,26),(9,25,60)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((3,8,20),(6,16,39),(4,11,26)); lvl=4; h,r-ind=1,1
      [4,3]((3,8,21),(3,8,20),(9,25,60),(1,3,7)); lvl=4; h,r-ind=1,3
        [3,3]((4,11,27),(3,8,20),(9,25,60)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,27),(1,3,7),(9,25,60)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,21),(4,11,27),(1,3,7)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,21),(4,11,27),(3,8,20)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,7),(1,3,6),(6,17,39)); lvl=3; h,r-ind=1,1
[5,3]((3,7,21),(1,2,6),(1,2,4),(4,10,19),(2,5,14)); lvl=1; h,r-ind=1,1
  [4,3]((3,7,17),(3,7,20),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((6,14,37),(3,7,20),(1,2,6),(6,13,35)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((3,7,19),(9,20,55),(1,2,6),(3,7,20)); lvl=4; h,r-ind=1,3
        [3,3]((1,2,6),(4,9,25),(9,20,55)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,19),(4,9,25),(9,20,55)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,20),(1,2,6),(4,9,25)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,19),(3,7,20),(4,9,25)); lvl=5; h,r-ind=1,1
      [4,3]((9,20,55),(4,9,24),(6,13,35),(1,2,6)); lvl=4; h,r-ind=1,3
        [3,3]((4,9,24),(5,11,30),(6,13,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(5,11,30),(6,13,35)); lvl=5; h,r-ind=1,1
        [3,3]((9,20,55),(1,2,6),(5,11,30)); lvl=5; h,r-ind=1,1
        [3,3]((9,20,55),(4,9,24),(5,11,30)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,19),(9,20,55),(4,9,24)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((3,7,19),(6,14,37),(4,9,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,6),(6,13,35)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(3,7,17),(6,14,37),(6,13,35)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,7,18),(4,9,24),(9,20,52)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,5),(6,13,35),(4,9,24),(9,20,52)); lvl=4; h,r-ind=1,3
        [3,3]((5,11,29),(4,9,24),(6,13,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(5,11,29),(6,13,35)); lvl=5; h,r-ind=1,1
        [3,3]((9,20,52),(5,11,29),(4,9,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(9,20,52),(5,11,29)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,5),(3,7,17),(3,7,18),(9,20,52)); lvl=4; h,r-ind=1,3
        [3,3]((4,9,23),(3,7,17),(3,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((9,20,52),(4,9,23),(3,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(9,20,52),(4,9,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(4,9,23),(3,7,17)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,18),(6,14,37),(4,9,24)); lvl=4; h,r-ind=1,1
  [5,3]((2,5,10),(3,7,17),(4,10,23),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,20),(1,2,5),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,10),(2,5,11),(4,9,20),(1,2,4)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,7,15),(2,5,11),(4,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,15),(4,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(3,7,15),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,10),(3,7,15)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,11),(4,9,20),(6,14,33),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,16),(1,2,5),(4,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(3,7,16),(4,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((6,14,33),(3,7,16),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(6,14,33),(3,7,16)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,17),(6,14,33),(1,2,5)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,11),(4,10,23),(3,7,17),(6,14,33)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,12,28),(3,7,17),(4,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(5,12,28),(4,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,28),(6,14,33),(3,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(5,12,28),(6,14,33)); lvl=4; h,r-ind=1,1
  [3,3]((2,5,10),(1,2,4),(4,10,19)); lvl=2; h,r-ind=1,1
```

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  [3,3]((3,7,21),(3,7,20),(1,2,6)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,14),(3,7,17),(4,10,23),(3,7,20)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,12),(4,10,25),(3,7,17),(6,14,37)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,31),(3,7,18),(6,14,37)); lvl=4; h,r-ind=1,1
      [4,3]((5,12,31),(7,17,43),(12,29,73),(3,7,18)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,43),(12,29,73),(10,24,61)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,18),(12,29,73),(10,24,61)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,31),(7,17,43),(10,24,61)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,18),(5,12,31),(10,24,61)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,12),(12,29,73),(3,7,17),(3,7,18)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((5,12,30),(3,7,18),(3,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,12),(5,12,30),(3,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((12,29,73),(5,12,30),(3,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,12),(12,29,73),(5,12,30)); lvl=5; h,r-ind=1,1
      [3,3]((4,10,25),(5,12,31),(7,17,43)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,12),(4,10,25),(7,17,43),(12,29,73)); lvl=4; h,r-ind=1,1
        [3,3]((9,22,55),(7,17,43),(4,10,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,12),(9,22,55),(4,10,25)); lvl=5; h,r-ind=1,1
        [3,3]((9,22,55),(12,29,73),(7,17,43)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,12),(9,22,55),(12,29,73)); lvl=5; h,r-ind=1,1
    [4,3]((3,7,20),(2,5,14),(4,10,25),(6,14,37)); lvl=3; h,r-ind=3,1; alert-h-inc
      [3,3]((4,10,25),(5,12,31),(2,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,19),(5,12,31),(2,5,13)); lvl=4; h,r-ind=1,1
      [4,3]((3,7,20),(3,7,19),(2,5,14),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,13),(2,5,14),(5,12,33)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,20),(2,5,14),(5,12,33)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,19),(3,7,20),(5,12,33)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,19),(2,5,13),(5,12,33)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,19),(6,14,37),(5,12,31)); lvl=4; h,r-ind=1,1
    [3,3]((4,10,23),(2,5,12),(3,7,17)); lvl=3; h,r-ind=1,1
  [3,3]((3,7,21),(2,5,14),(3,7,20)); lvl=2; h,r-ind=1,1
[5,3]((1,0,0),(0,1,0),(1,2,4),(4,10,19),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,4),(4,10,19),(2,5,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,5),(4,10,19),(2,5,9)); lvl=2; h,r-ind=1,1
  [4,3]((3,8,13),(4,10,17),(1,3,5),(2,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((5,13,22),(2,5,9),(4,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,13),(5,13,22),(4,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(5,13,22),(2,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,13),(1,3,5),(5,13,22)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,3,4),(3,8,13),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(1,3,4),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(1,3,5),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,6,9),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,6,9),(1,3,4)); lvl=3; h,r-ind=1,1
  [4,3]((3,7,12),(4,10,17),(1,2,4),(2,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(4,10,17),(5,12,21)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,12),(4,10,17),(5,12,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,7,12),(5,12,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,9),(5,12,21)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,2),(1,2,3),(3,7,12),(1,2,4)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((1,2,3),(2,4,7),(3,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,4,7),(3,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,4),(2,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,3),(2,4,7)); lvl=3; h,r-ind=1,1
  [7,3]((1,3,3),(1,3,4),(1,2,3),(2,5,5),(3,8,13),(3,7,12),(4,10,17)); lvl=2; h,r-ind=1,1
    [4,3]((4,11,14),(2,5,8),(2,5,7),(1,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,7),(3,8,11),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,11),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,14),(1,3,4),(3,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,14),(2,5,7),(3,8,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,3),(4,11,14),(1,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(2,5,6),(4,11,14),(2,5,7)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,6),(3,8,10),(2,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,14),(3,8,10),(2,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,6),(3,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,14),(1,3,3),(3,8,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,5),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,13),(2,5,8),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,13),(4,10,17),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(1,2,3),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(1,2,3),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,5),(2,5,6),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(3,7,12),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((4,10,17),(2,5,8),(3,7,12)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,2),(1,2,3),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,2),(4,6,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(1,1,2),(4,6,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,1,2),(5,6,9),(2,3,4),(4,6,9)); lvl=4; h,r-ind=1,3
        [3,3]((2,3,4),(3,4,6),(5,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(3,4,6),(5,6,9)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((4,6,9),(1,1,2),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,9),(2,3,4),(3,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(5,6,9),(2,3,4)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,1,1),(2,3,3),(2,3,4)); lvl=4; h,r-ind=1,1
        [4,3]((1,0,0),(1,1,2),(1,1,1),(5,6,9)); lvl=4; h,r-ind=1,3
          [3,3]((1,1,2),(2,2,3),(5,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(5,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,3),(1,2,2),(1,2,3),(4,6,9)); lvl=3; h,r-ind=1,1
        [3,3]((4,7,9),(1,2,3),(1,2,2)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,3),(2,3,4),(4,7,9),(1,2,2)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,4),(4,7,9),(3,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(4,7,9),(3,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,3),(2,3,4),(3,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,4),(4,7,9),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(2,3,4),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,5),(1,2,2),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(2,5,5)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,3,3),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,3,4)); lvl=2; h,r-ind=1,1
```

19.24 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,6,19)); lvl=0; h,r-ind=19,361
  [3,3]((1,1,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,1,2),(1,3,5),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(2,3,4),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,2),(1,1,1),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,3),(1,1,1),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,7),(1,2,3)); lvl=2; h,r-ind=1,1
    [5,3]((1,2,2),(2,5,5),(2,3,4),(2,5,7),(1,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((5,11,14),(1,2,3),(2,5,7),(3,7,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,3),(2,5,7),(4,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(2,5,7),(4,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,14),(3,7,9),(4,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,14),(1,2,3),(4,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(2,5,7),(3,7,9)); lvl=3; h,r-ind=1,1
      [6,3]((5,11,13),(3,7,8),(2,5,6),(6,13,16),(5,11,14),(3,7,9)); lvl=3; h,r-ind=1,1
        [3,3]((4,9,11),(3,7,9),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,8),(4,9,11),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(3,7,8),(4,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,11),(5,11,14),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,11),(5,11,14),(6,13,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(4,9,11),(6,13,16)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,8),(2,5,5),(2,5,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(5,11,13),(3,7,8),(2,5,5)); lvl=3; h,r-ind=1,1
        [3,3]((4,9,10),(5,11,13),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,5),(4,9,10),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,5,5),(4,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(4,9,10),(5,11,13)); lvl=4; h,r-ind=1,1
      [4,3]((2,4,5),(6,13,16),(5,11,14),(1,2,3)); lvl=3; h,r-ind=1,1
        [3,3]((5,11,14),(6,13,16),(7,15,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(6,13,16),(7,15,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,5),(7,15,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(5,11,14),(7,15,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(2,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(5,11,13),(2,4,5),(6,13,16)); lvl=3; h,r-ind=1,1
        [3,3]((5,11,13),(6,13,16),(7,15,18)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,4,5),(6,13,16),(7,15,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(5,11,13),(7,15,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(7,15,18)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((0,1,0),(2,5,5),(1,3,5),(2,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(2,6,7),(2,5,6),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(2,5,6),(2,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,10),(2,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,10),(2,5,7),(2,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,4),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,7),(1,3,3),(2,5,5),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(2,5,5),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,7),(3,8,9),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(2,6,7),(3,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(3,8,9),(2,5,5)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,6,7),(1,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,4),(2,6,7)); lvl=3; h,r-ind=1,1
[3,3]((2,6,19),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
[5,3]((1,1,3),(1,1,2),(1,3,5),(1,2,6),(1,3,7)); lvl=1; h,r-ind=1,2
  [4,3]((2,4,9),(1,2,5),(1,3,6),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,11),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,5,11),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,4,9),(2,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(1,3,6),(2,5,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,6),(1,2,5),(1,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,3),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,4),(2,4,9),(1,3,5),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,5),(2,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,5),(2,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(1,2,4),(2,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(1,3,6),(2,5,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,2),(1,2,4),(1,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,2),(2,3,7),(1,2,4),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,4,9),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(2,4,9),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,7),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,4),(3,5,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,3),(1,1,2),(2,3,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,3),(2,3,7),(2,4,9),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(2,4,9),(3,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,4,9),(3,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,7),(3,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(1,1,3),(3,5,12)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,3,5),(1,3,7)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((2,6,19),(1,1,3),(1,2,6)); lvl=1; h,r-ind=1,1
[3,3]((1,2,6),(1,3,9),(1,3,7)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((0,1,0),(1,3,9),(1,3,7)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((2,6,19),(0,1,0),(1,3,9)); lvl=1; h,r-ind=1,1
[3,3]((2,6,19),(1,2,6),(1,3,9)); lvl=1; h,r-ind=1,1
```

19.25 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,7,19)); lvl=0; h,r-ind=19,361
  [3,3]((1,2,5),(1,0,0),(1,3,8)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,19),(1,0,0),(1,3,8)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,5),(1,3,6),(1,3,8)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((2,7,18),(1,3,6),(2,7,13),(1,3,8)); lvl=1; h,r-ind=1,1
    [4,3]((4,14,31),(1,3,7),(2,7,13),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,6),(5,16,34)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,13),(4,14,29),(1,3,6),(5,16,34)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((7,23,47),(1,3,6),(5,16,34),(3,10,21)); lvl=4; h,r-ind=1,3
          [3,3]((4,13,27),(1,3,6),(5,16,34)); lvl=5; h,r-ind=1,1
          [3,3]((4,13,27),(3,10,21),(5,16,34)); lvl=5; h,r-ind=1,1
          [3,3]((7,23,47),(4,13,27),(3,10,21)); lvl=5; h,r-ind=1,1
          [3,3]((7,23,47),(4,13,27),(1,3,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,14),(7,23,47),(3,10,21)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,7,14),(4,14,29),(3,10,21)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,14),(2,7,13),(7,23,47),(1,3,6)); lvl=4; h,r-ind=1,3
          [3,3]((1,3,6),(3,10,20),(2,7,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,14),(3,10,20),(2,7,13)); lvl=5; h,r-ind=1,1
          [3,3]((7,23,47),(1,3,6),(3,10,20)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,14),(7,23,47),(3,10,20)); lvl=5; h,r-ind=1,1
      [4,3]((2,7,15),(4,14,29),(1,3,7),(5,16,34)); lvl=3; h,r-ind=1,1
```

```
        [3,3]((1,3,7),(3,10,21),(5,16,34)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(6,20,43),(3,10,21)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,15),(6,20,43),(4,14,29),(3,10,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,10,21),(6,20,43),(5,17,36)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,15),(6,20,43),(5,17,36)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,29),(3,10,21),(5,17,36)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,15),(4,14,29),(5,17,36)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,15),(1,3,7),(6,20,43)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,15),(4,14,31),(1,3,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,18),(4,14,31),(1,3,8),(1,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,8),(5,16,39),(1,3,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,16),(4,14,33),(5,16,39),(1,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,7),(5,16,39),(3,10,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(6,20,47),(3,10,24)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,16),(4,14,33),(6,20,47),(3,10,24)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,17,40),(6,20,47),(3,10,24)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,33),(5,17,40),(3,10,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,16),(4,14,33),(5,17,40)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,16),(5,17,40),(6,20,47)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(2,7,16),(6,20,47)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,16),(4,14,31),(1,3,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,18),(4,14,33),(1,3,8),(5,16,39)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,3,8),(7,23,57),(3,10,24),(5,16,39)); lvl=4; h,r-ind=1,3
          [3,3]((7,23,57),(4,13,32),(3,10,24)); lvl=5; h,r-ind=1,1
          [3,3]((5,16,39),(4,13,32),(3,10,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(7,23,57),(4,13,32)); lvl=5; h,r-ind=1,1
          [3,3]((5,16,39),(1,3,8),(4,13,32)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,17),(7,23,57),(3,10,24)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,3,8),(2,7,18),(2,7,17),(7,23,57)); lvl=4; h,r-ind=1,3
          [3,3]((3,10,25),(2,7,17),(2,7,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(3,10,25),(2,7,18)); lvl=5; h,r-ind=1,1
          [3,3]((7,23,57),(3,10,25),(2,7,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(7,23,57),(3,10,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,17),(3,10,24),(4,14,33)); lvl=4; h,r-ind=1,1
[3,3]((2,7,19),(2,7,18),(1,3,8)); lvl=1; h,r-ind=1,1
[4,3]((1,2,5),(2,6,9),(1,3,6),(1,0,0)); lvl=1; h,r-ind=3,3
  [3,3]((1,3,5),(1,2,3),(2,6,9)); lvl=2; h,r-ind=1,1
  [5,3]((3,6,11),(1,3,5),(4,7,13),(3,5,9),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,7),(3,5,9),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(1,3,5),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,11),(2,4,7),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(4,7,13),(3,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,11),(2,4,7),(4,7,13)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,2),(3,5,9),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,5,9),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,9),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,0,0),(2,3,5)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,4),(1,3,6),(3,6,11),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(1,3,5),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,9),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,6,11),(2,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,11),(2,5,9),(1,3,5)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,5),(1,2,4),(1,3,6)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,6),(1,2,4),(3,6,11),(4,7,13)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,17),(3,6,11),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(5,9,17),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,13),(5,9,17),(3,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(4,7,13),(5,9,17)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,5),(2,3,6),(1,2,4)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,6),(1,1,2),(4,7,13),(3,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,15),(3,5,9),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(5,8,15),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,13),(2,3,6),(5,8,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,13),(5,8,15),(3,5,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,5),(2,3,6),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,5),(1,1,2)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(2,6,9),(1,4,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,5),(2,6,9),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,3),(2,6,9),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,4,5),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,3,4)); lvl=2; h,r-ind=3,9; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,2,3),(2,5,5),(1,2,2),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(1,2,2),(2,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,6),(2,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,4),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,6),(1,2,2)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,2,2)); lvl=2; h,r-ind=1,1
```

```
[5,3]((2,6,9),(1,4,5),(1,3,6),(1,4,6),(2,7,13)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,13),(2,7,12),(1,4,6)); lvl=2; h,r-ind=1,1
  [4,3]((4,15,22),(2,7,11),(2,7,12),(1,4,6)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,7,11),(2,7,12),(3,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,12),(3,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((4,15,22),(1,4,6),(3,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((4,15,22),(2,7,11),(3,11,17)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,5),(4,15,22),(1,4,6)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,5),(1,3,5),(4,15,22),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(3,11,16),(2,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((4,15,22),(3,11,16),(2,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(4,15,22),(3,11,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(1,3,5),(3,11,16)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,5),(2,6,9),(1,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,5),(1,3,6),(2,7,11),(2,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,11),(2,7,12),(3,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(2,7,12),(3,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,6),(3,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,7,11),(3,10,17)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,6),(2,7,13),(2,7,12)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(2,7,18),(1,4,6),(2,7,13)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,7),(2,8,15),(4,14,31),(2,7,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,15),(4,14,31),(3,11,23)); lvl=3; h,r-ind=1,1
    [5,3]((2,7,15),(3,11,22),(9,34,66),(5,19,37),(3,11,23)); lvl=3; h,r-ind=1,1
      [4,3]((4,15,30),(7,26,52),(5,19,37),(8,30,59)); lvl=4; h,r-ind=1,1
        [3,3]((12,45,89),(8,30,59),(7,26,52)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,30),(12,45,89),(7,26,52)); lvl=5; h,r-ind=1,1
        [3,3]((5,19,37),(12,45,89),(8,30,59)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,30),(5,19,37),(12,45,89)); lvl=5; h,r-ind=1,1
      [3,3]((9,34,66),(5,19,37),(8,30,59)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,22),(9,34,66),(8,30,59)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,22),(7,26,52),(12,44,89),(8,30,59)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((10,37,74),(7,26,52),(12,44,89)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,22),(10,37,74),(12,44,89)); lvl=5; h,r-ind=1,1
        [3,3]((8,30,59),(10,37,74),(7,26,52)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,22),(8,30,59),(10,37,74)); lvl=5; h,r-ind=1,1
      [5,3]((2,7,15),(4,15,30),(3,11,23),(7,26,52),(12,44,89)); lvl=4; h,r-ind=1,1
        [3,3]((6,22,45),(2,7,15),(3,11,23)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,30),(6,22,45),(3,11,23)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,30),(13,48,97),(7,26,52)); lvl=5; h,r-ind=1,1
        [3,3]((15,55,112),(6,22,45),(2,7,15)); lvl=5; h,r-ind=1,1
        [3,3]((15,55,112),(9,33,67),(2,7,15)); lvl=5; h,r-ind=1,1
        [3,3]((9,33,67),(12,44,89),(2,7,15)); lvl=5; h,r-ind=1,1
        [3,3]((7,26,52),(9,33,67),(12,44,89)); lvl=5; h,r-ind=1,1
        [4,3]((13,48,97),(15,55,112),(7,26,52),(9,33,67)); lvl=5; h,r-ind=1,1
          [3,3]((15,55,112),(9,33,67),(22,81,164)); lvl=6; h,r-ind=1,1
          [3,3]((7,26,52),(9,33,67),(22,81,164)); lvl=6; h,r-ind=1,1
          [3,3]((13,48,97),(7,26,52),(22,81,164)); lvl=6; h,r-ind=1,1
          [3,3]((13,48,97),(15,55,112),(22,81,164)); lvl=6; h,r-ind=1,1
        [4,3]((4,15,30),(13,48,97),(15,55,112),(6,22,45)); lvl=5; h,r-ind=1,1
          [3,3]((19,70,142),(15,55,112),(13,48,97)); lvl=6; h,r-ind=1,1
          [3,3]((4,15,30),(19,70,142),(13,48,97)); lvl=6; h,r-ind=1,1
          [3,3]((6,22,45),(19,70,142),(15,55,112)); lvl=6; h,r-ind=1,1
          [3,3]((4,15,30),(6,22,45),(19,70,142)); lvl=6; h,r-ind=1,1
      [3,3]((3,11,22),(2,7,15),(12,44,89)); lvl=4; h,r-ind=1,1
    [3,3]((5,19,37),(2,8,15),(3,11,23)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,4,7),(9,34,66),(5,19,37),(2,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((6,23,44),(9,34,66),(5,19,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,15),(6,23,44),(5,19,37)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,8,15),(6,23,44)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(6,23,44),(9,34,66)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,15),(4,14,29),(3,11,22)); lvl=3; h,r-ind=1,1
    [5,3]((1,4,7),(2,7,13),(4,14,29),(3,11,22),(9,34,66)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,7),(2,7,13),(2,7,14),(7,26,50)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,11,21),(2,7,14),(2,7,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(3,11,21),(2,7,13)); lvl=5; h,r-ind=1,1
        [3,3]((7,26,50),(3,11,21),(2,7,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(7,26,50),(3,11,21)); lvl=5; h,r-ind=1,1
      [5,3]((5,18,36),(9,33,65),(10,37,72),(2,7,14),(7,26,50)); lvl=4; h,r-ind=1,1
        [3,3]((6,22,43),(7,26,50),(10,37,72)); lvl=5; h,r-ind=1,1
        [3,3]((9,33,65),(6,22,43),(10,37,72)); lvl=5; h,r-ind=1,1
        [3,3]((5,18,36),(9,33,65),(6,22,43)); lvl=5; h,r-ind=1,1
        [3,3]((6,22,43),(2,7,14),(7,26,50)); lvl=5; h,r-ind=1,1
        [3,3]((5,18,36),(6,22,43),(2,7,14)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,7),(10,37,72),(4,15,29),(7,26,50)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,29),(10,37,72),(11,41,79)); lvl=5; h,r-ind=1,1
        [3,3]((7,26,50),(10,37,72),(11,41,79)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(4,15,29),(11,41,79)); lvl=5; h,r-ind=1,1
        [3,3]((7,26,50),(1,4,7),(11,41,79)); lvl=5; h,r-ind=1,1
      [3,3]((4,14,29),(5,18,36),(2,7,14)); lvl=4; h,r-ind=1,1
```

```
        [4,3]((4,14,29),(5,18,36),(9,33,65),(3,11,22)); lvl=4; h,r-ind=1,1
          [3,3]((8,29,58),(5,18,36),(9,33,65)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,22),(8,29,58),(9,33,65)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,29),(8,29,58),(5,18,36)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,22),(4,14,29),(8,29,58)); lvl=5; h,r-ind=1,1
        [4,3]((9,33,65),(10,37,72),(4,15,29),(3,11,22)); lvl=4; h,r-ind=1,1
          [3,3]((10,37,72),(4,15,29),(13,48,94)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,22),(4,15,29),(13,48,94)); lvl=5; h,r-ind=1,1
          [3,3]((9,33,65),(10,37,72),(13,48,94)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,22),(9,33,65),(13,48,94)); lvl=5; h,r-ind=1,1
        [3,3]((9,34,66),(4,15,29),(3,11,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(9,34,66),(4,15,29)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(1,4,6),(2,7,13)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,7),(1,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,15),(1,4,9),(2,7,18),(4,14,31)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,8),(2,7,16),(4,14,33)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,8),(1,4,9),(2,7,18),(4,14,33)); lvl=3; h,r-ind=1,1
        [4,3]((2,7,17),(4,15,34),(1,4,9),(2,7,18)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,4,9),(4,15,34),(3,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,17),(4,15,34),(3,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,18),(1,4,9),(3,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,17),(2,7,18),(3,11,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(2,7,17),(4,15,34)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(2,7,17),(4,14,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(4,15,34),(1,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,23),(1,4,8),(2,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,31),(3,11,23),(2,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,15),(3,11,23),(1,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,8,15),(1,4,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,4,7),(2,8,15)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,19),(0,1,0),(2,7,18)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,4,5),(1,4,6)); lvl=1; h,r-ind=1,1
```

19.26 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,8,19)); lvl=0; h,r-ind=19,361
  [4,3]((1,0,0),(0,1,0),(1,4,5),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(1,3,4),(1,1,1),(2,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,4),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,7,9),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,9),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(1,2,2),(1,1,1),(3,7,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,4,5),(1,2,2),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(2,4,5),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(3,7,9),(2,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,5,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,4,5),(1,3,4),(2,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,8),(1,4,5),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,8),(2,7,7),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,7),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(2,7,7),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,8),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,3,3),(3,10,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,5),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,5,5),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,7,7),(1,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(2,7,8),(2,7,7),(1,4,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,4),(2,7,7),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(1,4,4),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,4,4),(2,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(0,1,0),(1,4,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,4),(1,3,6),(1,4,6),(1,4,5),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,5),(1,4,6),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,5),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,4,6),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,4,5),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,3,7),(2,7,16),(1,2,4),(1,3,6),(2,4,9)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,6),(2,7,16),(3,9,20)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,7),(2,7,16),(3,9,20)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,6),(4,11,24),(3,8,17),(3,9,20)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,17),(4,11,24),(9,25,54)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((3,9,20),(2,6,13),(4,11,24),(9,25,54)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,17,37),(9,25,54),(2,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,20),(6,17,37),(2,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,24),(6,17,37),(9,25,54)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,20),(4,11,24),(6,17,37)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,6),(2,6,13),(3,8,17),(9,25,54)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,13),(9,25,54),(5,14,30)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,17),(9,25,54),(5,14,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(2,6,13),(5,14,30)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,17),(1,3,6),(5,14,30)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,7),(2,5,11),(4,11,24),(3,9,20)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,11),(4,11,24),(5,14,31)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,20),(4,11,24),(5,14,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(3,9,20),(5,14,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,11),(5,14,31)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(2,4,9),(2,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,11),(4,11,24),(3,8,17),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((5,13,28),(3,8,17),(4,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(5,13,28),(4,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,11),(5,13,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(5,13,28),(3,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(2,5,11),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(3,8,17),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,7),(2,4,9)); lvl=1; h,r-ind=1,1
  [3,3]((2,8,19),(1,3,7),(2,7,16)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,8,19),(1,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,4),(2,4,9)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,4,9),(2,7,16),(1,3,6),(1,4,6)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,6),(2,7,15),(2,7,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,9),(2,8,15),(2,7,15),(2,7,14)); lvl=2; h,r-ind=1,1
      [3,3]((5,18,37),(2,7,14),(2,7,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,9),(1,4,8),(5,18,37),(2,7,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,8),(5,18,37),(3,11,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,15),(5,18,37),(3,11,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(1,4,8),(3,11,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,15),(1,4,9),(3,11,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(5,18,37),(2,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(2,8,15),(2,7,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(2,8,15),(1,3,6),(2,7,14)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,7),(2,8,15),(2,7,14),(4,14,27)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,14),(2,8,15),(3,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,8,15),(3,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,27),(1,4,7),(3,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,27),(2,7,14),(3,11,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,14),(4,14,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,7),(4,14,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,6),(1,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,16),(1,3,6),(2,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,9),(2,7,16),(2,7,15)); lvl=2; h,r-ind=1,1
  [3,3]((2,8,19),(1,4,9),(2,7,16)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,6),(0,1,0),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,9),(1,4,6),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,8,19),(1,4,9),(0,1,0)); lvl=1; h,r-ind=1,1
```

19.27 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,9,19)); lvl=0; h,r-ind=19,361
  [4,3]((1,4,5),(2,9,11),(2,9,18),(2,5,10)); lvl=1; h,r-ind=1,1
    [4,3]((2,8,13),(1,4,8),(2,9,18),(4,18,29)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,7),(1,4,8),(2,9,18),(2,9,16)); lvl=3; h,r-ind=1,1
        [4,3]((1,4,8),(4,17,32),(2,9,17),(2,9,18)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,13,25),(4,17,32),(2,9,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,18),(3,13,25),(2,9,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,8),(2,9,18),(3,13,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,8),(3,13,25),(4,17,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(1,4,8),(4,17,32)); lvl=4; h,r-ind=1,1
        [4,3]((2,9,16),(1,4,7),(4,17,32),(2,9,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,13,24),(4,17,32),(1,4,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,16),(3,13,24),(1,4,7)); lvl=5; h,r-ind=1,1
          [3,3]((3,13,24),(2,9,17),(4,17,32)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,16),(3,13,24),(2,9,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,7),(2,9,15),(2,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,21),(1,4,7),(2,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,18,29),(3,13,21),(2,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,21),(1,4,7),(2,8,13)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,11),(1,4,6),(2,8,13),(4,18,29)); lvl=2; h,r-ind=1,1
      [4,3]((6,25,39),(11,46,71),(1,4,6),(2,8,13)); lvl=3; h,r-ind=1,1
```

```
  [3,3]((7,29,45),(1,4,6),(11,46,71)); lvl=4; h,r-ind=1,1
  [3,3]((6,25,39),(7,29,45),(11,46,71)); lvl=4; h,r-ind=1,1
  [3,3]((6,25,39),(2,8,13),(7,29,45)); lvl=4; h,r-ind=1,1
  [3,3]((2,8,13),(7,29,45),(1,4,6)); lvl=4; h,r-ind=1,1
[3,3]((3,13,21),(6,25,39),(2,8,13)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[5,3]((2,9,11),(2,9,13),(11,46,71),(4,17,26),(1,4,6)); lvl=3; h,r-ind=1,1
  [3,3]((4,17,26),(11,46,71),(5,21,32)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,6),(11,46,71),(5,21,32)); lvl=4; h,r-ind=1,1
  [4,3]((7,30,45),(8,34,51),(4,17,26),(5,21,32)); lvl=4; h,r-ind=1,1
    [3,3]((8,34,51),(5,21,32),(12,51,77)); lvl=5; h,r-ind=1,1
    [3,3]((4,17,26),(5,21,32),(12,51,77)); lvl=5; h,r-ind=1,1
    [3,3]((7,30,45),(4,17,26),(12,51,77)); lvl=5; h,r-ind=1,1
    [3,3]((7,30,45),(8,34,51),(12,51,77)); lvl=5; h,r-ind=1,1
  [4,3]((1,4,6),(4,17,25),(8,34,51),(5,21,32)); lvl=4; h,r-ind=1,1
    [3,3]((4,17,25),(8,34,51),(9,38,57)); lvl=5; h,r-ind=1,1
    [3,3]((5,21,32),(8,34,51),(9,38,57)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,6),(4,17,25),(9,38,57)); lvl=5; h,r-ind=1,1
    [3,3]((5,21,32),(1,4,6),(9,38,57)); lvl=5; h,r-ind=1,1
  [4,3]((2,9,11),(2,9,12),(1,4,6),(4,17,25)); lvl=4; h,r-ind=1,2; alert-r-inc
    [3,3]((3,13,18),(2,9,12),(4,17,25)); lvl=5; h,r-ind=1,1
    [3,3]((3,13,18),(1,4,6),(4,17,25)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,11),(3,13,18),(1,4,6)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,11),(3,13,18),(2,9,12)); lvl=5; h,r-ind=1,1
  [4,3]((2,9,13),(7,30,45),(4,17,25),(8,34,51)); lvl=4; h,r-ind=1,1
    [4,3]((3,13,19),(18,77,115),(8,34,51),(4,17,25)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((11,47,70),(18,77,115),(8,34,51)); lvl=6; h,r-ind=1,1
      [3,3]((4,17,25),(11,47,70),(8,34,51)); lvl=6; h,r-ind=1,1
      [3,3]((3,13,19),(4,17,25),(11,47,70)); lvl=6; h,r-ind=1,1
      [3,3]((3,13,19),(11,47,70),(18,77,115)); lvl=6; h,r-ind=1,1
    [3,3]((7,30,45),(18,77,115),(8,34,51)); lvl=5; h,r-ind=1,1
    [4,3]((3,13,19),(2,9,13),(7,30,45),(18,77,115)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((10,43,64),(7,30,45),(2,9,13)); lvl=6; h,r-ind=1,1
      [3,3]((3,13,19),(10,43,64),(2,9,13)); lvl=6; h,r-ind=1,1
      [3,3]((18,77,115),(10,43,64),(7,30,45)); lvl=6; h,r-ind=1,1
      [3,3]((3,13,19),(18,77,115),(10,43,64)); lvl=6; h,r-ind=1,1
  [3,3]((2,9,13),(2,9,12),(4,17,25)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,9,13),(7,30,45),(4,17,26)); lvl=4; h,r-ind=1,1
[5,3]((2,9,14),(3,13,21),(6,25,39),(11,46,71),(4,17,26)); lvl=3; h,r-ind=1,1
  [5,3]((2,9,14),(3,13,20),(9,38,60),(8,34,53),(3,13,21)); lvl=4; h,r-ind=1,1
    [4,3]((4,17,27),(15,64,100),(3,13,20),(9,39,61)); lvl=5; h,r-ind=1,1
      [3,3]((7,30,47),(3,13,20),(15,64,100)); lvl=6; h,r-ind=1,1
      [3,3]((4,17,27),(7,30,47),(15,64,100)); lvl=6; h,r-ind=1,1
      [3,3]((9,39,61),(7,30,47),(3,13,20)); lvl=6; h,r-ind=1,1
      [3,3]((4,17,27),(9,39,61),(7,30,47)); lvl=6; h,r-ind=1,1
    [3,3]((2,9,14),(3,13,20),(9,39,61)); lvl=5; h,r-ind=1,1
    [4,3]((2,9,14),(3,13,21),(4,17,27),(9,39,61)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((4,17,27),(6,26,41),(3,13,21)); lvl=6; h,r-ind=1,1
      [3,3]((2,9,14),(6,26,41),(3,13,21)); lvl=6; h,r-ind=1,1
      [3,3]((9,39,61),(2,9,14),(6,26,41)); lvl=6; h,r-ind=1,1
      [3,3]((9,39,61),(4,17,27),(6,26,41)); lvl=6; h,r-ind=1,1
    [3,3]((8,34,53),(15,64,100),(3,13,20)); lvl=5; h,r-ind=1,1
    [4,3]((8,34,53),(4,17,27),(15,64,100),(9,38,60)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((12,51,80),(4,17,27),(15,64,100)); lvl=6; h,r-ind=1,1
      [3,3]((8,34,53),(12,51,80),(15,64,100)); lvl=6; h,r-ind=1,1
      [3,3]((9,38,60),(12,51,80),(4,17,27)); lvl=6; h,r-ind=1,1
      [3,3]((8,34,53),(9,38,60),(12,51,80)); lvl=6; h,r-ind=1,1
  [4,3]((9,38,60),(10,42,65),(8,34,53),(6,25,39)); lvl=4; h,r-ind=1,1
    [4,3]((5,21,33),(6,25,39),(10,42,65),(9,38,59)); lvl=5; h,r-ind=1,1
      [3,3]((15,63,98),(10,42,65),(6,25,39)); lvl=6; h,r-ind=1,1
      [3,3]((5,21,33),(15,63,98),(6,25,39)); lvl=6; h,r-ind=1,1
      [3,3]((9,38,59),(15,63,98),(10,42,65)); lvl=6; h,r-ind=1,1
      [3,3]((5,21,33),(9,38,59),(15,63,98)); lvl=6; h,r-ind=1,1
    [3,3]((5,21,33),(8,34,53),(9,38,59)); lvl=5; h,r-ind=1,1
    [3,3]((5,21,33),(9,38,60),(8,34,53)); lvl=5; h,r-ind=1,1
  [3,3]((10,42,65),(6,25,39),(11,46,71)); lvl=4; h,r-ind=1,1
  [3,3]((4,17,26),(10,42,65),(11,46,71)); lvl=4; h,r-ind=1,1
  [4,3]((3,13,20),(4,17,26),(10,42,65),(8,34,53)); lvl=4; h,r-ind=1,1
    [4,3]((16,68,105),(9,38,59),(10,42,65),(4,17,26)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((13,55,85),(9,38,59),(10,42,65)); lvl=6; h,r-ind=1,1
      [3,3]((13,55,85),(4,17,26),(10,42,65)); lvl=6; h,r-ind=1,1
      [3,3]((16,68,105),(13,55,85),(4,17,26)); lvl=6; h,r-ind=1,1
      [3,3]((16,68,105),(13,55,85),(9,38,59)); lvl=6; h,r-ind=1,1
    [3,3]((3,13,20),(16,68,105),(4,17,26)); lvl=5; h,r-ind=1,1
    [4,3]((3,13,20),(16,68,105),(8,34,53),(9,38,59)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((12,51,79),(9,38,59),(16,68,105)); lvl=6; h,r-ind=1,1
      [3,3]((3,13,20),(12,51,79),(16,68,105)); lvl=6; h,r-ind=1,1
      [3,3]((8,34,53),(12,51,79),(9,38,59)); lvl=6; h,r-ind=1,1
      [3,3]((3,13,20),(8,34,53),(12,51,79)); lvl=6; h,r-ind=1,1
[3,3]((2,9,13),(2,9,14),(4,17,26)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[3,3]((4,18,29),(2,9,14),(3,13,21)); lvl=3; h,r-ind=1,1
```

```
  [3,3]((1,4,5),(2,9,11),(1,4,6)); lvl=2; h,r-ind=1,1
  [5,3]((2,8,13),(1,4,8),(4,15,25),(2,7,14),(2,7,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,7),(5,18,34),(2,7,13),(3,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,34),(2,7,13),(3,11,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,19),(2,7,13),(3,11,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,11,19),(3,11,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(5,18,34),(3,11,20)); lvl=4; h,r-ind=1,1
    [4,3]((2,8,13),(1,4,7),(4,15,25),(3,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,19),(1,4,7),(5,19,32)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,13),(1,4,7),(5,19,32)); lvl=4; h,r-ind=1,1
      [3,3]((4,15,25),(2,8,13),(5,19,32)); lvl=4; h,r-ind=1,1
      [3,3]((4,15,25),(3,11,19),(5,19,32)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,14),(5,18,34),(2,7,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,7),(1,4,8),(2,7,14),(5,18,34)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,4,8),(3,11,21),(2,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((5,18,34),(3,11,21),(2,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(5,18,34),(3,11,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(1,4,8),(3,11,21)); lvl=4; h,r-ind=1,1
  [4,3]((3,11,18),(1,4,6),(2,8,13),(4,15,25)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(2,8,13),(5,19,31)); lvl=3; h,r-ind=1,1
    [3,3]((4,15,25),(2,8,13),(5,19,31)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,18),(1,4,6),(5,19,31)); lvl=3; h,r-ind=1,1
    [3,3]((4,15,25),(3,11,18),(5,19,31)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,5),(1,3,5),(3,11,18),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(2,7,11),(3,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,11),(3,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,6),(2,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(1,3,5),(2,7,11)); lvl=3; h,r-ind=1,1
  [5,3]((1,3,6),(1,3,5),(3,11,18),(4,15,25),(2,7,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,12),(3,11,18),(4,15,25)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,19),(2,7,12),(4,15,25)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,13),(3,11,19),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(2,7,13),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,6),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,7,12),(3,11,18)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,10),(1,3,6),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,6),(2,7,14),(2,7,13)); lvl=2; h,r-ind=1,1
[3,3]((2,9,19),(2,9,18),(2,5,10)); lvl=1; h,r-ind=8,8; optimized-h
[5,3]((1,1,2),(2,2,3),(1,4,5),(2,8,9),(2,5,10)); lvl=1; h,r-ind=3,1
  [4,3]((2,5,7),(2,2,3),(1,2,3),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(5,11,15),(2,2,3),(4,7,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((2,3,4),(3,6,8),(7,13,18)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,3),(5,11,15),(3,6,8),(7,13,18)); lvl=4; h,r-ind=1,3
        [3,3]((4,8,11),(5,11,15),(3,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((7,13,18),(4,8,11),(3,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(7,13,18),(4,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(4,8,11),(5,11,15)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,3),(2,2,3),(2,3,4),(7,13,18)); lvl=4; h,r-ind=1,3
        [3,3]((3,5,7),(2,3,4),(2,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(3,5,7),(2,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((7,13,18),(3,5,7),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(7,13,18),(3,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((4,7,9),(2,3,4),(3,6,8)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,6),(5,11,15),(4,7,9)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,5,7),(1,2,3),(5,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,5,7),(5,11,15)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,3,4),(2,5,7),(2,8,9),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((5,14,18),(4,13,15),(2,5,6)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,5,7),(5,14,18),(2,5,6)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,4),(2,5,7),(5,14,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(2,8,9),(5,14,18),(4,13,15)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,9,11),(2,7,8),(7,22,27)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,3,4),(2,8,9),(2,7,8),(7,22,27)); lvl=4; h,r-ind=1,3
        [3,3]((3,10,12),(2,8,9),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((7,22,27),(3,10,12),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(7,22,27),(3,10,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(3,10,12),(2,8,9)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,4),(5,14,18),(3,9,11),(7,22,27)); lvl=4; h,r-ind=1,3
        [3,3]((4,12,15),(3,9,11),(5,14,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(4,12,15),(5,14,18)); lvl=5; h,r-ind=1,1
        [3,3]((7,22,27),(4,12,15),(3,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(7,22,27),(4,12,15)); lvl=5; h,r-ind=1,1
      [3,3]((4,13,15),(3,9,11),(2,7,8)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,4),(2,8,9),(1,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,4),(3,8,12),(1,3,5),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(2,6,9),(3,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,9),(3,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,5),(2,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(1,3,5),(2,6,9)); lvl=3; h,r-ind=1,1
  [4,3]((3,7,11),(4,10,15),(2,5,7),(1,2,3)); lvl=2; h,r-ind=1,1
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      [3,3]((2,5,7),(4,10,15),(5,12,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,11),(4,10,15),(5,12,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,11),(5,12,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(5,12,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(1,2,4),(3,7,11),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,7),(1,2,4),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(1,2,3),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,4,7),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,4,7),(1,2,4)); lvl=3; h,r-ind=1,1
    [5,3]((1,2,4),(3,7,11),(3,8,12),(4,10,15),(1,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,8),(4,10,15),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,8),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(4,10,15),(3,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(1,3,5),(3,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,8),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,10),(1,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(3,8,12),(4,10,15),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,12),(4,10,15),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(4,10,15),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,12),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(1,3,4),(5,13,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,19),(1,1,2),(2,5,10)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((2,9,19),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,9,11),(1,5,5),(2,9,18)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,6),(1,5,5),(2,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(1,5,7),(4,18,29),(2,9,11)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,7),(4,18,29),(2,9,14)); lvl=3; h,r-ind=1,1
      [4,3]((6,29,39),(2,9,13),(1,5,7),(2,9,14)); lvl=3; h,r-ind=1,1
        [3,3]((3,14,20),(2,9,13),(2,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(3,14,20),(2,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(8,38,53),(3,14,20)); lvl=4; h,r-ind=1,1
        [4,3]((4,19,26),(8,38,53),(3,14,20),(2,9,13)); lvl=4; h,r-ind=1,1
          [3,3]((7,33,46),(3,14,20),(8,38,53)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,26),(7,33,46),(8,38,53)); lvl=5; h,r-ind=1,1
          [3,3]((7,33,46),(2,9,13),(3,14,20)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,26),(7,33,46),(2,9,13)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,7),(6,29,39),(4,19,26),(8,38,53)); lvl=4; h,r-ind=1,1
          [3,3]((5,24,33),(6,29,39),(4,19,26)); lvl=5; h,r-ind=1,1
          [3,3]((8,38,53),(5,24,33),(4,19,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(8,38,53),(5,24,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(5,24,33),(6,29,39)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,6),(6,29,39),(1,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,6),(6,29,39),(2,9,11),(2,9,13)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [3,3]((2,9,13),(4,19,25),(2,9,12)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,5,6),(2,9,11),(4,19,25),(2,9,12)); lvl=4; h,r-ind=1,2
          [3,3]((2,9,11),(3,14,18),(2,9,12)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,25),(3,14,18),(2,9,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(4,19,25),(3,14,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(2,9,11),(3,14,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,13),(4,19,26),(4,19,25)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,5,6),(6,29,39),(4,19,26),(4,19,25)); lvl=4; h,r-ind=1,2
          [3,3]((5,24,32),(6,29,39),(4,19,26)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,25),(5,24,32),(4,19,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(4,19,25),(5,24,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(5,24,32),(6,29,39)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,6),(1,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,7),(1,5,9),(2,9,18),(4,18,29)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,9),(1,5,8),(2,9,18),(2,9,16)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,8),(4,19,34),(2,9,16),(2,9,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,25),(2,9,16),(2,9,17)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,34),(3,14,25),(2,9,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,8),(4,19,34),(3,14,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,8),(3,14,25),(2,9,16)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,9),(4,19,34),(2,9,18),(2,9,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,18),(3,14,26),(2,9,17)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,34),(3,14,26),(2,9,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(2,9,18),(3,14,26)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,34),(1,5,9),(3,14,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(1,5,8),(4,19,34)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,7),(2,9,15),(1,5,8),(2,9,16)); lvl=3; h,r-ind=1,1
        [3,3]((2,9,15),(2,9,16),(3,14,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(2,9,16),(3,14,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(1,5,8),(3,14,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(2,9,15),(3,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(4,18,29),(2,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,7),(1,5,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,5,6),(1,5,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,19),(0,1,0),(2,9,18)); lvl=1; h,r-ind=2,2; optimized-h
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  [4,3]((1,4,5),(2,8,9),(2,9,11),(1,5,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,8,9),(2,9,10),(1,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,11),(2,9,10),(1,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,8,9),(2,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,9,11),(2,9,10)); lvl=2; h,r-ind=1,1
  [5,3]((0,1,0),(1,0,0),(2,2,3),(2,8,9),(1,5,5)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,5),(2,5,6),(2,8,9),(1,4,4)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((1,3,3),(1,4,4),(2,8,9),(4,13,15)); lvl=3; h,r-ind=1,1
        [4,3]((2,7,8),(1,4,4),(2,8,9),(4,14,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,4,4),(2,8,9),(3,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(2,8,9),(3,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,15),(1,4,4),(3,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(4,14,15),(3,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(4,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(4,13,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,4,4),(4,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,6),(4,13,15)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((2,5,5),(1,3,3),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,5),(2,8,9),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,5),(1,4,4)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,1,1),(2,5,5),(2,2,3),(2,5,6)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((2,5,6),(1,2,2),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,9),(2,5,6),(1,2,2)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((1,1,1),(2,2,3),(4,7,9),(1,2,2)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(4,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,7),(1,2,2),(2,3,4)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,1),(4,6,7),(2,2,3),(2,3,4)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,5),(2,3,4),(4,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(3,4,5),(4,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(4,6,7),(1,2,2)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,5,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
```

19.28 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,10,19)); lvl=0; h,r-ind=19,361
  [3,3]((1,5,9),(1,3,5),(1,5,5)); lvl=1; h,r-ind=8,4; optimized-h
  [3,3]((0,1,0),(1,5,9),(1,5,5)); lvl=1; h,r-ind=4,4; optimized-h
  [4,3]((1,0,0),(2,5,9),(1,3,5),(1,5,5)); lvl=1; h,r-ind=2,2
    [3,3]((1,3,5),(2,5,9),(4,10,17)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,5),(5,12,20),(2,5,9),(4,10,17)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,12),(2,5,9),(4,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,20),(3,7,12),(4,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,20),(7,15,25),(3,7,12)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((3,7,12),(2,4,7),(2,5,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,5),(7,15,25),(3,7,12),(2,4,7)); lvl=3; h,r-ind=1,1
        [3,3]((3,6,10),(3,7,12),(7,15,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,10),(8,17,29),(3,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,7),(8,17,29),(3,7,12)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,5),(3,6,10),(2,4,7),(8,17,29)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,6,10),(5,10,17),(8,17,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,7),(5,10,17),(8,17,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,5),(2,4,7),(5,10,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,5),(3,6,10),(5,10,17)); lvl=5; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,5),(2,5,9)); lvl=2; h,r-ind=2,2; optimized-h
    [4,3]((5,12,20),(2,5,8),(1,3,5),(4,10,17)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,8),(1,3,5),(6,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,17),(1,3,5),(6,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,20),(2,5,8),(6,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,17),(5,12,20),(6,15,25)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,5),(2,5,7),(5,12,20),(2,5,8)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,3),(2,5,7),(10,23,37),(2,5,8)); lvl=3; h,r-ind=1,4; alert-r-inc
        [3,3]((2,5,7),(3,7,11),(2,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((10,23,37),(3,7,11),(2,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(10,23,37),(3,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,5,7),(3,7,11)); lvl=4; h,r-ind=1,1
      [4,3]((5,12,20),(7,16,26),(10,23,37),(2,5,8)); lvl=3; h,r-ind=1,1
        [3,3]((9,21,34),(7,16,26),(10,23,37)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(9,21,34),(10,23,37)); lvl=4; h,r-ind=1,1
        [4,3]((6,14,23),(9,21,34),(17,40,65),(7,16,26)); lvl=4; h,r-ind=1,1
          [3,3]((17,40,65),(15,35,57),(9,21,34)); lvl=5; h,r-ind=1,1
          [3,3]((7,16,26),(15,35,57),(9,21,34)); lvl=5; h,r-ind=1,1
          [3,3]((6,14,23),(7,16,26),(15,35,57)); lvl=5; h,r-ind=1,1
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          [3,3]((6,14,23),(17,40,65),(15,35,57)); lvl=5; h,r-ind=1,1
        [4,3]((2,5,8),(5,12,20),(6,14,23),(17,40,65)); lvl=4; h,r-ind=1,1
          [3,3]((6,14,23),(5,12,20),(8,19,31)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,8),(5,12,20),(8,19,31)); lvl=5; h,r-ind=1,1
          [3,3]((17,40,65),(6,14,23),(8,19,31)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,8),(17,40,65),(8,19,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,8),(9,21,34),(17,40,65)); lvl=4; h,r-ind=1,1
      [4,3]((7,16,26),(5,11,18),(1,2,3),(10,23,37)); lvl=3; h,r-ind=1,1
        [3,3]((8,18,29),(1,2,3),(5,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,26),(8,18,29),(5,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,26),(8,18,29),(10,23,37)); lvl=4; h,r-ind=1,1
        [3,3]((8,18,29),(10,23,37),(1,2,3)); lvl=4; h,r-ind=1,1
      [4,3]((5,12,20),(7,15,25),(7,16,26),(5,11,18)); lvl=3; h,r-ind=1,1
        [4,3]((4,9,15),(7,15,25),(5,11,18),(20,45,74)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((9,20,33),(5,11,18),(7,15,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,15),(9,20,33),(7,15,25)); lvl=5; h,r-ind=1,1
          [3,3]((20,45,74),(9,20,33),(5,11,18)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,15),(20,45,74),(9,20,33)); lvl=5; h,r-ind=1,1
        [4,3]((7,16,26),(11,25,41),(5,11,18),(20,45,74)); lvl=4; h,r-ind=1,1
          [3,3]((11,25,41),(20,45,74),(16,36,59)); lvl=5; h,r-ind=1,1
          [3,3]((5,11,18),(20,45,74),(16,36,59)); lvl=5; h,r-ind=1,1
          [3,3]((7,16,26),(11,25,41),(16,36,59)); lvl=5; h,r-ind=1,1
          [3,3]((5,11,18),(7,16,26),(16,36,59)); lvl=5; h,r-ind=1,1
        [4,3]((4,9,15),(6,14,23),(11,25,41),(20,45,74)); lvl=4; h,r-ind=1,1
          [3,3]((15,34,56),(6,14,23),(11,25,41)); lvl=5; h,r-ind=1,1
          [3,3]((20,45,74),(15,34,56),(11,25,41)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,15),(20,45,74),(15,34,56)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,15),(15,34,56),(6,14,23)); lvl=5; h,r-ind=1,1
        [3,3]((6,14,23),(7,16,26),(11,25,41)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,20),(4,9,15),(6,14,23)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,5),(7,15,25),(5,11,18),(1,2,3)); lvl=3; h,r-ind=1,1
        [4,3]((3,6,10),(9,19,31),(5,11,18),(7,15,25)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((8,17,28),(9,19,31),(5,11,18)); lvl=5; h,r-ind=1,1
          [3,3]((7,15,25),(8,17,28),(5,11,18)); lvl=5; h,r-ind=1,1
          [3,3]((3,6,10),(7,15,25),(8,17,28)); lvl=5; h,r-ind=1,1
          [3,3]((3,6,10),(8,17,28),(9,19,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(9,19,31),(5,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,10),(1,2,3),(9,19,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,10),(2,3,5),(1,2,3)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(2,5,5),(2,3,5),(2,5,7)); lvl=2; h,r-ind=2,2
      [3,3]((1,2,2),(2,5,5),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,2,3),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,3,3),(1,2,3)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,0,0),(2,3,5),(1,2,3)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,7),(2,5,8),(1,4,5),(1,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,8),(4,11,17)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,7),(1,3,4),(2,5,8),(4,11,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,12),(4,11,17),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,7),(3,8,12),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,12),(2,5,8),(4,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,7),(3,8,12),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,5),(4,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,5),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,5),(2,5,7),(1,5,5),(1,4,5)); lvl=2; h,r-ind=1,1
      [4,3]((2,7,7),(1,5,5),(1,3,4),(1,4,5)); lvl=3; h,r-ind=1,1
        [4,3]((1,4,4),(3,11,13),(1,4,5),(1,5,5)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,8,9),(3,11,13),(1,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(2,8,9),(1,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(1,5,5),(2,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(2,8,9),(3,11,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,4),(3,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,7),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,11,13),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(2,5,7),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(2,5,5),(1,3,3)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,0,0),(1,5,5)); lvl=1; h,r-ind=5,5; optimized-h
[5,3]((3,14,26),(1,5,9),(2,5,9),(1,3,5),(2,8,15)); lvl=1; h,r-ind=1,1
  [4,3]((1,5,9),(1,4,7),(3,11,20),(3,13,24)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,7),(5,21,38),(3,11,20),(3,12,22)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,16,29),(5,21,38),(3,12,22)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,20),(4,16,29),(3,12,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,11,20),(4,16,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(4,16,29),(5,21,38)); lvl=4; h,r-ind=1,1
    [4,3]((3,13,24),(1,5,9),(5,21,38),(3,12,22)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,9),(5,21,38),(4,17,31)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,22),(5,21,38),(4,17,31)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((3,13,24),(1,5,9),(4,17,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,12,22),(3,13,24),(4,17,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(1,4,7),(5,21,38)); lvl=3; h,r-ind=1,1
    [4,3]((2,8,15),(4,13,24),(3,11,20),(3,13,24)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,13),(4,13,24),(3,11,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,22),(2,7,13),(3,11,20)); lvl=3; h,r-ind=1,1
      [4,3]((2,8,15),(3,13,24),(3,12,22),(2,7,13)); lvl=3; h,r-ind=1,1
        [3,3]((5,20,37),(3,12,22),(3,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,15),(5,20,37),(3,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,13),(2,8,15),(5,20,37)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,13),(5,20,37),(3,12,22)); lvl=4; h,r-ind=1,1
    [3,3]((3,14,26),(2,8,15),(3,13,24)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,26),(1,5,9),(3,13,24)); lvl=2; h,r-ind=1,1
    [5,3]((4,13,24),(1,3,5),(2,5,9),(1,4,7),(3,11,20)); lvl=2; h,r-ind=1,1
      [4,3]((6,21,38),(3,11,20),(2,6,11),(4,13,24)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,20),(4,13,24),(5,17,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,11),(4,13,24),(5,17,31)); lvl=4; h,r-ind=1,1
        [3,3]((6,21,38),(3,11,20),(5,17,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,11),(6,21,38),(5,17,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(6,21,38),(3,11,20)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,7),(4,13,23),(6,21,38),(2,6,11)); lvl=3; h,r-ind=1,1
        [3,3]((3,10,18),(4,13,23),(2,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((6,21,38),(3,10,18),(2,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(3,10,18),(4,13,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(6,21,38),(3,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,4,7),(4,13,23)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,5),(4,13,23),(2,6,11),(2,5,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,13,23),(3,9,16),(2,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(3,9,16),(2,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,13,23),(3,9,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(1,3,5),(3,9,16)); lvl=4; h,r-ind=1,1
  [3,3]((2,10,19),(3,14,26),(1,5,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,10,19),(1,5,9)); lvl=1; h,r-ind=1,1
  [3,3]((2,10,19),(3,14,26),(2,8,15)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(2,5,9),(2,8,15)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,10,19),(1,0,0),(2,8,15)); lvl=1; h,r-ind=2,2; optimized-h
```

19.29 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,11,19)); lvl=0; h,r-ind=19,361
  [7,3]((2,8,13),(1,5,8),(3,12,20),(3,13,22),(2,10,17),(3,16,27),(5,27,45)); lvl=1; h,r-ind=1,1
    [3,3]((2,9,15),(2,10,17),(3,13,22)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,15),(3,12,20),(3,13,22)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,13),(2,9,15),(3,12,20)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,8),(2,8,13),(2,9,15)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,15),(2,10,17),(8,41,69),(3,15,25)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,25,42),(2,10,17),(8,41,69)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,25),(5,25,42),(8,41,69)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,15),(5,25,42),(2,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,25),(2,9,15),(5,25,42)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,17),(3,16,27),(8,41,69)); lvl=2; h,r-ind=1,1
    [4,3]((3,16,27),(8,41,69),(3,15,25),(4,21,35)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,31,52),(3,15,25),(8,41,69)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,27),(6,31,52),(8,41,69)); lvl=3; h,r-ind=1,1
      [3,3]((4,21,35),(6,31,52),(3,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,27),(4,21,35),(6,31,52)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(3,15,25),(4,21,35)); lvl=2; h,r-ind=1,1
    [3,3]((5,27,45),(3,16,27),(4,21,35)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,8),(5,27,45),(4,21,35)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,8),(2,9,15),(3,15,25)); lvl=2; h,r-ind=1,1
  [3,3]((2,11,19),(3,16,27),(5,27,45)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,11,19),(5,27,45)); lvl=1; h,r-ind=5,5; optimized-h
  [4,3]((0,1,0),(1,5,5),(1,5,8),(5,27,45)); lvl=1; h,r-ind=1,2
    [4,3]((3,16,21),(3,16,24),(2,10,13),(1,5,8)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((3,16,24),(6,32,45),(1,5,8),(1,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((5,26,38),(1,5,7),(1,5,8)); lvl=4; h,r-ind=1,1
        [4,3]((3,16,24),(3,16,23),(5,26,38),(1,5,8)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,21,31),(3,16,23),(5,26,38)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,31),(1,5,8),(5,26,38)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,24),(4,21,31),(1,5,8)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,24),(4,21,31),(3,16,23)); lvl=5; h,r-ind=1,1
        [3,3]((3,16,23),(5,26,38),(1,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((6,32,45),(3,16,23),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,21),(6,32,45),(1,5,7)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((3,16,21),(2,10,13),(1,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,18),(3,17,27),(3,16,24),(1,5,8)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,8),(3,16,24),(2,11,17)); lvl=3; h,r-ind=1,1
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    [3,3]((1,5,8),(5,27,43),(2,11,17)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,18),(3,17,27),(5,27,43),(2,11,17)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,17,27),(4,22,35),(2,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,27,43),(4,22,35),(2,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,18),(3,17,27),(4,22,35)); lvl=4; h,r-ind=1,1
      [3,3]((5,27,43),(2,11,18),(4,22,35)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(2,11,18),(5,27,43)); lvl=3; h,r-ind=1,1
  [3,3]((5,27,45),(2,11,18),(1,5,8)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(3,16,21),(1,5,5),(2,10,13)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((3,16,21),(3,17,21),(1,5,6),(2,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(1,5,6),(3,17,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,14),(5,26,33),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,13),(5,26,33),(1,5,6)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,14),(3,16,21),(2,10,13),(5,26,33)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,10,13),(4,21,27),(3,16,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,14),(4,21,27),(3,16,21)); lvl=5; h,r-ind=1,1
        [3,3]((5,26,33),(2,10,13),(4,21,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,14),(5,26,33),(4,21,27)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(3,17,21),(1,5,6)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,5,5),(1,5,6)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(3,16,21),(3,17,27),(3,16,24)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc
    [4,3]((3,17,24),(2,11,17),(3,16,24),(6,32,45)); lvl=3; h,r-ind=3,3
      [3,3]((2,11,16),(3,16,24),(2,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,24),(2,11,16),(2,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,16),(3,16,23),(3,16,24)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,16),(6,32,45),(9,49,69),(3,16,23)); lvl=4; h,r-ind=1,1
        [4,3]((3,16,23),(10,54,77),(5,27,38),(6,32,45)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((10,54,77),(5,27,38),(8,43,61)); lvl=6; h,r-ind=1,1
          [3,3]((6,32,45),(5,27,38),(8,43,61)); lvl=6; h,r-ind=1,1
          [3,3]((3,16,23),(6,32,45),(8,43,61)); lvl=6; h,r-ind=1,1
          [3,3]((3,16,23),(10,54,77),(8,43,61)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,16),(3,16,23),(10,54,77)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,16),(10,54,77),(5,27,38)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,16),(9,49,69),(5,27,38)); lvl=5; h,r-ind=1,1
      [3,3]((3,17,24),(2,11,16),(9,49,69)); lvl=4; h,r-ind=3,3; optimized-h
    [4,3]((3,17,21),(3,17,24),(3,16,21),(6,32,45)); lvl=3; h,r-ind=9,3
      [4,3]((6,32,45),(9,49,69),(2,11,15),(3,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,15),(5,27,38),(9,49,69)); lvl=5; h,r-ind=1,1
        [3,3]((10,54,75),(2,11,15),(5,27,38)); lvl=5; h,r-ind=1,1
        [4,3]((6,32,45),(10,54,75),(3,16,22),(5,27,38)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((8,43,60),(3,16,22),(10,54,75)); lvl=6; h,r-ind=1,1
          [3,3]((8,43,60),(5,27,38),(10,54,75)); lvl=6; h,r-ind=1,1
          [3,3]((6,32,45),(8,43,60),(5,27,38)); lvl=6; h,r-ind=1,1
          [3,3]((6,32,45),(8,43,60),(3,16,22)); lvl=6; h,r-ind=1,1
        [3,3]((10,54,75),(3,16,22),(2,11,15)); lvl=5; h,r-ind=1,1
      [4,3]((2,11,14),(3,16,21),(2,11,15),(3,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((5,27,36),(3,16,22),(3,16,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,14),(5,27,36),(3,16,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,15),(5,27,36),(3,16,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,14),(2,11,15),(5,27,36)); lvl=5; h,r-ind=1,1
      [4,3]((6,34,45),(3,17,21),(2,11,14),(2,11,15)); lvl=4; h,r-ind=1,1
        [4,3]((3,17,22),(7,39,51),(2,11,14),(3,17,21)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,14),(5,28,36),(7,39,51)); lvl=6; h,r-ind=1,1
          [3,3]((3,17,22),(5,28,36),(7,39,51)); lvl=6; h,r-ind=1,1
          [3,3]((3,17,21),(2,11,14),(5,28,36)); lvl=6; h,r-ind=1,1
          [3,3]((3,17,22),(3,17,21),(5,28,36)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,15),(3,17,22),(7,39,51)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,15),(3,17,22),(6,34,45)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,15),(7,39,51),(2,11,14)); lvl=5; h,r-ind=1,1
      [3,3]((3,17,24),(9,49,69),(2,11,15)); lvl=4; h,r-ind=3,3; optimized-h
      [3,3]((6,34,45),(3,17,24),(2,11,15)); lvl=4; h,r-ind=3,3; optimized-h
    [3,3]((0,1,0),(3,17,21),(3,17,24)); lvl=3; h,r-ind=9,3; optimized-h
    [3,3]((1,6,9),(3,17,24),(2,11,17)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((3,17,27),(1,6,9),(2,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,9),(3,17,24)); lvl=3; h,r-ind=3,3; optimized-h
[3,3]((0,1,0),(1,5,5),(1,4,4)); lvl=1; h,r-ind=1,1
[4,3]((1,0,0),(1,4,4),(4,11,16),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((6,14,19),(1,2,3),(1,3,4),(4,11,16)); lvl=2; h,r-ind=1,5; alert-r-inc
    [3,3]((2,5,7),(1,2,3),(4,11,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,7),(1,3,4),(4,11,16)); lvl=3; h,r-ind=1,1
    [3,3]((6,14,19),(2,5,7),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((6,14,19),(2,5,7),(1,2,3)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(6,14,19),(4,9,12),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,12),(5,11,15),(6,14,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(5,11,15),(6,14,19)); lvl=3; h,r-ind=1,1
    [4,3]((5,9,12),(4,8,11),(4,9,12),(5,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,8,11),(5,11,15),(12,25,34)); lvl=4; h,r-ind=1,1
      [4,3]((3,6,8),(4,9,12),(5,11,15),(12,25,34)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((8,17,23),(4,9,12),(5,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((12,25,34),(8,17,23),(5,11,15)); lvl=5; h,r-ind=1,1
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          [3,3]((3,6,8),(12,25,34),(8,17,23)); lvl=5; h,r-ind=1,1
          [3,3]((3,6,8),(8,17,23),(4,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((3,6,8),(4,8,11),(12,25,34)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,12),(3,6,8),(4,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(4,8,11),(5,11,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(1,0,0),(5,9,12),(4,8,11)); lvl=3; h,r-ind=1,1
        [4,3]((4,8,11),(5,9,12),(2,3,4),(7,13,18)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((6,11,15),(5,9,12),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((7,13,18),(6,11,15),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((4,8,11),(7,13,18),(6,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,8,11),(6,11,15),(5,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(2,3,4),(7,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,0,0),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(4,8,11),(7,13,18)); lvl=4; h,r-ind=1,1
    [4,3]((6,14,19),(4,9,12),(3,7,9),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,16),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,12,16),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,19),(1,3,4),(5,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,19),(5,12,16),(4,9,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,2),(4,9,12),(3,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,12),(2,4,5),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,12),(4,9,12),(2,4,5)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,2),(1,1,1),(2,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(5,9,12),(1,1,1),(2,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,4),(2,4,5),(5,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(5,8,10),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(5,8,10),(2,4,5)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,4),(1,0,0),(1,1,1),(5,8,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,1,1),(3,4,5),(1,0,0)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,4),(3,4,5),(1,0,0)); lvl=5; h,r-ind=1,1
          [3,3]((5,8,10),(1,1,1),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,4),(5,8,10),(3,4,5)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,2),(3,7,9),(1,3,4),(1,4,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,9),(2,5,6),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,13),(2,5,6),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(1,4,4),(4,11,13),(1,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,4),(2,6,7),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(4,11,13),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,13),(1,3,4),(2,6,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,2),(1,3,3),(4,11,13),(2,5,6)); lvl=3; h,r-ind=1,1
        [3,3]((3,8,9),(1,3,3),(4,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(2,5,6),(4,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,8,9),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,8,9),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(3,7,9),(2,5,6)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,0,0),(1,4,4)); lvl=1; h,r-ind=4,4; optimized-h
[5,3]((1,5,5),(2,8,13),(1,5,8),(1,4,4),(4,11,16)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,6),(1,5,8),(2,8,13)); lvl=2; h,r-ind=1,1
  [5,3]((1,4,6),(3,11,16),(4,13,20),(3,10,15),(2,8,13)); lvl=2; h,r-ind=1,1
    [5,3]((7,25,38),(2,7,11),(11,39,59),(9,31,47),(5,17,26)); lvl=3; h,r-ind=1,1
      [3,3]((6,21,32),(9,31,47),(5,17,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(6,21,32),(5,17,26)); lvl=4; h,r-ind=1,1
      [3,3]((10,35,53),(6,21,32),(9,31,47)); lvl=4; h,r-ind=1,1
      [3,3]((11,39,59),(10,35,53),(6,21,32)); lvl=4; h,r-ind=1,1
      [3,3]((7,25,38),(11,39,59),(6,21,32)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(7,25,38),(6,21,32)); lvl=4; h,r-ind=1,1
    [4,3]((4,13,20),(3,10,15),(9,31,47),(5,17,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,15),(8,27,41),(9,31,47)); lvl=4; h,r-ind=1,1
      [3,3]((5,17,26),(8,27,41),(9,31,47)); lvl=4; h,r-ind=1,1
      [3,3]((5,17,26),(4,13,20),(8,27,41)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,20),(3,10,15),(8,27,41)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,11),(4,13,20),(5,17,26)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(7,25,38),(2,7,11),(2,8,13)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((7,25,38),(3,11,17),(2,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,13),(3,11,17),(2,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,8,13),(3,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(7,25,38),(3,11,17)); lvl=4; h,r-ind=1,1
    [5,3]((3,10,15),(3,11,16),(5,18,27),(11,39,59),(9,31,47)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,21),(5,18,27),(3,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,15),(4,14,21),(3,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((4,14,21),(5,18,27),(11,39,59)); lvl=4; h,r-ind=1,1
      [3,3]((4,14,21),(11,39,59),(10,35,53)); lvl=4; h,r-ind=1,1
      [3,3]((9,31,47),(4,14,21),(10,35,53)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,15),(9,31,47),(4,14,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(3,11,16),(5,18,27)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(7,25,38),(5,18,27),(11,39,59)); lvl=3; h,r-ind=1,1
      [3,3]((7,25,38),(11,39,59),(12,43,65)); lvl=4; h,r-ind=1,1
      [3,3]((5,18,27),(11,39,59),(12,43,65)); lvl=4; h,r-ind=1,1
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      [3,3]((1,4,6),(5,18,27),(12,43,65)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(7,25,38),(12,43,65)); lvl=4; h,r-ind=1,1
  [3,3]((2,6,9),(4,13,20),(3,10,15)); lvl=2; h,r-ind=1,1
  [4,3]((3,11,16),(1,3,4),(2,6,9),(3,10,15)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,10),(7,23,34),(2,6,9),(1,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,6,9),(4,13,19),(7,23,34)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,10),(4,13,19),(7,23,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,10),(4,13,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(4,13,19)); lvl=4; h,r-ind=1,1
    [3,3]((3,10,15),(7,23,34),(2,6,9)); lvl=3; h,r-ind=1,1
    [4,3]((3,11,16),(2,7,10),(3,10,15),(7,23,34)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,17,25),(2,7,10),(7,23,34)); lvl=4; h,r-ind=1,1
      [3,3]((5,17,25),(3,10,15),(7,23,34)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,16),(5,17,25),(3,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,16),(5,17,25),(2,7,10)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,4),(2,6,9),(4,11,16)); lvl=2; h,r-ind=1,1
  [4,3]((3,11,16),(4,15,21),(1,3,4),(3,11,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,15),(4,15,21),(9,33,46)); lvl=3; h,r-ind=1,1
    [4,3]((3,11,16),(2,7,10),(4,15,21),(9,33,46)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((6,22,31),(2,7,10),(9,33,46)); lvl=4; h,r-ind=1,1
      [3,3]((4,15,21),(6,22,31),(9,33,46)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,16),(6,22,31),(2,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,15,21),(3,11,16),(6,22,31)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,4),(2,7,10),(3,11,15),(9,33,46)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,18,25),(3,11,15),(9,33,46)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,10),(5,18,25),(9,33,46)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(5,18,25),(3,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,10),(1,3,4),(5,18,25)); lvl=4; h,r-ind=1,1
  [4,3]((2,10,13),(1,4,6),(2,8,11),(1,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,11),(3,13,18),(5,22,31),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,17,24),(5,22,31),(3,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,11),(4,17,24),(3,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,8,11),(4,17,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(4,17,24),(5,22,31)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,8),(1,5,7),(5,22,31),(1,4,6)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((1,5,7),(2,9,13),(5,22,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,9,13),(5,22,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(1,4,6),(2,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(1,5,7),(2,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,12),(2,8,11),(3,13,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,7),(2,9,12),(3,13,18),(5,22,31)); lvl=3; h,r-ind=1,1
      [3,3]((4,18,25),(2,9,12),(3,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((5,22,31),(4,18,25),(3,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(5,22,31),(4,18,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(4,18,25),(2,9,12)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,13),(1,5,7),(2,9,12)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,5),(2,10,13),(2,8,11),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(2,9,12),(3,13,17),(5,22,28)); lvl=3; h,r-ind=1,1
      [3,3]((4,18,23),(2,9,12),(3,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,22,28),(4,18,23),(3,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(5,22,28),(4,18,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(4,18,23),(2,9,12)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,5),(2,8,11),(3,13,17),(5,22,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(4,17,22),(3,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,22,28),(4,17,22),(3,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(5,22,28),(4,17,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,8,11),(4,17,22)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,5),(1,5,5),(1,5,6),(5,22,28)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,9,11),(1,5,6),(1,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,11),(1,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((5,22,28),(2,9,11),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(5,22,28),(2,9,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(2,10,13),(2,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,11),(2,9,12),(3,13,17)); lvl=3; h,r-ind=1,1
  [4,3]((2,8,11),(4,15,21),(1,4,5),(3,11,15)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,21),(5,19,26),(3,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(5,19,26),(3,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,11),(4,15,21),(5,19,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(2,8,11),(5,19,26)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,4),(1,3,4),(1,4,5),(3,11,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(3,11,15),(2,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(3,11,15),(2,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(1,4,5),(2,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(1,3,4),(2,7,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,5),(1,4,4),(1,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,6),(3,11,16),(2,8,11),(4,15,21)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,16),(4,15,21),(5,19,27)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,11),(4,15,21),(5,19,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,8,11),(5,19,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(3,11,16),(5,19,27)); lvl=3; h,r-ind=1,1
```

```
[5,3]((4,17,29),(3,12,20),(3,13,22),(1,3,5),(3,10,17)); lvl=1; h,r-ind=1,1
  [3,3]((8,33,56),(4,17,29),(3,13,22)); lvl=2; h,r-ind=1,1
  [4,3]((9,36,61),(4,16,27),(8,33,56),(3,13,22)); lvl=2; h,r-ind=1,1
    [3,3]((12,49,83),(3,13,22),(4,16,27)); lvl=3; h,r-ind=1,1
    [3,3]((9,36,61),(12,49,83),(4,16,27)); lvl=3; h,r-ind=1,1
    [3,3]((8,33,56),(12,49,83),(3,13,22)); lvl=3; h,r-ind=1,1
    [3,3]((9,36,61),(8,33,56),(12,49,83)); lvl=3; h,r-ind=1,1
  [3,3]((3,12,20),(4,16,27),(3,13,22)); lvl=2; h,r-ind=1,1
  [4,3]((6,23,39),(9,36,61),(4,16,27),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((10,39,66),(4,16,27),(9,36,61)); lvl=3; h,r-ind=1,1
    [3,3]((6,23,39),(10,39,66),(9,36,61)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(6,23,39),(10,39,66)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(10,39,66),(4,16,27)); lvl=3; h,r-ind=1,1
  [3,3]((3,12,20),(4,16,27),(1,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((6,23,39),(9,36,61),(8,33,56),(4,17,29)); lvl=2; h,r-ind=1,1
    [3,3]((8,33,56),(9,36,61),(22,89,151)); lvl=3; h,r-ind=1,1
    [4,3]((6,23,39),(5,20,34),(9,36,61),(22,89,151)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,20,34),(14,56,95),(22,89,151)); lvl=4; h,r-ind=1,1
      [3,3]((9,36,61),(14,56,95),(22,89,151)); lvl=4; h,r-ind=1,1
      [3,3]((6,23,39),(9,36,61),(14,56,95)); lvl=4; h,r-ind=1,1
      [3,3]((6,23,39),(5,20,34),(14,56,95)); lvl=4; h,r-ind=1,1
    [4,3]((4,17,29),(5,20,34),(8,33,56),(22,89,151)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,20,34),(22,89,151),(13,53,90)); lvl=4; h,r-ind=1,1
      [3,3]((8,33,56),(22,89,151),(13,53,90)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,29),(8,33,56),(13,53,90)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,29),(5,20,34),(13,53,90)); lvl=4; h,r-ind=1,1
  [3,3]((6,23,39),(3,10,17),(4,17,29)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((6,23,39),(1,3,5),(3,10,17)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,3,5),(3,10,17)); lvl=1; h,r-ind=1,1
[4,3]((2,11,19),(1,0,0),(4,17,29),(3,10,17)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,12),(1,0,0),(3,10,17)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,12),(4,17,29),(3,10,17)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,12),(3,14,24),(4,17,29)); lvl=2; h,r-ind=1,1
  [3,3]((2,11,19),(2,7,12),(3,14,24)); lvl=2; h,r-ind=1,1
  [3,3]((2,11,19),(2,7,12),(1,0,0)); lvl=2; h,r-ind=1,1
[5,3]((2,8,13),(4,11,16),(1,2,3),(3,12,20),(1,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((6,17,27),(3,11,18),(6,19,30),(1,3,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((1,3,5),(9,28,45),(3,11,18),(3,10,16)); lvl=3; h,r-ind=1,3
      [3,3]((4,13,21),(3,10,16),(9,28,45)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(4,13,21),(9,28,45)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,18),(4,13,21),(3,10,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(3,11,18),(4,13,21)); lvl=4; h,r-ind=1,1
    [3,3]((4,12,19),(9,28,45),(3,10,16)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((4,12,19),(6,19,30),(3,10,16)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,5),(6,17,27),(4,12,19),(9,28,45)); lvl=3; h,r-ind=1,3
      [3,3]((5,15,24),(4,12,19),(6,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(5,15,24),(6,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((9,28,45),(5,15,24),(4,12,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(9,28,45),(5,15,24)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,3),(6,17,27),(1,3,5)); lvl=2; h,r-ind=1,1
  [5,3]((4,13,20),(2,6,9),(1,2,3),(6,17,27),(6,19,30)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,9,14),(2,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((4,13,20),(3,9,14),(2,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((4,13,20),(5,16,25),(3,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,9,14),(8,23,36)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(6,17,27),(4,12,19),(8,23,36)); lvl=3; h,r-ind=1,1
      [3,3]((4,12,19),(6,17,27),(5,14,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(6,17,27),(5,14,22)); lvl=4; h,r-ind=1,1
      [3,3]((8,23,36),(4,12,19),(5,14,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(8,23,36),(5,14,22)); lvl=4; h,r-ind=1,1
    [3,3]((3,9,14),(4,12,19),(8,23,36)); lvl=3; h,r-ind=1,1
    [4,3]((6,19,30),(5,16,25),(3,9,14),(4,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((9,28,44),(3,9,14),(5,16,25)); lvl=4; h,r-ind=1,1
      [3,3]((6,19,30),(9,28,44),(5,16,25)); lvl=4; h,r-ind=1,1
      [3,3]((4,12,19),(9,28,44),(3,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((6,19,30),(4,12,19),(9,28,44)); lvl=4; h,r-ind=1,1
  [3,3]((4,11,16),(2,6,9),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((3,12,20),(3,11,18),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,8,13),(3,12,20),(3,11,18)); lvl=2; h,r-ind=1,1
  [4,3]((2,8,13),(4,13,20),(3,11,18),(6,19,30)); lvl=2; h,r-ind=3,1; alert-h-inc
    [3,3]((6,19,30),(3,10,16),(5,16,25)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,11),(3,10,16),(5,16,25)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,11),(4,13,20),(5,16,25)); lvl=3; h,r-ind=1,1
    [4,3]((2,8,13),(3,11,18),(2,7,11),(3,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,16),(3,11,18),(5,18,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,13),(3,11,18),(5,18,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(2,8,13),(5,18,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(3,10,16),(5,18,29)); lvl=4; h,r-ind=1,1
[3,3]((1,0,0),(1,2,3),(1,3,5)); lvl=1; h,r-ind=1,1
[4,3]((2,11,19),(4,17,29),(3,13,22),(2,10,17)); lvl=1; h,r-ind=1,1
```

```
    [4,3]((3,14,24),(8,37,63),(3,13,22),(4,17,29)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((8,37,63),(6,27,46),(3,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,17,29),(6,27,46),(3,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,24),(8,37,63),(6,27,46)); lvl=3; h,r-ind=1,1
      [3,3]((4,17,29),(3,14,24),(6,27,46)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,17),(8,37,63),(3,13,22)); lvl=2; h,r-ind=1,1
    [4,3]((3,14,24),(2,11,19),(2,10,17),(8,37,63)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,24,41),(2,11,19),(2,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((8,37,63),(5,24,41),(2,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,24),(8,37,63),(5,24,41)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,24),(5,24,41),(2,11,19)); lvl=3; h,r-ind=1,1
  [3,3]((2,11,19),(2,10,17),(3,16,27)); lvl=1; h,r-ind=1,1
```

19.30 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,12,19)); lvl=0; h,r-ind=19,361
  [5,3]((3,16,25),(3,9,14),(1,2,3),(1,4,6),(7,37,58)); lvl=1; h,r-ind=1,1
    [3,3]((2,9,14),(1,4,6),(3,16,25)); lvl=2; h,r-ind=1,1
    [3,3]((7,37,58),(2,9,14),(3,16,25)); lvl=2; h,r-ind=1,1
    [3,3]((5,23,36),(7,37,58),(2,9,14)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,9,14),(5,23,36),(2,9,14)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,3),(2,9,14),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,14),(1,2,3),(2,9,14)); lvl=2; h,r-ind=1,1
  [3,3]((2,12,19),(3,16,25),(7,37,58)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,12,19),(3,9,14),(7,37,58)); lvl=1; h,r-ind=1,1
    [4,3]((5,23,36),(7,37,58),(4,21,33),(3,14,22)); lvl=2; h,r-ind=1,1
      [4,3]((7,37,58),(6,30,47),(4,21,33),(13,65,102)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((10,51,80),(6,30,47),(13,65,102)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,33),(10,51,80),(13,65,102)); lvl=4; h,r-ind=1,1
        [3,3]((7,37,58),(10,51,80),(6,30,47)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,33),(7,37,58),(10,51,80)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,22),(4,21,33),(13,65,102)); lvl=3; h,r-ind=1,1
      [4,3]((3,14,22),(5,23,36),(6,30,47),(13,65,102)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,44,69),(6,30,47),(5,23,36)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,22),(9,44,69),(5,23,36)); lvl=4; h,r-ind=1,1
        [3,3]((9,44,69),(13,65,102),(6,30,47)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,22),(9,44,69),(13,65,102)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,19),(4,21,33),(3,14,22)); lvl=2; h,r-ind=1,1
    [4,3]((3,9,14),(5,23,36),(2,7,11),(3,14,22)); lvl=2; h,r-ind=1,1
      [4,3]((4,16,25),(9,37,58),(5,23,36),(3,14,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,22),(9,37,58),(7,30,47)); lvl=4; h,r-ind=1,1
        [3,3]((4,16,25),(9,37,58),(7,30,47)); lvl=4; h,r-ind=1,1
        [3,3]((5,23,36),(3,14,22),(7,30,47)); lvl=4; h,r-ind=1,1
        [3,3]((4,16,25),(5,23,36),(7,30,47)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(9,37,58),(3,14,22)); lvl=3; h,r-ind=1,1
      [4,3]((3,9,14),(4,16,25),(2,7,11),(9,37,58)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,23,36),(4,16,25),(9,37,58)); lvl=4; h,r-ind=1,1
        [3,3]((6,23,36),(2,7,11),(9,37,58)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,14),(6,23,36),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,14),(6,23,36),(4,16,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,19),(2,7,11),(3,14,22)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,12,19),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,9,14),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,12,19),(7,37,58),(4,21,33)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,9,14),(1,2,3)); lvl=1; h,r-ind=1,1
  [5,3]((1,6,9),(3,16,25),(1,5,6),(1,4,6),(1,4,5)); lvl=1; h,r-ind=1,2
    [3,3]((1,4,6),(1,5,7),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(1,5,7),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,9),(1,5,6),(1,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(2,10,15),(1,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,9),(2,11,17),(2,10,15),(1,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,17),(2,10,15),(3,16,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,10,15),(3,16,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,9),(2,11,17),(3,16,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(1,6,9),(3,16,24)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,17),(3,16,25),(1,4,6),(2,10,15)); lvl=2; h,r-ind=1,1
      [3,3]((3,15,23),(1,4,6),(3,16,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,17),(3,15,23),(3,16,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,17),(2,10,15),(3,15,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,15),(3,15,23),(1,4,6)); lvl=3; h,r-ind=1,1
  [3,3]((2,12,19),(1,6,9),(3,16,25)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(1,6,9),(1,5,5),(1,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,5),(3,16,18),(1,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,8),(1,6,7),(3,16,18),(1,5,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,6,7),(3,16,18),(2,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(3,16,18),(2,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(1,5,6),(2,11,13)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,6,8),(1,6,7),(2,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(1,6,9),(1,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,8),(1,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,8),(1,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,6,7),(1,5,5),(3,16,18)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,11,12),(1,6,7),(3,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(2,11,12),(3,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,18),(2,11,12),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(3,17,18),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,6,6),(3,17,18)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(3,17,18),(2,11,12)); lvl=3; h,r-ind=1,1
  [3,3]((2,12,19),(0,1,0),(1,6,9)); lvl=1; h,r-ind=1,1
  [5,3]((2,7,8),(1,4,4),(1,5,5),(1,5,6),(1,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,13,14),(1,5,5),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((3,13,14),(2,8,9),(4,17,19),(1,4,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,9),(4,17,19),(5,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,14),(4,17,19),(5,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(3,13,14),(5,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,8,9),(5,21,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,8),(2,8,9),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((3,13,15),(2,8,9),(4,17,19),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,9),(4,17,19),(5,21,24)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,15),(4,17,19),(5,21,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,13,15),(5,21,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,8,9),(5,21,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,8),(2,8,9),(1,4,5)); lvl=2; h,r-ind=1,1
    [5,3]((3,13,14),(3,13,15),(4,17,19),(1,5,5),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,10),(1,5,6),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,14),(2,9,10),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,14),(2,9,10),(4,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(3,13,15),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(4,17,19),(3,13,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,15),(1,4,5),(1,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,4),(2,7,8),(1,4,4)); lvl=1; h,r-ind=4,1
    [4,3]((1,4,4),(1,2,2),(2,7,8),(2,5,6)); lvl=2; h,r-ind=2,1
      [4,3]((1,3,3),(1,2,2),(2,6,7),(2,5,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,2),(2,5,6),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(2,5,6),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(3,8,9)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,8),(1,4,4),(1,3,3),(2,6,7)); lvl=3; h,r-ind=1,1
        [3,3]((3,10,11),(1,3,3),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(3,10,11),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(3,10,11),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(2,6,7),(3,10,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,2),(2,3,4),(2,5,6)); lvl=2; h,r-ind=2,1
      [4,3]((1,2,2),(1,1,1),(2,5,6),(2,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,1),(2,4,5),(3,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(2,4,5),(3,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,1,1),(3,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(1,2,2),(3,6,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,0,0),(2,3,4),(1,1,1),(2,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,4),(2,4,5),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(2,4,5),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(1,1,1),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(1,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,4,4)); lvl=1; h,r-ind=4,4; optimized-h
  [5,3]((2,3,4),(2,7,8),(1,2,3),(1,4,6),(1,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,6),(2,7,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,4),(1,4,5),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,5),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(1,3,4),(2,5,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,3,4),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,6),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
```

19.31 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,13,19)); lvl=0; h,r-ind=19,361
  [6,3]((4,12,17),(2,9,13),(1,3,3),(1,5,5),(3,19,27),(7,44,63)); lvl=1; h,r-ind=1,1
    [4,3]((1,5,7),(2,9,13),(3,17,24),(9,53,76)); lvl=2; h,r-ind=1,1
      [3,3]((4,23,33),(9,53,76),(6,35,50)); lvl=3; h,r-ind=1,1
      [5,3]((14,78,111),(8,45,64),(4,23,33),(5,28,40),(6,35,50)); lvl=3; h,r-ind=1,1
        [5,3]((4,23,33),(7,40,57),(6,35,50),(21,119,170),(12,68,97)); lvl=4; h,r-ind=1,1
```

```
      [4,3]((16,91,130),(27,154,220),(23,131,187),(12,68,97)); lvl=5; h,r-ind=1,1
        [3,3]((39,222,317),(23,131,187),(27,154,220)); lvl=6; h,r-ind=1,1
        [3,3]((16,91,130),(39,222,317),(27,154,220)); lvl=6; h,r-ind=1,1
        [3,3]((12,68,97),(16,91,130),(39,222,317)); lvl=6; h,r-ind=1,1
        [3,3]((12,68,97),(39,222,317),(23,131,187)); lvl=6; h,r-ind=1,1
      [3,3]((7,40,57),(23,131,187),(12,68,97)); lvl=5; h,r-ind=1,1
      [3,3]((21,119,170),(16,91,130),(12,68,97)); lvl=5; h,r-ind=1,1
      [3,3]((4,23,33),(21,119,170),(16,91,130)); lvl=5; h,r-ind=1,1
      [3,3]((4,23,33),(16,91,130),(27,154,220)); lvl=5; h,r-ind=1,1
      [4,3]((7,40,57),(11,63,90),(27,154,220),(23,131,187)); lvl=5; h,r-ind=1,1
        [3,3]((34,194,277),(27,154,220),(11,63,90)); lvl=6; h,r-ind=1,1
        [3,3]((7,40,57),(34,194,277),(11,63,90)); lvl=6; h,r-ind=1,1
        [3,3]((23,131,187),(7,40,57),(34,194,277)); lvl=6; h,r-ind=1,1
        [3,3]((23,131,187),(34,194,277),(27,154,220)); lvl=6; h,r-ind=1,1
      [3,3]((6,35,50),(7,40,57),(11,63,90)); lvl=5; h,r-ind=1,1
      [3,3]((4,23,33),(6,35,50),(11,63,90)); lvl=5; h,r-ind=1,1
      [3,3]((4,23,33),(11,63,90),(27,154,220)); lvl=5; h,r-ind=1,1
    [4,3]((13,73,104),(5,28,40),(21,119,170),(12,68,97)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((5,28,40),(21,119,170),(17,96,137)); lvl=5; h,r-ind=1,1
      [3,3]((12,68,97),(21,119,170),(17,96,137)); lvl=5; h,r-ind=1,1
      [3,3]((13,73,104),(12,68,97),(17,96,137)); lvl=5; h,r-ind=1,1
      [3,3]((13,73,104),(5,28,40),(17,96,137)); lvl=5; h,r-ind=1,1
    [3,3]((14,78,111),(13,73,104),(5,28,40)); lvl=4; h,r-ind=1,1
    [3,3]((8,45,64),(14,78,111),(13,73,104)); lvl=4; h,r-ind=1,1
    [4,3]((8,45,64),(13,73,104),(7,40,57),(12,68,97)); lvl=4; h,r-ind=1,1
      [3,3]((13,73,104),(12,68,97),(20,113,161)); lvl=5; h,r-ind=1,1
      [3,3]((7,40,57),(12,68,97),(20,113,161)); lvl=5; h,r-ind=1,1
      [3,3]((8,45,64),(13,73,104),(20,113,161)); lvl=5; h,r-ind=1,1
      [3,3]((7,40,57),(8,45,64),(20,113,161)); lvl=5; h,r-ind=1,1
    [3,3]((5,28,40),(4,23,33),(21,119,170)); lvl=4; h,r-ind=1,1
  [3,3]((3,17,24),(8,45,64),(6,35,50)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((3,17,24),(1,5,7),(14,78,111),(8,45,64)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(9,50,71),(14,78,111)); lvl=4; h,r-ind=1,1
    [3,3]((8,45,64),(9,50,71),(14,78,111)); lvl=4; h,r-ind=1,1
    [3,3]((3,17,24),(8,45,64),(9,50,71)); lvl=4; h,r-ind=1,1
    [3,3]((3,17,24),(1,5,7),(9,50,71)); lvl=4; h,r-ind=1,1
  [3,3]((4,23,33),(5,28,40),(7,39,56)); lvl=3; h,r-ind=1,1
  [5,3]((1,5,7),(14,78,111),(2,9,13),(5,28,40),(7,39,56)); lvl=3; h,r-ind=1,1
    [4,3]((5,28,40),(6,33,47),(14,77,110),(15,82,117)); lvl=4; h,r-ind=1,1
      [3,3]((15,82,117),(6,33,47),(20,110,157)); lvl=5; h,r-ind=1,1
      [3,3]((5,28,40),(6,33,47),(20,110,157)); lvl=5; h,r-ind=1,1
      [3,3]((14,77,110),(5,28,40),(20,110,157)); lvl=5; h,r-ind=1,1
      [3,3]((14,77,110),(15,82,117),(20,110,157)); lvl=5; h,r-ind=1,1
    [5,3]((10,54,77),(8,44,63),(3,16,23),(14,77,110),(15,82,117)); lvl=4; h,r-ind=1,1
      [3,3]((9,49,70),(3,16,23),(10,54,77)); lvl=5; h,r-ind=1,1
      [3,3]((15,82,117),(9,49,70),(10,54,77)); lvl=5; h,r-ind=1,1
      [3,3]((15,82,117),(14,77,110),(9,49,70)); lvl=5; h,r-ind=1,1
      [3,3]((8,44,63),(9,49,70),(3,16,23)); lvl=5; h,r-ind=1,1
      [3,3]((8,44,63),(14,77,110),(9,49,70)); lvl=5; h,r-ind=1,1
    [4,3]((1,5,7),(2,9,13),(10,54,77),(3,16,23)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((4,21,30),(3,16,23),(2,9,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(4,21,30),(2,9,13)); lvl=5; h,r-ind=1,1
      [3,3]((10,54,77),(4,21,30),(3,16,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(10,54,77),(4,21,30)); lvl=5; h,r-ind=1,1
    [3,3]((8,44,63),(3,16,23),(7,39,56)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,7),(10,54,77),(6,33,47),(15,82,117)); lvl=4; h,r-ind=1,1
      [3,3]((10,54,77),(15,82,117),(16,87,124)); lvl=5; h,r-ind=1,1
      [3,3]((6,33,47),(15,82,117),(16,87,124)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(10,54,77),(16,87,124)); lvl=5; h,r-ind=1,1
      [3,3]((6,33,47),(1,5,7),(16,87,124)); lvl=5; h,r-ind=1,1
    [4,3]((8,44,63),(7,39,56),(5,28,40),(14,77,110)); lvl=4; h,r-ind=1,1
      [3,3]((7,39,56),(5,28,40),(13,72,103)); lvl=5; h,r-ind=1,1
      [3,3]((14,77,110),(5,28,40),(13,72,103)); lvl=5; h,r-ind=1,1
      [3,3]((8,44,63),(7,39,56),(13,72,103)); lvl=5; h,r-ind=1,1
      [3,3]((14,77,110),(8,44,63),(13,72,103)); lvl=5; h,r-ind=1,1
    [3,3]((14,78,111),(5,28,40),(6,33,47)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(14,78,111),(6,33,47)); lvl=4; h,r-ind=1,1
[4,3]((2,12,17),(7,44,63),(3,17,24),(9,53,76)); lvl=2; h,r-ind=1,1
  [3,3]((5,30,43),(7,42,60),(11,67,96)); lvl=3; h,r-ind=1,1
  [5,3]((2,12,17),(19,113,161),(7,44,63),(7,42,60),(11,67,96)); lvl=3; h,r-ind=1,1
    [4,3]((13,79,113),(22,133,190),(11,67,96),(7,42,60)); lvl=4; h,r-ind=1,1
      [3,3]((7,42,60),(20,121,173),(22,133,190)); lvl=5; h,r-ind=1,1
      [3,3]((13,79,113),(20,121,173),(22,133,190)); lvl=5; h,r-ind=1,1
      [3,3]((11,67,96),(13,79,113),(20,121,173)); lvl=5; h,r-ind=1,1
      [3,3]((11,67,96),(7,42,60),(20,121,173)); lvl=5; h,r-ind=1,1
    [4,3]((24,145,207),(22,133,190),(9,54,77),(7,42,60)); lvl=4; h,r-ind=1,1
      [3,3]((7,42,60),(9,54,77),(31,187,267)); lvl=5; h,r-ind=1,1
      [3,3]((24,145,207),(9,54,77),(31,187,267)); lvl=5; h,r-ind=1,1
      [3,3]((22,133,190),(24,145,207),(31,187,267)); lvl=5; h,r-ind=1,1
      [3,3]((22,133,190),(7,42,60),(31,187,267)); lvl=5; h,r-ind=1,1
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      [3,3]((19,113,161),(9,54,77),(7,42,60)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,17),(19,113,161),(9,54,77)); lvl=4; h,r-ind=1,1
      [4,3]((2,12,17),(17,103,147),(24,145,207),(9,54,77)); lvl=4; h,r-ind=1,1
        [3,3]((24,145,207),(17,103,147),(26,157,224)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,17),(17,103,147),(26,157,224)); lvl=5; h,r-ind=1,1
        [3,3]((9,54,77),(2,12,17),(26,157,224)); lvl=5; h,r-ind=1,1
        [3,3]((9,54,77),(24,145,207),(26,157,224)); lvl=5; h,r-ind=1,1
      [5,3]((6,37,53),(17,103,147),(24,145,207),(13,79,113),(22,133,190)); lvl=4; h,r-ind=1,1
        [3,3]((15,91,130),(24,145,207),(22,133,190)); lvl=5; h,r-ind=1,1
        [3,3]((15,91,130),(13,79,113),(22,133,190)); lvl=5; h,r-ind=1,1
        [3,3]((6,37,53),(15,91,130),(13,79,113)); lvl=5; h,r-ind=1,1
        [3,3]((17,103,147),(15,91,130),(24,145,207)); lvl=5; h,r-ind=1,1
        [3,3]((6,37,53),(17,103,147),(15,91,130)); lvl=5; h,r-ind=1,1
      [4,3]((2,12,17),(7,44,63),(6,37,53),(17,103,147)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((7,44,63),(6,37,53),(8,49,70)); lvl=5; h,r-ind=1,1
        [3,3]((17,103,147),(6,37,53),(8,49,70)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,17),(17,103,147),(8,49,70)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,17),(7,44,63),(8,49,70)); lvl=5; h,r-ind=1,1
      [3,3]((6,37,53),(13,79,113),(11,67,96)); lvl=4; h,r-ind=1,1
    [5,3]((10,59,84),(19,113,161),(6,35,50),(5,30,43),(7,42,60)); lvl=3; h,r-ind=1,1
      [3,3]((7,42,60),(17,101,144),(19,113,161)); lvl=4; h,r-ind=1,1
      [3,3]((10,59,84),(17,101,144),(19,113,161)); lvl=4; h,r-ind=1,1
      [4,3]((7,42,60),(27,161,230),(15,89,127),(17,101,144)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((22,131,187),(15,89,127),(27,161,230)); lvl=5; h,r-ind=1,1
        [3,3]((7,42,60),(22,131,187),(27,161,230)); lvl=5; h,r-ind=1,1
        [3,3]((17,101,144),(22,131,187),(15,89,127)); lvl=5; h,r-ind=1,1
        [3,3]((7,42,60),(17,101,144),(22,131,187)); lvl=5; h,r-ind=1,1
      [4,3]((10,59,84),(8,47,67),(15,89,127),(17,101,144)); lvl=4; h,r-ind=1,1
        [3,3]((25,148,211),(15,89,127),(8,47,67)); lvl=5; h,r-ind=1,1
        [3,3]((10,59,84),(25,148,211),(8,47,67)); lvl=5; h,r-ind=1,1
        [3,3]((17,101,144),(10,59,84),(25,148,211)); lvl=5; h,r-ind=1,1
        [3,3]((17,101,144),(25,148,211),(15,89,127)); lvl=5; h,r-ind=1,1
      [3,3]((5,30,43),(7,42,60),(27,161,230)); lvl=4; h,r-ind=1,1
      [5,3]((6,35,50),(8,47,67),(5,30,43),(27,161,230),(15,89,127)); lvl=4; h,r-ind=1,1
        [3,3]((20,119,170),(27,161,230),(5,30,43)); lvl=5; h,r-ind=1,1
        [3,3]((20,119,170),(33,196,280),(5,30,43)); lvl=5; h,r-ind=1,1
        [3,3]((13,77,110),(33,196,280),(5,30,43)); lvl=5; h,r-ind=1,1
        [3,3]((6,35,50),(13,77,110),(5,30,43)); lvl=5; h,r-ind=1,1
        [4,3]((13,77,110),(33,196,280),(8,47,67),(28,166,237)); lvl=5; h,r-ind=1,1
          [3,3]((33,196,280),(28,166,237),(41,243,347)); lvl=6; h,r-ind=1,1
          [3,3]((8,47,67),(28,166,237),(41,243,347)); lvl=6; h,r-ind=1,1
          [3,3]((13,77,110),(33,196,280),(41,243,347)); lvl=6; h,r-ind=1,1
          [3,3]((8,47,67),(13,77,110),(41,243,347)); lvl=6; h,r-ind=1,1
        [3,3]((6,35,50),(13,77,110),(8,47,67)); lvl=5; h,r-ind=1,1
        [3,3]((20,119,170),(15,89,127),(27,161,230)); lvl=5; h,r-ind=1,1
        [4,3]((20,119,170),(33,196,280),(28,166,237),(15,89,127)); lvl=5; h,r-ind=1,1
          [3,3]((48,285,407),(33,196,280),(28,166,237)); lvl=6; h,r-ind=1,1
          [3,3]((15,89,127),(48,285,407),(28,166,237)); lvl=6; h,r-ind=1,1
          [3,3]((20,119,170),(15,89,127),(48,285,407)); lvl=6; h,r-ind=1,1
          [3,3]((20,119,170),(48,285,407),(33,196,280)); lvl=6; h,r-ind=1,1
        [3,3]((8,47,67),(28,166,237),(15,89,127)); lvl=5; h,r-ind=1,1
    [3,3]((3,17,24),(10,59,84),(6,35,50)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,12,17),(3,17,24),(10,59,84),(19,113,161)); lvl=3; h,r-ind=1,1
      [3,3]((12,71,101),(10,59,84),(3,17,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,17),(12,71,101),(3,17,24)); lvl=4; h,r-ind=1,1
      [3,3]((19,113,161),(2,12,17),(12,71,101)); lvl=4; h,r-ind=1,1
      [3,3]((19,113,161),(12,71,101),(10,59,84)); lvl=4; h,r-ind=1,1
    [3,3]((6,35,50),(9,53,76),(5,30,43)); lvl=3; h,r-ind=1,1
  [4,3]((2,12,17),(5,28,39),(4,23,32),(3,17,24)); lvl=2; h,r-ind=1,1
    [3,3]((5,28,39),(4,23,32),(7,40,56)); lvl=3; h,r-ind=1,1
    [3,3]((2,12,17),(4,23,32),(7,40,56)); lvl=3; h,r-ind=1,1
    [3,3]((3,17,24),(2,12,17),(7,40,56)); lvl=3; h,r-ind=1,1
    [3,3]((3,17,24),(5,28,39),(7,40,56)); lvl=3; h,r-ind=1,1
  [3,3]((2,12,17),(7,44,63),(3,19,27)); lvl=2; h,r-ind=1,1
  [4,3]((2,12,17),(4,23,32),(3,19,27),(1,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,18,25),(1,6,8),(4,23,32)); lvl=3; h,r-ind=1,1
    [3,3]((2,12,17),(3,18,25),(4,23,32)); lvl=3; h,r-ind=1,1
    [3,3]((2,12,17),(3,19,27),(3,18,25)); lvl=3; h,r-ind=1,1
    [3,3]((3,19,27),(3,18,25),(1,6,8)); lvl=3; h,r-ind=1,1
  [6,3]((5,28,39),(4,23,32),(3,15,20),(3,16,22),(2,10,13),(1,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,15),(3,16,22),(5,28,39)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,15),(4,23,32),(5,28,39)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,15),(1,6,8),(4,23,32)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,15),(2,10,13),(1,6,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,15,20),(2,11,15),(3,16,22)); lvl=3; h,r-ind=1,1
    [3,3]((3,15,20),(2,11,15),(2,10,13)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,5),(2,10,13),(1,6,8)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,4,4),(4,19,25),(1,5,5),(2,10,13)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((4,19,25),(5,23,29),(2,10,13),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,13),(1,5,6),(6,29,37)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((3,14,18),(1,5,6),(6,29,37)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,18),(5,23,29),(1,5,6)); lvl=4; h,r-ind=1,1
      [4,3]((4,19,25),(3,14,18),(2,10,13),(6,29,37)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,18),(5,24,31),(6,29,37)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,13),(5,24,31),(6,29,37)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,25),(2,10,13),(5,24,31)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,25),(3,14,18),(5,24,31)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,4),(5,23,29),(1,5,6)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((1,4,4),(1,5,5),(1,5,6)); lvl=3; h,r-ind=1,1
  [5,3]((1,3,4),(2,9,12),(1,3,3),(1,4,4),(4,19,25)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(4,19,25),(5,23,29)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,4,5),(1,4,4),(5,23,29)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,4,5),(1,4,4),(1,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,5),(1,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(2,9,12),(4,19,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,5),(2,9,12)); lvl=3; h,r-ind=1,1
  [3,3]((4,19,25),(3,15,20),(2,10,13)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,7),(5,28,39),(3,16,22),(3,17,24)); lvl=2; h,r-ind=1,1
    [3,3]((3,16,22),(5,28,39),(6,33,46)); lvl=3; h,r-ind=1,1
    [3,3]((3,17,24),(5,28,39),(6,33,46)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(3,16,22),(6,33,46)); lvl=3; h,r-ind=1,1
    [3,3]((3,17,24),(1,5,7),(6,33,46)); lvl=3; h,r-ind=1,1
  [6,3]((2,9,12),(3,13,18),(1,5,7),(4,19,25),(3,15,20),(3,16,22)); lvl=2; h,r-ind=1,1
    [3,3]((5,25,34),(3,16,22),(1,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((7,34,46),(5,25,34),(11,54,73),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((11,54,73),(5,25,34),(12,59,80)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(5,25,34),(12,59,80)); lvl=4; h,r-ind=1,1
      [3,3]((7,34,46),(1,5,7),(12,59,80)); lvl=4; h,r-ind=1,1
      [3,3]((7,34,46),(11,54,73),(12,59,80)); lvl=4; h,r-ind=1,1
    [4,3]((3,14,19),(9,43,58),(7,34,46),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((10,48,65),(7,34,46),(9,43,58)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,19),(10,48,65),(9,43,58)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(3,14,19),(10,48,65)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(10,48,65),(7,34,46)); lvl=4; h,r-ind=1,1
    [3,3]((3,13,18),(3,14,19),(1,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(3,13,18),(3,14,19)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,12),(8,38,51),(3,14,19),(9,43,58)); lvl=3; h,r-ind=1,1
      [3,3]((11,52,70),(9,43,58),(8,38,51)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,12),(11,52,70),(8,38,51)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,19),(11,52,70),(9,43,58)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,12),(3,14,19),(11,52,70)); lvl=4; h,r-ind=1,1
    [6,3]((5,24,32),(9,44,59),(8,38,51),(9,43,58),(7,34,46),(11,54,73)); lvl=3; h,r-ind=1,1
      [3,3]((6,29,39),(9,43,58),(7,34,46)); lvl=4; h,r-ind=1,1
      [3,3]((11,54,73),(6,29,39),(7,34,46)); lvl=4; h,r-ind=1,1
      [3,3]((10,49,66),(11,54,73),(6,29,39)); lvl=4; h,r-ind=1,1
      [3,3]((9,44,59),(10,49,66),(6,29,39)); lvl=4; h,r-ind=1,1
      [3,3]((8,38,51),(6,29,39),(9,43,58)); lvl=4; h,r-ind=1,1
      [3,3]((5,24,32),(8,38,51),(6,29,39)); lvl=4; h,r-ind=1,1
      [3,3]((9,44,59),(5,24,32),(6,29,39)); lvl=4; h,r-ind=1,1
    [5,3]((9,44,59),(5,25,34),(11,54,73),(3,15,20),(3,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,20,27),(11,54,73),(5,25,34)); lvl=4; h,r-ind=1,1
      [3,3]((4,20,27),(3,16,22),(5,25,34)); lvl=4; h,r-ind=1,1
      [3,3]((3,15,20),(4,20,27),(3,16,22)); lvl=4; h,r-ind=1,1
      [3,3]((4,20,27),(10,49,66),(11,54,73)); lvl=4; h,r-ind=1,1
      [3,3]((9,44,59),(4,20,27),(10,49,66)); lvl=4; h,r-ind=1,1
      [3,3]((9,44,59),(3,15,20),(4,20,27)); lvl=4; h,r-ind=1,1
    [4,3]((5,24,32),(9,44,59),(3,15,20),(4,19,25)); lvl=3; h,r-ind=1,1
      [3,3]((9,44,59),(3,15,20),(8,39,52)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,25),(3,15,20),(8,39,52)); lvl=4; h,r-ind=1,1
      [3,3]((5,24,32),(9,44,59),(8,39,52)); lvl=4; h,r-ind=1,1
      [3,3]((5,24,32),(4,19,25),(8,39,52)); lvl=4; h,r-ind=1,1
    [4,3]((2,9,12),(5,24,32),(8,38,51),(4,19,25)); lvl=3; h,r-ind=1,1
      [3,3]((7,33,44),(5,24,32),(8,38,51)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,12),(7,33,44),(8,38,51)); lvl=4; h,r-ind=1,1
      [3,3]((7,33,44),(4,19,25),(5,24,32)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,12),(7,33,44),(4,19,25)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,4),(2,9,12),(3,13,18)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,7,10),(3,13,18),(1,5,7),(2,9,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,12,17),(3,13,18),(1,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,13),(3,12,17),(1,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,10),(2,9,13),(3,12,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,10),(3,12,17),(3,13,18)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,10),(1,3,4),(3,13,18)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((4,12,17),(2,7,10),(1,3,4)); lvl=2; h,r-ind=1,1
[3,3]((2,13,19),(3,19,27),(7,44,63)); lvl=1; h,r-ind=1,1
[3,3]((2,13,19),(2,9,13),(7,44,63)); lvl=1; h,r-ind=10,10; optimized-h
[3,3]((1,0,0),(4,12,17),(1,3,3)); lvl=1; h,r-ind=15,15; optimized-h
[3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((1,0,0),(4,12,17),(2,9,13)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((2,13,19),(1,0,0),(2,9,13)); lvl=1; h,r-ind=2,2; optimized-h
```

```
  [3,3]((0,1,0),(1,3,3),(1,5,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,5,5),(3,19,27)); lvl=1; h,r-ind=12,12; optimized-h
  [3,3]((2,13,19),(0,1,0),(3,19,27)); lvl=1; h,r-ind=3,3; optimized-h
```

19.32 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,14,19)); lvl=0; h,r-ind=19,361
  [5,3]((2,11,13),(1,4,5),(2,9,12),(1,6,8),(2,13,17)); lvl=1; h,r-ind=1,1
    [3,3]((2,9,12),(2,10,13),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(2,11,14),(2,10,13),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,14),(2,10,13),(3,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,10,13),(3,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,11,14),(3,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,6),(3,15,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,13),(1,5,6),(2,12,15)); lvl=2; h,r-ind=1,1
    [5,3]((1,5,6),(2,11,14),(2,12,15),(4,24,31),(7,41,53)); lvl=2; h,r-ind=1,1
      [4,3]((3,18,23),(5,29,37),(4,24,31),(6,35,45)); lvl=3; h,r-ind=1,1
        [3,3]((5,29,37),(6,35,45),(9,53,68)); lvl=4; h,r-ind=1,1
        [3,3]((4,24,31),(6,35,45),(9,53,68)); lvl=4; h,r-ind=1,1
        [3,3]((3,18,23),(5,29,37),(9,53,68)); lvl=4; h,r-ind=1,1
        [3,3]((4,24,31),(3,18,23),(9,53,68)); lvl=4; h,r-ind=1,1
      [3,3]((7,41,53),(4,24,31),(6,35,45)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(7,41,53),(6,35,45)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,14),(8,45,57),(5,29,37),(6,35,45)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,40,51),(8,45,57),(5,29,37)); lvl=4; h,r-ind=1,1
        [3,3]((6,35,45),(7,40,51),(5,29,37)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,14),(6,35,45),(7,40,51)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,14),(7,40,51),(8,45,57)); lvl=4; h,r-ind=1,1
      [5,3]((1,5,6),(3,18,23),(2,12,15),(8,45,57),(5,29,37)); lvl=3; h,r-ind=1,1
        [3,3]((4,23,29),(3,18,23),(2,12,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(4,23,29),(2,12,15)); lvl=4; h,r-ind=1,1
        [4,3]((10,57,72),(9,52,66),(4,23,29),(3,18,23)); lvl=4; h,r-ind=1,1
          [3,3]((3,18,23),(9,52,66),(13,75,95)); lvl=5; h,r-ind=1,1
          [3,3]((10,57,72),(9,52,66),(13,75,95)); lvl=5; h,r-ind=1,1
          [3,3]((4,23,29),(10,57,72),(13,75,95)); lvl=5; h,r-ind=1,1
          [3,3]((4,23,29),(3,18,23),(13,75,95)); lvl=5; h,r-ind=1,1
        [3,3]((9,52,66),(5,29,37),(3,18,23)); lvl=4; h,r-ind=1,1
        [4,3]((6,34,43),(10,57,72),(9,52,66),(5,29,37)); lvl=4; h,r-ind=1,1
          [3,3]((15,86,109),(9,52,66),(10,57,72)); lvl=5; h,r-ind=1,1
          [3,3]((6,34,43),(15,86,109),(10,57,72)); lvl=5; h,r-ind=1,1
          [3,3]((5,29,37),(6,34,43),(15,86,109)); lvl=5; h,r-ind=1,1
          [3,3]((5,29,37),(15,86,109),(9,52,66)); lvl=5; h,r-ind=1,1
        [3,3]((6,34,43),(5,29,37),(8,45,57)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(6,34,43),(8,45,57)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(6,34,43),(10,57,72)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(10,57,72),(4,23,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,14),(1,5,6),(8,45,57)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,17),(2,12,15),(4,24,31)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,6,8),(2,9,12),(2,10,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,11,14),(7,41,53),(1,6,8),(2,10,13)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((7,41,53),(3,17,22),(1,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,13),(3,17,22),(1,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(2,10,13),(3,17,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(7,41,53),(3,17,22)); lvl=3; h,r-ind=1,1
    [4,3]((2,13,17),(4,24,31),(7,41,53),(1,6,8)); lvl=2; h,r-ind=1,1
      [3,3]((4,24,31),(7,41,53),(5,30,39)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(7,41,53),(5,30,39)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,17),(4,24,31),(5,30,39)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(2,13,17),(5,30,39)); lvl=3; h,r-ind=1,1
  [3,3]((2,14,19),(1,6,8),(2,13,17)); lvl=1; h,r-ind=1,1
  [5,3]((0,1,0),(2,11,13),(1,5,5),(1,7,9),(2,13,17)); lvl=1; h,r-ind=1,1
    [3,3]((1,6,7),(1,5,5),(2,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,7),(2,12,15),(2,11,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,7),(2,13,16),(2,12,15),(2,13,17)); lvl=2; h,r-ind=1,1
      [3,3]((3,19,24),(2,13,17),(2,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(3,19,24),(2,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(3,19,24),(2,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,19,24),(2,12,15),(2,13,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,9),(2,13,16),(2,13,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,7),(2,12,13),(1,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(2,12,13),(1,7,7),(1,5,5)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,6,6),(2,12,13),(1,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(1,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,6,6),(2,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,7),(2,12,13),(1,7,7),(2,13,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,13,14),(2,12,13),(1,7,7)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,13,15),(2,13,14),(1,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(2,13,14),(2,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(2,13,15),(2,13,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,7),(2,13,16),(2,13,15)); lvl=2; h,r-ind=1,1
    [5,3]((0,1,0),(1,7,7),(1,7,9),(2,13,16),(2,13,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,13,15),(1,7,8),(1,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,8),(1,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,16),(2,13,15),(1,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(2,13,16),(1,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,9),(1,7,8)); lvl=3; h,r-ind=1,1
  [3,3]((2,14,19),(1,7,9),(2,13,17)); lvl=1; h,r-ind=1,1
  [3,3]((2,14,19),(0,1,0),(1,7,9)); lvl=1; h,r-ind=1,1
  [5,3]((2,11,13),(1,5,5),(1,4,5),(2,6,7),(1,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,5,6),(4,17,19),(1,5,5),(1,4,4)); lvl=2; h,r-ind=1,1
      [3,3]((4,17,19),(2,9,10),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(2,9,10),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,5),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(4,17,19),(2,9,10)); lvl=3; h,r-ind=1,1
    [4,3]((4,17,19),(2,7,8),(1,3,3),(1,4,4)); lvl=2; h,r-ind=1,1
      [4,3]((2,8,9),(2,7,8),(1,3,3),(4,15,16)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,8),(1,3,3),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,16),(1,3,3),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(4,15,16),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(2,7,8),(3,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(4,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,8,9),(4,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(4,17,19),(2,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,8),(2,6,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,8),(2,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(1,4,5),(4,17,19),(2,7,8)); lvl=2; h,r-ind=1,1
      [4,3]((2,8,9),(1,4,5),(2,7,8),(4,17,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,12,14),(2,7,8),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,17,20),(3,12,14),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(4,17,20),(3,12,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(3,12,14),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,8,9),(4,17,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,8,9),(4,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,5),(4,17,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,13),(1,5,6),(1,5,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,5),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((1,3,4),(1,4,5),(2,6,7),(2,4,5),(2,9,12)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,4),(5,15,19),(3,8,10),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,15,19),(4,11,14),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,11,14),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,15,19),(4,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,3,4),(4,11,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(3,8,10),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,12),(1,3,4),(2,7,9)); lvl=2; h,r-ind=1,1
    [6,3]((5,16,20),(2,5,6),(3,9,11),(6,19,24),(5,15,19),(3,8,10)); lvl=2; h,r-ind=1,1
      [3,3]((4,12,15),(6,19,24),(5,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,12,15),(3,8,10),(5,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(4,12,15),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,20),(4,12,15),(6,19,24)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,20),(3,9,11),(4,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,9,11),(4,12,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,6,7),(3,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(5,16,20),(2,6,7),(3,9,11)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,16),(2,6,7),(3,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,20),(4,13,16),(3,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(5,16,20),(4,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(4,13,16),(2,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(2,7,9),(6,19,24),(5,15,19)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,9),(6,19,24),(7,22,28)); lvl=3; h,r-ind=1,1
      [3,3]((5,15,19),(6,19,24),(7,22,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,15,19),(7,22,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(7,22,28)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(5,16,20),(2,7,9),(6,19,24)); lvl=2; h,r-ind=1,1
      [3,3]((5,16,20),(6,19,24),(7,23,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(6,19,24),(7,23,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(5,16,20),(7,23,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(1,4,5),(7,23,29)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(1,4,5),(2,7,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,14,19),(1,3,4),(2,9,12)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,14,19),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,4),(2,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,6,7),(1,3,3),(2,4,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,3),(2,3,3),(2,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(2,5,6),(5,13,15)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((2,6,7),(1,3,3),(1,2,2),(5,13,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,2),(3,8,9),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(3,8,9),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,15),(2,6,7),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,15),(1,2,2),(3,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(2,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(2,4,5),(2,3,3),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,5),(2,5,6),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,5,6),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(1,1,1),(2,5,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,1),(2,4,5),(5,10,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,6),(2,4,5),(5,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,5,6),(5,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,5,6),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,5,6)); lvl=4; h,r-ind=1,1
  [3,3]((2,14,19),(2,9,12),(1,6,8)); lvl=1; h,r-ind=1,1
```

19.33 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,16,19)); lvl=0; h,r-ind=19,361
  [5,3]((2,7,8),(1,7,8),(1,5,5),(1,2,2),(1,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,6,7),(2,8,9),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,8,9),(2,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,7),(5,29,33),(2,8,9),(4,19,21)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,16,18),(2,9,10),(4,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((7,37,42),(3,16,18),(2,9,10)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,6,7),(2,8,9),(7,37,42),(2,9,10)); lvl=3; h,r-ind=1,3
        [3,3]((3,15,17),(2,9,10),(2,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(3,15,17),(2,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((7,37,42),(3,15,17),(2,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(7,37,42),(3,15,17)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,7),(7,37,42),(3,16,18),(5,29,33)); lvl=3; h,r-ind=1,3
        [3,3]((4,22,25),(3,16,18),(7,37,42)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(4,22,25),(7,37,42)); lvl=4; h,r-ind=1,1
        [3,3]((5,29,33),(4,22,25),(3,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(5,29,33),(4,22,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,8),(1,6,7),(5,29,33)); lvl=2; h,r-ind=1,1
    [5,3]((1,7,8),(1,5,5),(2,7,7),(5,29,33),(4,19,21)); lvl=2; h,r-ind=1,1
      [4,3]((2,10,11),(3,13,14),(3,16,18),(4,19,21)); lvl=3; h,r-ind=1,1
        [3,3]((6,29,32),(3,13,14),(4,19,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,18),(6,29,32),(4,19,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(3,16,18),(6,29,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(6,29,32),(3,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,11),(3,17,19),(3,16,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,8),(5,29,33),(3,17,19),(3,16,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,23,26),(3,16,18),(5,29,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(4,23,26),(5,29,33)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,19),(1,7,8),(4,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,19),(4,23,26),(3,16,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(2,10,11),(3,17,19)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,8),(1,5,5),(1,4,4),(3,17,19)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,5),(2,11,12),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,19),(2,11,12),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(1,5,5),(2,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,19),(1,7,8),(2,11,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,4),(2,10,11),(2,7,7),(3,13,14)); lvl=3; h,r-ind=1,1
        [3,3]((2,10,11),(3,13,14),(4,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,7),(3,13,14),(4,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(2,7,7),(4,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(2,10,11),(4,17,18)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,7),(1,2,2),(2,8,9),(4,19,21)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((1,3,3),(1,2,2),(2,9,10),(2,8,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,2),(2,8,9),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(2,8,9),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(1,3,3),(3,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,14),(1,3,3),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,14),(4,19,21),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,7),(3,13,14),(1,3,3)); lvl=3; h,r-ind=1,1
  [4,3]((2,6,7),(2,7,8),(3,17,20),(1,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,12,14),(1,6,7),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(3,12,14),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,12,14),(3,17,20),(1,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(3,12,14),(3,17,20)); lvl=2; h,r-ind=1,1
  [3,3]((2,16,19),(3,17,20),(1,6,7)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,16,19),(2,6,7),(3,17,20)); lvl=1; h,r-ind=1,2
    [3,3]((3,17,20),(2,11,13),(2,16,19)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,0,0),(2,11,13),(2,16,19)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(3,17,20),(2,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(1,0,0),(2,11,13)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,6,7),(2,7,8),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,7),(2,7,8),(5,14,16)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(1,1,1),(2,7,8),(5,14,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,9),(5,14,16),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,8,9),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(2,7,8),(5,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,8,9),(2,7,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,1),(2,6,7),(5,14,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(3,7,8),(5,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,7,8),(5,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,6,7),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,1),(3,7,8)); lvl=3; h,r-ind=1,1
  [3,3]((2,16,19),(1,7,8),(1,6,7)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,8,9),(1,7,8),(1,5,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,6,6),(1,7,7),(3,22,24),(1,7,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,7,7),(3,22,24),(2,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(3,22,24),(2,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(1,7,8),(2,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(1,7,7),(2,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,9),(3,22,24),(1,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,5),(1,6,6),(1,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,6),(1,7,7)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,8,9),(1,7,7),(3,22,24)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,15,16),(1,8,9),(3,22,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,7),(2,15,16),(3,22,24)); lvl=3; h,r-ind=1,1
      [3,3]((3,23,24),(2,15,16),(1,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,8),(3,23,24),(1,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,8),(1,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,7),(1,8,8),(3,23,24)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(1,8,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,7),(3,23,24),(2,15,16)); lvl=3; h,r-ind=1,1
  [3,3]((2,16,19),(0,1,0),(1,8,9)); lvl=1; h,r-ind=1,1
  [3,3]((2,16,19),(1,8,9),(1,7,8)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,5),(1,2,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

19.34 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,18,19)); lvl=0; h,r-ind=19,361
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,18,19),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,5),(1,1,1)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((2,18,19),(1,5,5),(1,1,1)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((0,1,0),(1,5,5),(1,9,9)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((2,18,19),(0,1,0),(1,9,9)); lvl=1; h,r-ind=1,1
  [3,3]((2,18,19),(1,5,5),(1,9,9)); lvl=1; h,r-ind=4,4; optimized-h
```

19.35 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,3,19)); lvl=0; h,r-ind=19,361
  [3,3]((2,2,7),(1,1,6),(1,0,0)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((3,3,19),(1,1,6),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,7),(1,0,0)); lvl=1; h,r-ind=7,49; optimized-h
  [3,3]((0,1,0),(2,2,7),(1,1,6)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((3,3,19),(0,1,0),(1,1,6)); lvl=1; h,r-ind=1,1
```

19.36 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,4,19)); lvl=0; h,r-ind=19,361
  [5,3]((2,4,7),(6,8,19),(3,4,15),(2,3,11),(1,2,5)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,7),(4,6,17),(3,4,10),(3,4,12)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,8),(3,4,11),(3,4,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,17),(2,3,8),(3,4,12)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,7),(2,3,8),(3,4,10),(3,4,11)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,18),(3,4,11),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(5,7,18),(3,4,10)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,3,8),(5,7,18),(3,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,8),(5,7,18)); lvl=4; h,r-ind=1,1
  [4,3]((4,6,17),(2,3,10),(3,4,15),(3,4,12)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((2,3,9),(6,8,27),(2,3,10),(3,4,15)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,10),(7,10,33),(3,4,14),(3,4,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,24),(3,4,14),(7,10,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(5,7,24),(7,10,33)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,15),(5,7,24),(3,4,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(3,4,15),(5,7,24)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,9),(2,3,10),(7,10,33)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(7,10,33),(3,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(6,8,27),(3,4,14)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,9),(3,4,12),(6,8,27)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((4,6,17),(2,3,9),(3,4,12)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,10),(3,4,15),(2,3,11)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,10),(1,2,5),(2,3,11)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,7),(4,6,17),(1,2,4)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,4,7),(4,6,13),(2,3,7),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,13),(3,5,10),(2,3,7),(6,10,21)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,8,17),(3,5,10),(6,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(5,8,17),(6,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,13),(5,8,17),(3,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(4,6,13),(5,8,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,7),(6,10,21)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(2,4,7),(3,5,10),(6,10,21)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,7),(4,7,14),(3,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,21),(4,7,14),(3,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,7),(4,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,21),(1,2,4),(4,7,14)); lvl=4; h,r-ind=1,1
  [4,3]((4,6,17),(2,3,10),(1,2,5),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,9),(2,3,10),(1,2,5),(4,7,18)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,5),(2,3,10),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(2,3,10),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,18),(1,2,5),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(4,7,18),(3,5,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,5),(4,7,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,9),(4,7,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(4,6,17),(2,3,9)); lvl=3; h,r-ind=1,1
  [4,3]((4,6,13),(2,3,7),(6,8,19),(3,4,10)); lvl=2; h,r-ind=1,1
    [4,3]((5,7,16),(10,14,33),(3,4,10),(6,8,19)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((8,11,26),(3,4,10),(10,14,33)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,16),(8,11,26),(10,14,33)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,19),(8,11,26),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,16),(6,8,19),(8,11,26)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,7),(10,14,33),(3,4,10)); lvl=3; h,r-ind=1,1
    [4,3]((4,6,13),(5,7,16),(2,3,7),(10,14,33)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,7,16),(10,14,33),(7,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(10,14,33),(7,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,13),(2,3,7),(7,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,13),(5,7,16),(7,10,23)); lvl=4; h,r-ind=1,1
[4,3]((0,1,0),(2,3,12),(2,3,11),(1,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,6),(2,3,12),(2,3,11),(4,7,22)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,3,12),(3,5,17),(2,3,11)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,22),(3,5,17),(2,3,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(2,3,12),(3,5,17)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,22),(1,2,6),(3,5,17)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,5),(2,3,11),(4,7,22)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,5),(1,2,6),(4,7,22)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,4,11),(1,2,5),(4,7,22)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,11),(1,2,6),(4,7,22)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,11),(1,2,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,11),(1,2,5)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(2,4,7),(1,2,5)); lvl=1; h,r-ind=3,3; optimized-h
[6,3]((2,3,12),(4,5,21),(3,4,17),(3,4,15),(4,5,20),(2,3,11)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,17),(3,4,16),(2,3,12)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,11),(3,4,16),(2,3,12)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,15),(2,3,11),(3,4,16)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,21),(3,4,17),(3,4,16)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,21),(4,5,20),(3,4,16)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,15),(4,5,20),(3,4,16)); lvl=2; h,r-ind=1,1
[3,3]((3,4,19),(2,3,12),(3,4,17)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((0,1,0),(3,4,19),(2,3,12)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((3,4,19),(4,5,21),(3,4,17),(15,17,77)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,22),(4,5,21),(3,4,17)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,18),(8,10,45),(4,5,22),(3,4,17)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,40),(4,5,22),(8,10,45)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,18),(7,9,40),(8,10,45)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,40),(3,4,17),(4,5,22)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,18),(7,9,40),(3,4,17)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,19),(9,11,50),(3,4,18),(8,10,45)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((4,5,23),(15,19,86),(9,11,50),(8,10,45)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((15,19,86),(12,15,68),(8,10,45)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,50),(12,15,68),(8,10,45)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,23),(9,11,50),(12,15,68)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,23),(15,19,86),(12,15,68)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,18),(15,19,86),(8,10,45)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,23),(3,4,18),(15,19,86)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,19),(4,5,23),(3,4,18)); lvl=3; h,r-ind=1,1
  [4,3]((4,5,22),(6,7,31),(5,6,27),(4,5,21)); lvl=2; h,r-ind=1,1
    [4,3]((14,17,75),(5,6,26),(6,7,31),(5,6,27)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((10,12,53),(6,7,31),(5,6,26)); lvl=4; h,r-ind=1,1
      [3,3]((14,17,75),(10,12,53),(5,6,26)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,27),(14,17,75),(10,12,53)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,27),(10,12,53),(6,7,31)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,22),(14,17,75),(5,6,27)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,22),(14,17,75),(4,5,21),(5,6,26)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,6,26),(14,17,75),(9,11,48)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,22),(14,17,75),(9,11,48)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,21),(5,6,26),(9,11,48)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,22),(4,5,21),(9,11,48)); lvl=4; h,r-ind=1,1
  [3,3]((7,8,36),(6,7,31),(5,6,27)); lvl=2; h,r-ind=1,1
  [4,3]((9,11,50),(7,8,36),(6,7,32),(5,6,27)); lvl=2; h,r-ind=1,1
    [3,3]((11,13,59),(6,7,32),(7,8,36)); lvl=3; h,r-ind=1,1
    [3,3]((11,13,59),(5,6,27),(7,8,36)); lvl=3; h,r-ind=1,1
    [3,3]((9,11,50),(11,13,59),(5,6,27)); lvl=3; h,r-ind=1,1
    [3,3]((9,11,50),(11,13,59),(6,7,32)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,19),(9,11,50),(6,7,32)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((15,17,77),(7,8,36),(6,7,32)); lvl=2; h,r-ind=1,1
  [4,3]((9,11,50),(8,10,45),(4,5,22),(5,6,27)); lvl=2; h,r-ind=1,1
    [3,3]((8,10,45),(4,5,22),(13,16,72)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,27),(4,5,22),(13,16,72)); lvl=3; h,r-ind=1,1
    [3,3]((9,11,50),(8,10,45),(13,16,72)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,27),(9,11,50),(13,16,72)); lvl=3; h,r-ind=1,1
[5,3]((0,1,0),(1,0,0),(2,4,7),(6,8,19),(2,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,2),(4,5,12),(4,5,11),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,12),(4,5,11),(5,6,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(4,5,11),(5,6,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,5),(5,6,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,5),(4,5,12),(5,6,14)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,8),(1,1,2),(4,5,11)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,8),(2,3,5),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,2),(2,2,3),(2,3,5),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(2,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,4),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(1,2,2),(2,3,4)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(1,2,2),(2,2,3)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((1,1,1),(0,1,0),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,1
  [6,3]((3,4,8),(6,8,19),(4,5,12),(4,6,13),(2,3,6),(4,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,9),(3,4,8),(4,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,12),(3,4,9),(4,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((6,8,19),(4,5,12),(3,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,9),(2,3,6),(3,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,13),(3,4,9),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,13),(5,7,16),(3,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((6,8,19),(5,7,16),(3,4,9)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,3),(3,4,8),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(3,4,8),(4,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(3,4,8),(4,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(4,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,6,11)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,2),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,2),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,5),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
  [4,3]((2,4,7),(1,2,3),(4,6,13),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,13),(3,5,10),(2,3,6),(6,10,19)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,8,16),(3,5,10),(6,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((5,8,16),(2,3,6),(6,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,13),(5,8,16),(2,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,13),(5,8,16),(3,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(6,10,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(2,4,7),(3,5,10),(6,10,19)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,7),(4,7,13),(3,5,10)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((6,10,19),(4,7,13),(3,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(6,10,19),(4,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,7),(4,7,13)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,7),(1,2,3)); lvl=2; h,r-ind=1,1
[5,3]((1,1,4),(6,8,19),(2,2,5),(3,4,15),(4,5,20)); lvl=1; h,r-ind=1,1
  [4,3]((4,5,19),(8,10,31),(1,1,3),(1,1,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(4,5,17),(4,5,16),(8,9,31)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,17),(5,6,20),(4,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(5,6,20),(4,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(12,14,47),(5,6,20)); lvl=4; h,r-ind=1,1
      [4,3]((6,7,24),(12,14,47),(4,5,17),(5,6,20)); lvl=4; h,r-ind=1,1
        [3,3]((11,13,44),(12,14,47),(5,6,20)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,17),(11,13,44),(5,6,20)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,24),(4,5,17),(11,13,44)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,24),(11,13,44),(12,14,47)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,3),(6,7,24),(8,9,31),(12,14,47)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,31),(7,8,27),(6,7,24)); lvl=5; h,r-ind=1,1
        [3,3]((12,14,47),(7,8,27),(6,7,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(12,14,47),(7,8,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(8,9,31),(7,8,27)); lvl=5; h,r-ind=1,1
    [3,3]((1,1,4),(1,1,3),(8,9,31)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(8,10,31),(4,5,16)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,19),(1,1,4),(4,5,17),(8,9,31)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,1,4),(6,7,25),(6,7,24),(8,9,31)); lvl=4; h,r-ind=1,2
        [3,3]((6,7,24),(6,7,25),(7,8,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(6,7,25),(7,8,28)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,31),(6,7,24),(7,8,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(8,9,31),(7,8,28)); lvl=5; h,r-ind=1,1
      [4,3]((4,5,19),(4,5,18),(1,1,4),(6,7,25)); lvl=4; h,r-ind=1,2
        [3,3]((4,5,18),(6,7,25),(5,6,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(6,7,25),(5,6,22)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,19),(4,5,18),(5,6,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(4,5,19),(5,6,22)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,17),(6,7,25),(6,7,24)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((4,5,17),(4,5,18),(6,7,25)); lvl=4; h,r-ind=2,2; optimized-h
  [3,3]((4,5,19),(4,5,20),(1,1,4)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,15),(4,5,19),(4,5,20)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,15),(3,4,12),(4,5,19),(8,10,31)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(8,10,31),(4,5,16)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,12),(6,8,27),(4,5,17),(4,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,17),(3,4,13),(11,14,46)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,12),(4,5,16),(3,4,13),(11,14,46)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,9,29),(11,14,46),(4,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,12),(7,9,29),(4,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((7,9,29),(3,4,13),(11,14,46)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,12),(7,9,29),(3,4,13)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,16),(4,5,17),(11,14,46)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,17),(6,8,27),(3,4,13)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,15),(6,8,27),(4,5,19),(4,5,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,14),(4,5,17),(4,5,18)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,15),(3,4,14),(4,5,19),(4,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,33),(4,5,18),(4,5,19)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,15),(7,9,33),(4,5,19)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,14),(7,9,33),(4,5,18)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,15),(3,4,14),(7,9,33)); lvl=5; h,r-ind=1,1
      [3,3]((6,8,27),(3,4,14),(4,5,17)); lvl=4; h,r-ind=1,1
  [4,3]((3,4,10),(3,4,12),(8,10,31),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,15),(8,10,31),(3,4,12)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,11),(8,10,29),(4,5,15),(3,4,12)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,26),(4,5,15),(8,10,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,11),(7,9,26),(8,10,29)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,26),(3,4,12),(4,5,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,11),(7,9,26),(3,4,12)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,15),(1,1,3),(8,10,31)); lvl=3; h,r-ind=1,1
    [3,3]((8,10,29),(4,5,15),(1,1,3)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,10),(3,4,11),(8,10,29),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,14),(3,4,11),(8,10,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,14),(8,10,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(4,5,14),(3,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,10),(4,5,14)); lvl=4; h,r-ind=1,1
  [3,3]((3,4,10),(1,1,3),(4,5,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,3),(4,5,12),(2,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((6,8,19),(3,4,10),(4,5,12)); lvl=2; h,r-ind=1,1
[5,3]((4,5,21),(15,17,77),(2,2,9),(1,1,4),(4,5,20)); lvl=1; h,r-ind=1,1
  [3,3]((13,14,61),(2,2,9),(1,1,4)); lvl=2; h,r-ind=1,1
  [4,3]((7,8,35),(13,14,61),(5,6,25),(1,1,4)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
    [4,3]((10,11,48),(9,10,43),(1,1,4),(13,14,61)); lvl=3; h,r-ind=1,2
      [3,3]((9,10,43),(11,12,52),(1,1,4)); lvl=4; h,r-ind=1,1
      [3,3]((13,14,61),(11,12,52),(1,1,4)); lvl=4; h,r-ind=1,1
      [3,3]((10,11,48),(13,14,61),(11,12,52)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((10,11,48),(9,10,43),(11,12,52)); lvl=4; h,r-ind=1,1
    [4,3]((5,6,25),(9,10,43),(6,7,30),(1,1,4)); lvl=3; h,r-ind=1,2
      [3,3]((6,7,30),(9,10,43),(7,8,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(9,10,43),(7,8,34)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,25),(1,1,4),(7,8,34)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,25),(6,7,30),(7,8,34)); lvl=4; h,r-ind=1,1
    [3,3]((7,8,35),(10,11,48),(9,10,43)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((7,8,35),(9,10,43),(6,7,30)); lvl=3; h,r-ind=2,2; optimized-h
  [3,3]((5,6,25),(4,5,20),(1,1,4)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,21),(5,6,25),(4,5,20)); lvl=2; h,r-ind=1,1
  [4,3]((4,5,21),(6,7,31),(7,8,35),(5,6,25)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((5,6,26),(6,7,30),(7,8,35),(6,7,31)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,35),(6,7,30),(12,14,61)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,26),(6,7,30),(12,14,61)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,31),(5,6,26),(12,14,61)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,31),(7,8,35),(12,14,61)); lvl=4; h,r-ind=1,1
    [4,3]((5,6,26),(4,5,21),(5,6,25),(6,7,30)); lvl=3; h,r-ind=1,1
      [3,3]((10,12,51),(5,6,25),(4,5,21)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,26),(10,12,51),(4,5,21)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,30),(10,12,51),(5,6,25)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,26),(6,7,30),(10,12,51)); lvl=4; h,r-ind=1,1
  [5,3]((6,7,31),(7,8,35),(13,14,61),(7,8,36),(2,2,9)); lvl=2; h,r-ind=1,1
    [4,3]((10,11,48),(11,12,53),(13,14,61),(2,2,9)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((11,12,53),(2,2,9),(12,13,57)); lvl=4; h,r-ind=1,1
      [3,3]((13,14,61),(2,2,9),(12,13,57)); lvl=4; h,r-ind=1,1
      [3,3]((10,11,48),(11,12,53),(12,13,57)); lvl=4; h,r-ind=1,1
      [3,3]((13,14,61),(10,11,48),(12,13,57)); lvl=4; h,r-ind=1,1
    [4,3]((17,19,84),(8,9,40),(11,12,53),(2,2,9)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,40),(2,2,9),(19,21,93)); lvl=4; h,r-ind=1,1
      [3,3]((11,12,53),(2,2,9),(19,21,93)); lvl=4; h,r-ind=1,1
      [3,3]((17,19,84),(8,9,40),(19,21,93)); lvl=4; h,r-ind=1,1
      [3,3]((11,12,53),(17,19,84),(19,21,93)); lvl=4; h,r-ind=1,1
    [3,3]((7,8,36),(8,9,40),(2,2,9)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,31),(7,8,36),(8,9,40)); lvl=3; h,r-ind=1,1
    [5,3]((15,17,75),(7,8,35),(10,11,48),(17,19,84),(11,12,53)); lvl=3; h,r-ind=1,1
      [3,3]((10,11,48),(9,10,44),(11,12,53)); lvl=4; h,r-ind=1,1
      [3,3]((17,19,84),(9,10,44),(11,12,53)); lvl=4; h,r-ind=1,1
      [3,3]((15,17,75),(17,19,84),(9,10,44)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,35),(10,11,48),(9,10,44)); lvl=4; h,r-ind=1,1
      [3,3]((15,17,75),(7,8,35),(9,10,44)); lvl=4; h,r-ind=1,1
    [4,3]((6,7,31),(15,17,75),(17,19,84),(8,9,40)); lvl=3; h,r-ind=1,1
      [3,3]((23,26,115),(17,19,84),(15,17,75)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,31),(23,26,115),(15,17,75)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,40),(23,26,115),(17,19,84)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,31),(8,9,40),(23,26,115)); lvl=4; h,r-ind=1,1
    [3,3]((6,7,31),(15,17,75),(7,8,35)); lvl=3; h,r-ind=1,1
  [3,3]((15,17,77),(7,8,36),(2,2,9)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(2,2,9),(1,1,4)); lvl=1; h,r-ind=1,1
[4,3]((3,4,19),(15,17,77),(1,0,0),(2,2,9)); lvl=1; h,r-ind=1,1
  [4,3]((15,17,77),(6,7,32),(9,10,46),(2,2,9)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((8,9,41),(6,7,32),(9,10,46)); lvl=3; h,r-ind=1,1
    [3,3]((8,9,41),(2,2,9),(9,10,46)); lvl=3; h,r-ind=1,1
    [3,3]((15,17,77),(8,9,41),(2,2,9)); lvl=3; h,r-ind=1,1
    [3,3]((15,17,77),(8,9,41),(6,7,32)); lvl=3; h,r-ind=1,1
  [4,3]((5,5,23),(12,13,60),(9,10,46),(2,2,9)); lvl=2; h,r-ind=1,1
    [3,3]((9,10,46),(12,13,60),(14,15,69)); lvl=3; h,r-ind=1,1
    [3,3]((5,5,23),(12,13,60),(14,15,69)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,9),(5,5,23),(14,15,69)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,9),(9,10,46),(14,15,69)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(5,5,23),(2,2,9)); lvl=2; h,r-ind=1,1
  [3,3]((6,7,32),(9,10,46),(5,6,28)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((3,4,19),(6,7,32),(5,6,28)); lvl=2; h,r-ind=1,1
  [4,3]((8,9,42),(12,13,60),(9,10,46),(5,6,28)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((10,11,51),(7,8,37),(12,13,60),(9,10,46)); lvl=3; h,r-ind=1,1
      [3,3]((19,21,97),(9,10,46),(7,8,37)); lvl=4; h,r-ind=1,1
      [3,3]((10,11,51),(19,21,97),(7,8,37)); lvl=4; h,r-ind=1,1
      [3,3]((12,13,60),(10,11,51),(19,21,97)); lvl=4; h,r-ind=1,1
      [3,3]((12,13,60),(19,21,97),(9,10,46)); lvl=4; h,r-ind=1,1
    [4,3]((8,9,42),(10,11,51),(5,6,28),(7,8,37)); lvl=3; h,r-ind=1,1
      [3,3]((15,17,79),(7,8,37),(10,11,51)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,42),(15,17,79),(10,11,51)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,28),(8,9,42),(15,17,79)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,28),(15,17,79),(7,8,37)); lvl=4; h,r-ind=1,1
  [3,3]((3,4,19),(8,9,42),(5,6,28)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(5,5,23),(8,9,42),(12,13,60)); lvl=2; h,r-ind=1,1
    [3,3]((15,16,74),(10,11,51),(12,13,60)); lvl=3; h,r-ind=1,1
    [4,3]((5,5,23),(15,16,74),(23,24,111),(12,13,60)); lvl=3; h,r-ind=1,1
      [3,3]((20,21,97),(23,24,111),(15,16,74)); lvl=4; h,r-ind=1,1
      [3,3]((12,13,60),(20,21,97),(15,16,74)); lvl=4; h,r-ind=1,1
      [3,3]((5,5,23),(12,13,60),(20,21,97)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((5,5,23),(20,21,97),(23,24,111)); lvl=4; h,r-ind=1,1
      [4,3]((3,3,14),(1,0,0),(5,5,23),(23,24,111)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((1,0,0),(8,8,37),(5,5,23)); lvl=4; h,r-ind=1,1
        [3,3]((23,24,111),(8,8,37),(5,5,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,14),(23,24,111),(8,8,37)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,14),(1,0,0),(8,8,37)); lvl=4; h,r-ind=1,1
      [4,3]((3,3,14),(15,16,74),(23,24,111),(10,11,51)); lvl=3; h,r-ind=1,1
        [3,3]((23,24,111),(18,19,88),(15,16,74)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,51),(18,19,88),(15,16,74)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,14),(23,24,111),(18,19,88)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,51),(3,3,14),(18,19,88)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,42),(3,3,14),(10,11,51)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,19),(1,0,0),(8,9,42)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(1,1,4),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
```

19.37 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,5,19)); lvl=0; h,r-ind=19,361
  [5,3]((3,5,15),(2,3,9),(2,3,6),(1,2,5),(2,4,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,4),(2,4,7),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,15),(3,5,12),(1,2,4),(2,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,12),(6,10,23),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(6,10,23),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,6),(1,2,4)); lvl=3; h,r-ind=1,1
      [4,3]((4,6,15),(2,3,7),(3,5,12),(6,10,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,12),(5,8,19),(6,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(5,8,19),(6,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(3,5,12),(5,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(4,6,15),(5,8,19)); lvl=4; h,r-ind=1,1
    [4,3]((3,5,12),(3,5,14),(1,2,5),(1,2,4)); lvl=2; h,r-ind=1,1
      [4,3]((3,5,13),(5,9,22),(3,5,14),(1,2,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,7,18),(1,2,5),(5,9,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,13),(4,7,18),(5,9,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,14),(4,7,18),(1,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,13),(3,5,14),(4,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(5,9,22),(1,2,5)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,12),(3,5,13),(1,2,4),(5,9,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,7,17),(5,9,22),(3,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,12),(4,7,17),(3,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(3,5,12),(4,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(4,7,17),(5,9,22)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,15),(3,5,14),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,9),(4,6,15),(3,5,12),(3,5,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,8),(3,5,12),(3,5,13)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,14),(2,3,9),(2,3,8),(3,5,13)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,9),(2,3,8),(5,8,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,13),(2,3,8),(5,8,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,14),(2,3,9),(5,8,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,13),(3,5,14),(5,8,22)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,15),(2,3,8),(3,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,15),(2,3,9),(3,5,14)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,5),(2,4,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,2,6),(0,1,0),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,19),(1,2,6),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,6),(0,1,0),(1,0,0),(2,4,7)); lvl=1; h,r-ind=1,2
    [3,3]((1,0,0),(1,1,2),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((1,2,3),(1,1,2),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(2,4,7),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((1,2,3),(0,1,0),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,7),(1,2,3),(0,1,0)); lvl=2; h,r-ind=1,1
  [6,3]((3,5,17),(3,4,14),(5,8,28),(3,5,15),(2,3,9),(4,5,17)); lvl=1; h,r-ind=2,1
    [3,3]((2,3,10),(3,4,13),(4,5,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,14),(2,3,10),(4,5,17)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,21),(3,4,14),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,28),(4,6,21),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,17),(5,8,28),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(2,3,9),(3,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,15),(2,3,10),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,15),(3,5,16),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,17),(3,5,16),(2,3,10)); lvl=2; h,r-ind=1,1
  [5,3]((2,3,9),(4,5,17),(2,2,7),(2,3,6),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,3),(2,2,7),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,2),(1,0,0)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(2,3,6),(4,6,15),(1,1,2)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,2),(4,5,12),(2,3,7),(2,3,6)); lvl=3; h,r-ind=1,2; alert-r-inc
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      [3,3]((3,4,9),(4,5,12),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(3,4,9),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,9),(4,5,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,2),(4,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(4,5,12),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(4,6,15),(2,3,7)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,9),(1,1,3),(4,6,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((4,5,17),(1,1,3),(2,2,7)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,17),(3,4,13),(1,1,3)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,9),(3,4,13),(1,1,3)); lvl=2; h,r-ind=1,1
[3,3]((5,5,18),(2,2,7),(1,0,0)); lvl=1; h,r-ind=1,1
[4,3]((3,5,19),(9,11,40),(5,5,18),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,15),(8,10,37),(11,13,48),(6,7,26)); lvl=2; h,r-ind=1,1
    [3,3]((14,17,63),(11,13,48),(8,10,37)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,15),(14,17,63),(8,10,37)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,26),(3,4,15),(14,17,63)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,26),(14,17,63),(11,13,48)); lvl=3; h,r-ind=1,1
  [4,3]((3,3,11),(8,9,33),(11,13,48),(6,7,26)); lvl=2; h,r-ind=1,1
    [3,3]((8,9,33),(11,13,48),(14,16,59)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,26),(11,13,48),(14,16,59)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,11),(8,9,33),(14,16,59)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,26),(3,3,11),(14,16,59)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,11),(6,7,26)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,11),(5,5,18)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,4,15),(6,7,26)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,19),(1,0,0),(3,4,15)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,19),(12,16,59),(3,4,15),(8,10,37)); lvl=2; h,r-ind=1,1
    [3,3]((13,17,63),(10,13,48),(8,10,37)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,15),(21,28,104),(13,17,63),(8,10,37)); lvl=3; h,r-ind=1,1
      [3,3]((16,21,78),(21,28,104),(13,17,63)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,37),(16,21,78),(13,17,63)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,15),(8,10,37),(16,21,78)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,15),(16,21,78),(21,28,104)); lvl=4; h,r-ind=1,1
    [4,3]((3,5,19),(5,7,26),(3,4,15),(21,28,104)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((3,4,15),(21,28,104),(8,11,41)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,26),(21,28,104),(8,11,41)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,19),(3,4,15),(8,11,41)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,26),(3,5,19),(8,11,41)); lvl=4; h,r-ind=1,1
    [4,3]((5,7,26),(21,28,104),(13,17,63),(10,13,48)); lvl=3; h,r-ind=1,1
      [3,3]((18,24,89),(13,17,63),(21,28,104)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,26),(18,24,89),(21,28,104)); lvl=4; h,r-ind=1,1
      [3,3]((18,24,89),(10,13,48),(13,17,63)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,26),(18,24,89),(10,13,48)); lvl=4; h,r-ind=1,1
    [3,3]((5,7,26),(12,16,59),(10,13,48)); lvl=3; h,r-ind=1,1
  [6,3]((12,16,59),(9,11,40),(7,8,29),(8,9,33),(8,10,37),(11,13,48)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,22),(9,11,40),(7,9,33)); lvl=3; h,r-ind=1,1
    [4,3]((12,16,59),(10,13,48),(5,6,22),(7,9,33)); lvl=3; h,r-ind=1,1
      [3,3]((17,22,81),(5,6,22),(10,13,48)); lvl=4; h,r-ind=1,1
      [3,3]((12,16,59),(17,22,81),(10,13,48)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,33),(17,22,81),(5,6,22)); lvl=4; h,r-ind=1,1
      [3,3]((12,16,59),(7,9,33),(17,22,81)); lvl=4; h,r-ind=1,1
    [3,3]((8,10,37),(10,13,48),(5,6,22)); lvl=3; h,r-ind=1,1
    [3,3]((8,10,37),(5,6,22),(11,13,48)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,22),(8,9,33),(11,13,48)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,22),(7,8,29),(9,11,40)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,22),(8,9,33),(7,8,29)); lvl=3; h,r-ind=1,1
  [4,3]((3,3,11),(5,5,18),(7,8,29),(8,9,33)); lvl=2; h,r-ind=1,1
    [3,3]((5,5,18),(7,8,29),(10,11,40)); lvl=3; h,r-ind=1,1
    [3,3]((8,9,33),(7,8,29),(10,11,40)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,11),(5,5,18),(10,11,40)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,11),(8,9,33),(10,11,40)); lvl=3; h,r-ind=1,1
[5,3]((9,11,40),(5,5,18),(3,4,14),(4,5,17),(2,2,7)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,21),(4,5,17),(2,2,7)); lvl=2; h,r-ind=1,1
  [4,3]((5,6,21),(19,21,75),(6,7,25),(2,2,7)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((6,7,25),(19,21,75),(8,9,32)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,7),(19,21,75),(8,9,32)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,21),(2,2,7),(8,9,32)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,21),(6,7,25),(8,9,32)); lvl=3; h,r-ind=1,1
  [4,3]((11,12,43),(19,21,75),(5,5,18),(2,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,7),(5,5,18),(13,14,50)); lvl=3; h,r-ind=1,1
    [3,3]((11,12,43),(5,5,18),(13,14,50)); lvl=3; h,r-ind=1,1
    [3,3]((11,12,43),(19,21,75),(13,14,50)); lvl=3; h,r-ind=1,1
    [3,3]((19,21,75),(2,2,7),(13,14,50)); lvl=3; h,r-ind=1,1
  [3,3]((7,8,29),(11,12,43),(5,5,18)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((7,8,29),(11,12,43),(19,21,75),(6,7,25),(4,5,18)); lvl=2; h,r-ind=1,1
    [4,3]((9,10,36),(15,17,61),(17,19,68),(11,12,43)); lvl=3; h,r-ind=1,1
      [3,3]((26,29,104),(17,19,68),(15,17,61)); lvl=4; h,r-ind=1,1
      [3,3]((9,10,36),(26,29,104),(15,17,61)); lvl=4; h,r-ind=1,1
      [3,3]((11,12,43),(9,10,36),(26,29,104)); lvl=4; h,r-ind=1,1
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      [3,3]((11,12,43),(26,29,104),(17,19,68)); lvl=4; h,r-ind=1,1
    [3,3]((19,21,75),(17,19,68),(11,12,43)); lvl=3; h,r-ind=1,1
    [4,3]((15,17,61),(17,19,68),(6,7,25),(25,29,104)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((17,19,68),(6,7,25),(21,24,86)); lvl=4; h,r-ind=1,1
      [3,3]((25,29,104),(6,7,25),(21,24,86)); lvl=4; h,r-ind=1,1
      [3,3]((15,17,61),(25,29,104),(21,24,86)); lvl=4; h,r-ind=1,1
      [3,3]((15,17,61),(17,19,68),(21,24,86)); lvl=4; h,r-ind=1,1
    [3,3]((19,21,75),(17,19,68),(6,7,25)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,18),(6,7,25),(25,29,104)); lvl=3; h,r-ind=1,1
    [5,3]((7,8,29),(9,10,36),(4,5,18),(15,17,61),(25,29,104)); lvl=3; h,r-ind=1,1
      [3,3]((25,29,104),(19,22,79),(15,17,61)); lvl=4; h,r-ind=1,1
      [4,3]((28,32,115),(32,37,133),(19,22,79),(15,17,61)); lvl=4; h,r-ind=1,1
        [3,3]((32,37,133),(19,22,79),(47,54,194)); lvl=5; h,r-ind=1,1
        [3,3]((15,17,61),(19,22,79),(47,54,194)); lvl=5; h,r-ind=1,1
        [3,3]((28,32,115),(32,37,133),(47,54,194)); lvl=5; h,r-ind=1,1
        [3,3]((15,17,61),(28,32,115),(47,54,194)); lvl=5; h,r-ind=1,1
      [3,3]((9,10,36),(28,32,115),(15,17,61)); lvl=4; h,r-ind=1,1
      [4,3]((13,15,54),(9,10,36),(28,32,115),(32,37,133)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,36),(28,32,115),(41,47,169)); lvl=5; h,r-ind=1,1
        [3,3]((32,37,133),(28,32,115),(41,47,169)); lvl=5; h,r-ind=1,1
        [3,3]((13,15,54),(32,37,133),(41,47,169)); lvl=5; h,r-ind=1,1
        [3,3]((13,15,54),(9,10,36),(41,47,169)); lvl=5; h,r-ind=1,1
      [3,3]((7,8,29),(13,15,54),(9,10,36)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,18),(25,29,104),(19,22,79)); lvl=4; h,r-ind=1,1
      [3,3]((32,37,133),(4,5,18),(19,22,79)); lvl=4; h,r-ind=1,1
      [3,3]((13,15,54),(32,37,133),(4,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,29),(13,15,54),(4,5,18)); lvl=4; h,r-ind=1,1
  [3,3]((7,8,29),(9,11,40),(4,5,18)); lvl=2; h,r-ind=1,1
  [3,3]((5,6,21),(3,4,14),(4,5,17)); lvl=2; h,r-ind=1,1
  [4,3]((5,6,21),(6,7,25),(3,4,14),(4,5,18)); lvl=2; h,r-ind=1,1
    [3,3]((9,11,39),(4,5,18),(6,7,25)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,21),(9,11,39),(6,7,25)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,14),(9,11,39),(4,5,18)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,21),(3,4,14),(9,11,39)); lvl=3; h,r-ind=1,1
[5,3]((1,2,6),(3,5,17),(7,12,41),(3,5,15),(1,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((4,7,22),(4,7,23),(6,11,33),(1,2,6)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((5,9,28),(4,7,23),(1,2,6)); lvl=3; h,r-ind=1,1
    [3,3]((6,11,33),(5,9,28),(1,2,6)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,22),(6,11,33),(5,9,28)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,22),(5,9,28),(4,7,23)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,5),(6,11,33),(1,2,6)); lvl=2; h,r-ind=1,1
  [3,3]((7,12,41),(4,7,23),(1,2,6)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,17),(7,12,41),(4,7,23)); lvl=2; h,r-ind=1,1
  [5,3]((3,5,16),(3,5,15),(1,2,5),(4,7,22),(6,11,33)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(6,11,33),(5,9,27)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,22),(6,11,33),(5,9,27)); lvl=3; h,r-ind=1,1
    [4,3]((8,14,43),(9,16,48),(4,7,22),(5,9,27)); lvl=3; h,r-ind=1,1
      [3,3]((13,23,70),(5,9,27),(9,16,48)); lvl=4; h,r-ind=1,1
      [3,3]((8,14,43),(13,23,70),(9,16,48)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,22),(8,14,43),(13,23,70)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,22),(13,23,70),(5,9,27)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,16),(8,14,43),(4,7,22)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,16),(4,7,21),(8,14,43),(9,16,48)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,21),(12,21,64),(9,16,48)); lvl=4; h,r-ind=1,1
      [3,3]((8,14,43),(12,21,64),(9,16,48)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,16),(4,7,21),(12,21,64)); lvl=4; h,r-ind=1,1
      [3,3]((8,14,43),(3,5,16),(12,21,64)); lvl=4; h,r-ind=1,1
    [3,3]((9,16,48),(1,2,5),(5,9,27)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,21),(9,16,48),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,21),(3,5,15),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,16),(4,7,21),(3,5,15)); lvl=3; h,r-ind=1,1
  [4,3]((3,5,17),(3,5,16),(4,7,22),(4,7,23)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,16),(4,7,22),(7,12,39)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,23),(4,7,22),(7,12,39)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,17),(3,5,16),(7,12,39)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,23),(3,5,17),(7,12,39)); lvl=3; h,r-ind=1,1
[4,3]((3,5,17),(7,12,41),(5,8,28),(3,5,18)); lvl=1; h,r-ind=1,1
  [3,3]((6,10,35),(3,5,18),(7,12,41)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,17),(6,10,35),(7,12,41)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,17),(5,8,28),(6,10,35)); lvl=2; h,r-ind=1,1
  [3,3]((5,8,28),(6,10,35),(3,5,18)); lvl=2; h,r-ind=1,1
[5,3]((3,5,19),(9,11,40),(3,4,14),(5,8,28),(3,5,18)); lvl=1; h,r-ind=1,1
  [4,3]((4,5,18),(9,11,40),(12,16,59),(2,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,11),(7,9,33),(12,16,59)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,11),(13,17,62),(7,9,33)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,11),(4,5,18),(13,17,62)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,18),(13,17,62),(7,9,33),(9,11,40)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((11,14,51),(13,17,62),(7,9,33)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,40),(11,14,51),(7,9,33)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,18),(9,11,40),(11,14,51)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((4,5,18),(11,14,51),(13,17,62)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,19),(12,16,59),(2,3,11)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,4,14),(4,5,18),(2,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,14),(4,6,21),(2,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,21),(5,8,28),(2,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,18),(5,8,28),(2,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,19),(3,5,18),(2,3,11)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,19),(1,2,6),(7,12,41),(3,5,18)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,6),(4,7,24),(7,12,41)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,18),(4,7,24),(7,12,41)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,19),(3,5,18),(4,7,24)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,19),(1,2,6),(4,7,24)); lvl=2; h,r-ind=1,1
```

19.38 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,6,19)); lvl=0; h,r-ind=19,361
  [5,3]((1,1,2),(2,3,9),(1,1,3),(2,4,7),(1,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,4),(2,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(4,5,12),(2,3,7),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,9),(2,3,7),(4,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,9),(4,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,9),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,7),(2,3,8),(1,2,5),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,12),(1,2,5),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(3,5,12),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,7),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,12),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,8),(2,3,9),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(4,5,12),(1,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,12),(2,3,7),(2,3,8),(1,1,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,7),(2,3,8),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,8),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(2,3,7),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,12),(3,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,8),(2,3,9),(1,1,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,7),(1,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,2,6),(2,3,9),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,6),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,19),(1,2,6),(2,3,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,6,19),(1,2,6)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,19),(2,3,9),(1,1,3)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(1,1,2),(2,4,7)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(1,1,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,2),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(1,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(1,0,0),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,1),(5,6,8),(1,0,0),(2,2,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,4),(5,6,8),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(5,6,8),(2,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(1,1,1),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,2),(1,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,7),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,7),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,19),(1,0,0),(1,1,3)); lvl=1; h,r-ind=1,1
```

19.39 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,7,19)); lvl=0; h,r-ind=19,361
  [5,3]((1,3,4),(2,6,7),(2,5,9),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,4),(2,5,8),(4,10,15),(3,8,11)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((2,5,8),(4,10,15),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,11),(4,10,15),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,8),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,11),(1,3,4),(5,13,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(3,7,11),(4,10,15),(3,8,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,11),(9,22,33),(4,10,15)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,7),(3,8,11),(9,22,33),(4,10,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,11),(6,15,22),(4,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((9,22,33),(6,15,22),(4,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,7),(3,8,11),(6,15,22)); lvl=4; h,r-ind=1,1
        [3,3]((9,22,33),(2,5,7),(6,15,22)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(2,5,7),(3,7,11),(9,22,33)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,18),(9,22,33),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(5,12,18),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,18),(3,7,11),(9,22,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(5,12,18),(3,7,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(3,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,7),(3,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,6,7),(3,8,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,4),(2,5,9),(2,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,9),(2,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(3,7,11),(2,5,8),(4,10,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,8),(4,10,15),(5,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,11),(4,10,15),(5,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,8),(5,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,11),(1,2,4),(5,12,19)); lvl=3; h,r-ind=1,1
  [5,3]((1,0,0),(2,2,5),(2,3,7),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,7),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,4),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,5),(2,3,7),(1,2,4)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,5),(2,2,5),(3,5,13),(2,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,5),(3,5,13),(3,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(3,5,13),(3,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,7),(3,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(2,2,5),(3,4,10)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(3,6,16),(2,2,5),(3,5,13)); lvl=1; h,r-ind=1,1
    [4,3]((3,6,16),(2,3,8),(3,5,13),(7,10,26)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,8,21),(7,10,26),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,16),(5,8,21),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(3,6,16),(5,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(5,8,21),(7,10,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,5),(3,5,13),(7,10,26)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,2,5),(2,3,8),(7,10,26)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,13),(2,2,5),(7,10,26)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,13),(2,3,8),(7,10,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(4,5,13),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(4,5,13),(2,2,5)); lvl=3; h,r-ind=1,1
  [3,3]((3,6,16),(1,2,5),(3,5,13)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,6,7),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,3),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(0,1,0),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,4),(2,6,7)); lvl=1; h,r-ind=1,1
  [5,3]((1,2,5),(2,5,9),(2,5,12),(5,12,30),(1,2,4)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,5),(3,7,17),(6,13,29),(6,14,31)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,7,16),(4,9,20),(9,20,46)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,5),(3,7,17),(3,7,16),(9,20,46)); lvl=3; h,r-ind=1,3
        [3,3]((4,9,21),(3,7,16),(3,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(4,9,21),(3,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((9,20,46),(4,9,21),(3,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(9,20,46),(4,9,21)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,5),(6,13,29),(4,9,20),(9,20,46)); lvl=3; h,r-ind=1,3
        [3,3]((4,9,20),(6,13,29),(5,11,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(6,13,29),(5,11,25)); lvl=4; h,r-ind=1,1
        [3,3]((9,20,46),(1,2,5),(5,11,25)); lvl=4; h,r-ind=1,1
        [3,3]((9,20,46),(4,9,20),(5,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,16),(4,9,20),(6,14,31)); lvl=3; h,r-ind=1,1
    [5,3]((2,5,9),(4,10,21),(1,2,4),(6,13,29),(6,14,31)); lvl=2; h,r-ind=1,1
      [4,3]((4,9,20),(3,7,15),(5,12,26),(6,14,31)); lvl=3; h,r-ind=1,1
        [3,3]((9,21,46),(5,12,26),(3,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,20),(9,21,46),(3,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,31),(9,21,46),(5,12,26)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((4,9,20),(6,14,31),(9,21,46)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,19),(4,9,20),(3,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(4,9,19),(3,7,15)); lvl=3; h,r-ind=1,1
      [4,3]((4,9,19),(1,2,4),(6,13,29),(4,9,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,4),(6,13,29),(5,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,20),(6,13,29),(5,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,19),(1,2,4),(5,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,20),(4,9,19),(5,11,24)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,9),(2,5,10),(4,9,19),(1,2,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,14),(2,5,10),(4,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(3,7,14),(4,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(1,2,4),(3,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(3,7,14),(2,5,10)); lvl=4; h,r-ind=1,1
      [4,3]((4,10,21),(2,5,10),(3,7,15),(5,12,26)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,15),(2,5,10),(7,17,36)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,21),(2,5,10),(7,17,36)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,26),(4,10,21),(7,17,36)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,26),(3,7,15),(7,17,36)); lvl=4; h,r-ind=1,1
    [4,3]((4,10,21),(2,5,12),(3,7,17),(6,14,31)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((2,5,11),(2,5,12),(3,7,17),(3,7,16)); lvl=3; h,r-ind=1,1
        [3,3]((5,12,28),(3,7,17),(2,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(5,12,28),(2,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,16),(2,5,11),(5,12,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,16),(5,12,28),(3,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,26),(2,5,11),(3,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,26),(6,14,31),(3,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,21),(5,12,26),(2,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,12),(5,12,30),(3,7,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,5),(6,13,29)); lvl=2; h,r-ind=1,1
    [3,3]((5,12,30),(1,2,5),(3,7,17)); lvl=2; h,r-ind=1,1
  [4,3]((3,7,19),(3,6,16),(1,2,5),(5,12,30)); lvl=1; h,r-ind=1,2
    [3,3]((3,6,16),(5,11,29),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,18),(7,16,42),(5,11,29),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((8,18,47),(5,11,29),(7,16,42)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,18),(8,18,47),(7,16,42)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(8,18,47),(5,11,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,18),(1,2,5),(8,18,47)); lvl=3; h,r-ind=1,1
    [3,3]((5,12,30),(3,7,18),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,19),(5,12,30),(3,7,18)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,19),(3,7,18),(7,16,42)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,19),(7,16,42),(5,11,29)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((3,7,19),(3,6,16),(5,11,29)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
  [3,3]((1,0,0),(3,7,19),(3,6,16)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,7,19),(2,5,12),(5,12,30)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,7,19),(2,5,12)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(1,3,4),(2,5,9),(2,5,12)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,9),(4,10,21)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,3,6),(2,5,12),(1,3,5),(4,10,21)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,11),(4,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,22),(1,3,5),(2,5,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,6),(4,11,22),(2,5,12),(2,5,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,12),(3,8,17),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,22),(3,8,17),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(2,5,12),(3,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,22),(1,3,6),(3,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(4,11,22),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,6),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,4),(2,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
```

19.40 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,9,19)); lvl=0; h,r-ind=19,361
  [5,3]((2,2,3),(1,2,4),(1,1,2),(2,6,7),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,6,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,3),(2,6,7)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,3),(2,4,5),(1,2,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,3),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,6,7),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,6),(1,2,4),(1,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,3,6),(1,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,9,19),(0,1,0),(1,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((3,9,19),(1,3,6),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((3,9,19),(1,2,4),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,2,3),(2,6,7)); lvl=1; h,r-ind=1,1
```

```
    [4,3]((2,4,5),(1,2,2),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(4,6,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,2,3),(2,3,4),(1,1,1),(4,6,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(2,3,4),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(1,1,1),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((2,4,5),(2,3,4),(1,2,2),(4,6,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,6),(2,3,4),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,5,6),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,7),(2,4,5),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
      [4,3]((2,4,5),(2,5,6),(1,2,2),(4,10,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,8),(2,5,6),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,8),(1,2,2),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,8),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(4,10,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(2,6,7),(2,5,6),(4,10,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,7),(3,8,9),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,11),(3,8,9),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(4,10,11),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,6,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((3,9,19),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
```

19.41 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,11,19)); lvl=0; h,r-ind=19,361
  [4,3]((1,4,6),(2,7,11),(4,14,23),(3,11,18)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,11),(4,14,23),(5,18,29)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,18),(4,14,23),(5,18,29)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(3,11,18),(5,18,29)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,11),(5,18,29)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,12),(3,10,17),(4,14,23),(3,11,18)); lvl=1; h,r-ind=1,1
    [3,3]((6,21,35),(4,14,23),(3,10,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,12),(6,21,35),(3,10,17)); lvl=2; h,r-ind=1,1
    [3,3]((6,21,35),(3,11,18),(4,14,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,12),(6,21,35),(3,11,18)); lvl=2; h,r-ind=1,1
  [3,3]((3,11,19),(2,7,12),(3,11,18)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,7,12),(3,10,17)); lvl=1; h,r-ind=1,1
  [3,3]((3,11,19),(1,0,0),(2,7,12)); lvl=1; h,r-ind=1,1
  [3,3]((3,11,19),(1,4,6),(3,11,18)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,4,6),(2,7,7),(2,7,11)); lvl=1; h,r-ind=1,1
    [4,3]((1,4,5),(2,8,9),(2,7,9),(2,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,9),(2,8,9),(4,15,19)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,4,5),(2,8,9),(4,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(2,7,9),(4,15,19)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,4,5),(2,7,11),(2,7,10),(4,15,19)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,11),(2,7,10),(3,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,19),(2,7,10),(3,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(4,15,19),(3,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,11),(3,11,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,6),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(1,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,9),(1,4,4),(2,7,7),(2,7,9)); lvl=2; h,r-ind=1,1
      [4,3]((2,7,8),(4,15,17),(1,4,4),(2,7,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,12),(1,4,4),(4,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(3,11,12),(4,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,7),(3,11,12),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(2,7,7),(3,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,8),(2,7,9),(4,15,17)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,8,9),(2,7,9),(4,15,17)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,8,9),(4,15,17),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,8,9),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(2,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((3,11,19),(0,1,0),(1,4,6)); lvl=1; h,r-ind=1,1
  [4,3]((3,10,17),(1,3,5),(2,7,11),(4,14,23)); lvl=1; h,r-ind=1,1
    [3,3]((5,17,28),(2,7,11),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,17),(5,17,28),(1,3,5)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((4,14,23),(5,17,28),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,17),(4,14,23),(5,17,28)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,10,17),(1,3,5)); lvl=1; h,r-ind=1,1
  [5,3]((1,2,3),(1,3,3),(2,7,7),(1,3,5),(2,7,11)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,7),(2,7,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,4),(2,7,11),(2,7,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,4),(1,3,5),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,4),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,3),(2,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,4),(1,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,3,3),(2,7,7)); lvl=1; h,r-ind=1,1
```

19.42 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,12,19)); lvl=0; h,r-ind=19,361
  [5,3]((2,5,6),(1,3,4),(1,3,3),(2,7,9),(2,7,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,10,12),(2,7,9),(2,7,8)); lvl=2; h,r-ind=1,1
    [6,3]((5,16,18),(3,10,11),(5,16,19),(6,19,22),(3,10,12),(2,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((6,19,22),(4,13,15),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,11),(4,13,15),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,10,11),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(2,7,8),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,19),(6,19,22),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,19),(3,10,12),(4,13,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,11),(2,7,7),(2,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((5,16,18),(3,10,11),(1,3,3),(2,7,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,14),(3,10,11),(2,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(4,13,14),(2,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,18),(4,13,14),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(5,16,18),(4,13,14)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,7),(5,16,18),(6,19,22),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((6,19,22),(7,22,25),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(7,22,25),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(6,19,22),(7,22,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,6,7),(7,22,25)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,6,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((5,16,19),(1,3,4),(3,10,12),(2,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(4,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(2,7,9),(4,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,19),(3,10,12),(4,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,19),(1,3,4),(4,13,16)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,7),(5,16,19),(6,19,22),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((6,19,22),(7,22,26),(5,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(7,22,26),(5,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(6,19,22),(7,22,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,7),(7,22,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,6,7),(1,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,4,6),(2,7,9),(2,7,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,6),(2,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(2,8,9),(2,7,8),(2,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,8),(3,11,13),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,11,13),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(1,4,5),(3,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(2,7,8),(3,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(2,8,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,9),(1,4,4),(2,7,7),(2,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,12),(2,7,7),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(3,11,12),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(2,8,9),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,11,12),(2,7,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,8,9),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(1,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(2,7,7)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,6),(2,6,9),(1,3,4),(2,7,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,9),(2,7,10),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,9),(2,7,10),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,9),(2,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(2,6,9),(2,7,10)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,6),(2,6,9),(4,13,20),(3,11,17)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,9),(4,13,20),(5,17,26)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,17),(4,13,20),(5,17,26)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(2,6,9),(5,17,26)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,17),(1,4,6),(5,17,26)); lvl=2; h,r-ind=1,1
```

```
  [4,3]((4,13,20),(3,9,14),(2,7,11),(3,11,17)); lvl=1; h,r-ind=1,1
    [3,3]((6,20,31),(2,7,11),(3,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((4,13,20),(6,20,31),(3,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,17),(4,13,20),(6,20,31)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,17),(6,20,31),(2,7,11)); lvl=2; h,r-ind=1,1
  [3,3]((3,12,19),(2,7,11),(3,11,17)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,9,14),(2,7,11)); lvl=1; h,r-ind=1,1
  [3,3]((3,12,19),(1,0,0),(2,7,11)); lvl=1; h,r-ind=1,1
  [4,3]((2,6,9),(1,2,3),(4,13,20),(3,9,14)); lvl=1; h,r-ind=1,1
    [3,3]((5,15,23),(1,2,3),(3,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((4,13,20),(5,15,23),(3,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(4,13,20),(5,15,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(5,15,23),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(3,9,14)); lvl=1; h,r-ind=1,1
  [3,3]((3,12,19),(1,4,6),(3,11,17)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,12,19),(1,4,6)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,5,6),(2,3,4),(1,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,3),(2,3,3),(2,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,11,13),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(5,11,13),(2,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(1,3,3),(2,5,6),(5,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,3),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,3),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(1,2,2),(3,7,8)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(2,3,4),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(2,4,5),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,4,5),(5,8,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,3,4),(1,1,1),(5,8,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(2,3,4),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(2,4,5)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((2,6,9),(2,5,6),(1,3,4),(1,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((3,7,9),(5,12,16),(1,3,4),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,16),(1,3,4),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(1,3,4),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(5,12,16),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,5,6),(4,10,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(3,7,9),(2,5,6)); lvl=2; h,r-ind=1,1
    [6,3]((2,4,5),(3,6,8),(5,11,15),(6,14,19),(3,7,9),(5,12,16)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,12),(5,11,15),(3,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,9,12),(3,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,7,9),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,12),(6,14,19),(5,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,12),(6,14,19),(5,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(4,9,12),(5,12,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(2,3,4),(3,6,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,3,4),(3,6,8),(5,11,15)); lvl=2; h,r-ind=1,1
      [3,3]((4,8,11),(3,6,8),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,8,11),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,15),(4,8,11),(3,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,15),(4,8,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,7),(1,2,3),(5,11,15),(6,14,19)); lvl=2; h,r-ind=1,1
      [3,3]((7,16,22),(5,11,15),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(7,16,22),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,19),(7,16,22),(5,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(6,14,19),(7,16,22)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,7),(6,14,19),(5,12,16),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,16),(6,14,19),(7,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(6,14,19),(7,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(7,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,12,16),(7,17,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(2,5,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(2,5,7),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
```

19.43 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,14,19)); lvl=0; h,r-ind=19,361
  [5,3]((1,4,5),(1,3,4),(2,7,7),(1,2,2),(2,4,5)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,6),(1,3,4),(4,13,16),(2,6,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,3,4),(4,13,16),(3,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(4,13,16),(3,9,11)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,5,6),(1,3,4),(3,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(2,5,6),(3,9,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(1,3,3),(4,13,16),(2,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(3,10,12),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,16),(3,10,12),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(4,13,16),(3,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,3),(3,10,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(1,3,3),(2,5,6),(2,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(2,6,7),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(1,2,2),(3,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(1,3,4),(4,13,16)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(2,4,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,3,4),(2,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((3,12,16),(3,13,17),(1,4,5),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((4,16,21),(1,4,5),(3,13,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,12,16),(4,16,21),(3,13,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(3,12,16),(4,16,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(4,16,21),(1,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((3,14,19),(3,12,16),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,14,19),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((3,14,19),(3,12,16),(3,13,17)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(2,7,7),(1,2,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,5,6),(1,4,5),(0,1,0),(2,7,7)); lvl=1; h,r-ind=1,1
    [4,3]((1,4,5),(2,9,10),(1,4,4),(2,9,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,10),(2,9,9),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,9,9),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,10),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,4,5),(3,13,14)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,5,6),(2,9,10),(2,9,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,5),(1,5,6),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,9),(1,5,5),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,7),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,7),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,5),(2,9,10)); lvl=2; h,r-ind=1,1
  [3,3]((3,14,19),(1,5,6),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((3,14,18),(3,13,17),(1,5,6),(1,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,13,17),(1,4,5),(4,18,23)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,5),(4,18,23)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,18),(1,5,6),(4,18,23)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,18),(3,13,17),(4,18,23)); lvl=2; h,r-ind=1,1
  [3,3]((3,14,19),(3,14,18),(1,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((3,14,19),(3,14,18),(3,13,17)); lvl=1; h,r-ind=3,3; optimized-h
```

19.44 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,15,19)); lvl=0; h,r-ind=19,361
  [3,3]((2,5,6),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,4,5),(2,9,11),(2,5,6),(2,7,7),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,3),(2,8,9),(2,7,7)); lvl=2; h,r-ind=1,1
    [5,3]((4,16,19),(7,27,32),(2,7,8),(1,3,3),(2,8,9)); lvl=2; h,r-ind=1,1
      [5,3]((3,12,14),(2,8,9),(5,19,22),(8,29,33),(1,3,3)); lvl=3; h,r-ind=1,1
        [3,3]((6,22,25),(10,37,42),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,17),(10,37,42),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(4,15,17),(1,3,3)); lvl=4; h,r-ind=1,1
        [4,3]((3,12,14),(9,34,39),(4,15,17),(10,37,42)); lvl=4; h,r-ind=1,1
          [3,3]((9,34,39),(10,37,42),(13,49,56)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,17),(10,37,42),(13,49,56)); lvl=5; h,r-ind=1,1
          [3,3]((3,12,14),(4,15,17),(13,49,56)); lvl=5; h,r-ind=1,1
          [3,3]((3,12,14),(9,34,39),(13,49,56)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,9),(3,12,14),(4,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((8,29,33),(6,22,25),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,19,22),(8,29,33),(6,22,25)); lvl=4; h,r-ind=1,1
        [4,3]((5,19,22),(9,34,39),(6,22,25),(10,37,42)); lvl=4; h,r-ind=1,1
          [3,3]((9,34,39),(10,37,42),(15,56,64)); lvl=5; h,r-ind=1,1
          [3,3]((6,22,25),(10,37,42),(15,56,64)); lvl=5; h,r-ind=1,1
          [3,3]((5,19,22),(9,34,39),(15,56,64)); lvl=5; h,r-ind=1,1
          [3,3]((6,22,25),(5,19,22),(15,56,64)); lvl=5; h,r-ind=1,1
```

```
        [3,3]((3,12,14),(5,19,22),(9,34,39)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,8),(8,29,33),(1,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,8),(6,23,27),(5,19,22),(8,29,33)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,23,27),(7,26,30),(5,19,22)); lvl=4; h,r-ind=1,1
        [3,3]((8,29,33),(7,26,30),(5,19,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(8,29,33),(7,26,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(6,23,27),(7,26,30)); lvl=4; h,r-ind=1,1
      [3,3]((7,27,32),(2,7,8),(6,23,27)); lvl=3; h,r-ind=1,1
      [4,3]((4,16,19),(3,12,14),(6,23,27),(5,19,22)); lvl=3; h,r-ind=1,1
        [3,3]((3,12,14),(5,19,22),(9,35,41)); lvl=4; h,r-ind=1,1
        [3,3]((6,23,27),(5,19,22),(9,35,41)); lvl=4; h,r-ind=1,1
        [3,3]((4,16,19),(3,12,14),(9,35,41)); lvl=4; h,r-ind=1,1
        [3,3]((6,23,27),(4,16,19),(9,35,41)); lvl=4; h,r-ind=1,1
      [3,3]((7,27,32),(4,16,19),(6,23,27)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,11),(4,16,19),(2,8,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,4,5),(2,9,11),(4,16,19),(7,27,32)); lvl=2; h,r-ind=1,1
      [3,3]((5,20,24),(4,16,19),(2,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(5,20,24),(2,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((7,27,32),(5,20,24),(4,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(7,27,32),(5,20,24)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(2,7,8),(2,6,7),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,6,7),(2,7,8),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,8),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,6,7),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(3,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(1,2,2),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,5,6),(2,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(7,27,32),(2,7,8),(2,6,7)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,11,13),(2,7,8),(7,27,32)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,11,13),(7,27,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,11,13),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,6,7),(3,11,13)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,7,7),(1,2,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,15,19),(1,4,5),(2,9,11)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,5,6),(2,9,11),(2,7,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,9,10),(1,5,6),(2,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,4),(2,8,9),(2,9,10),(2,9,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,13,15),(2,9,11),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(3,13,15),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(3,13,15),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,15),(2,8,9),(2,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,7),(1,4,4),(2,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,7),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(2,9,10),(2,9,9),(1,5,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,9),(1,5,5),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,5),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,6),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(2,9,10),(2,9,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=2; h,r-ind=1,1
  [3,3]((3,15,19),(1,5,6),(2,9,11)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,15,19),(1,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,5),(2,5,6),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,15,19),(1,4,5),(1,0,0)); lvl=1; h,r-ind=1,1
```

19.45 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,17,19)); lvl=0; h,r-ind=19,361
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(3,10,11),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,9,10),(3,10,11),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,17,19),(2,9,10),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,7),(1,1,1),(0,1,0)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,6,6),(2,7,7),(0,1,0)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((3,17,19),(1,6,6),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,17,19),(1,6,6),(3,17,18)); lvl=1; h,r-ind=1,1
  [4,3]((6,27,29),(2,7,7),(1,1,1),(3,10,11)); lvl=1; h,r-ind=1,1
    [4,3]((3,12,13),(3,10,11),(2,5,5),(1,1,1)); lvl=2; h,r-ind=1,1
      [4,3]((3,10,11),(3,11,12),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,2),(3,11,12),(4,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,11),(3,11,12),(4,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,10,11),(4,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(4,12,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,13),(3,11,12),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,13),(2,5,5),(1,2,2)); lvl=3; h,r-ind=1,1
    [4,3]((3,12,13),(3,13,14),(1,3,3),(2,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((4,15,16),(3,13,14),(1,3,3)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,5,5),(4,15,16),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,13),(2,5,5),(4,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,13),(4,15,16),(3,13,14)); lvl=3; h,r-ind=1,1
    [3,3]((4,17,18),(3,13,14),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,17,18),(2,7,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,17,18),(6,27,29),(3,13,14)); lvl=2; h,r-ind=1,1
  [4,3]((6,27,29),(2,9,10),(2,10,11),(3,10,11)); lvl=1; h,r-ind=1,1
    [3,3]((2,10,11),(2,9,10),(11,50,55)); lvl=2; h,r-ind=1,1
    [4,3]((3,10,11),(3,12,13),(2,9,10),(11,50,55)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [3,3]((7,30,33),(3,12,13),(7,31,34)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((2,9,10),(7,30,33),(11,50,55),(7,31,34)); lvl=3; h,r-ind=1,2
        [3,3]((7,30,33),(9,40,44),(7,31,34)); lvl=4; h,r-ind=1,1
        [3,3]((11,50,55),(9,40,44),(7,31,34)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(11,50,55),(9,40,44)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(7,30,33),(9,40,44)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,12),(7,30,33),(3,12,13)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((2,9,10),(3,10,11),(3,11,12),(7,30,33)); lvl=3; h,r-ind=1,2
        [3,3]((5,20,22),(3,11,12),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(5,20,22),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((7,30,33),(5,20,22),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(7,30,33),(5,20,22)); lvl=4; h,r-ind=1,1
    [4,3]((3,13,14),(3,12,13),(2,10,11),(11,50,55)); lvl=2; h,r-ind=1,1
      [4,3]((2,10,11),(14,63,69),(11,50,55),(7,31,34)); lvl=3; h,r-ind=1,1
        [3,3]((7,31,34),(9,41,45),(14,63,69)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(9,41,45),(14,63,69)); lvl=4; h,r-ind=1,1
        [3,3]((11,50,55),(2,10,11),(9,41,45)); lvl=4; h,r-ind=1,1
        [3,3]((11,50,55),(7,31,34),(9,41,45)); lvl=4; h,r-ind=1,1
      [4,3]((5,22,24),(14,63,69),(3,12,13),(7,31,34)); lvl=3; h,r-ind=1,1
        [3,3]((7,31,34),(14,63,69),(12,53,58)); lvl=4; h,r-ind=1,1
        [3,3]((5,22,24),(14,63,69),(12,53,58)); lvl=4; h,r-ind=1,1
        [3,3]((5,22,24),(3,12,13),(12,53,58)); lvl=4; h,r-ind=1,1
        [3,3]((3,12,13),(7,31,34),(12,53,58)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,14),(5,22,24),(3,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,22,24),(2,10,11),(14,63,69)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,14),(5,22,24),(2,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,14),(6,27,29),(2,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((3,17,19),(2,9,10),(2,10,11)); lvl=1; h,r-ind=1,1
  [4,3]((3,17,19),(3,17,18),(6,27,29),(2,10,11)); lvl=1; h,r-ind=1,1
    [4,3]((3,15,16),(3,14,15),(4,21,23),(2,11,12)); lvl=2; h,r-ind=1,1
      [3,3]((5,25,27),(4,21,23),(3,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,16),(5,25,27),(3,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,25,27),(2,11,12),(4,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,16),(5,25,27),(2,11,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,17,19),(4,21,23),(2,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,17,18),(3,15,16),(2,11,12)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,17,19),(3,17,18),(2,11,12)); lvl=2; h,r-ind=1,1
    [4,3]((2,10,11),(3,14,15),(6,27,29),(4,21,23)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,24,26),(3,14,15),(6,27,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,11),(5,24,26),(6,27,29)); lvl=3; h,r-ind=1,1
      [3,3]((4,21,23),(5,24,26),(3,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,11),(4,21,23),(5,24,26)); lvl=3; h,r-ind=1,1
    [3,3]((3,17,19),(2,10,11),(4,21,23)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,6),(3,17,18),(6,27,29),(2,7,7)); lvl=1; h,r-ind=1,1
    [4,3]((1,4,4),(2,9,9),(3,15,16),(3,14,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,9),(4,19,20),(3,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,15),(4,19,20),(3,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,9,9),(4,19,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,15),(1,4,4),(4,19,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(4,17,18),(3,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((6,27,29),(4,17,18),(3,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,7),(1,4,4),(4,17,18)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,6),(2,9,9),(3,17,18),(3,15,16)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,9),(1,5,5),(3,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,17),(1,5,5),(3,15,16)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,6),(3,17,18),(3,16,17),(1,5,5)); lvl=3; h,r-ind=1,1
        [3,3]((3,17,18),(3,16,17),(4,22,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(3,16,17),(4,22,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(3,17,18),(4,22,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(1,6,6),(4,22,23)); lvl=4; h,r-ind=1,1
```

19.46 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,18,19)); lvl=0; h,r-ind=19,361
  [3,3]((3,18,19),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,18,19),(2,7,7),(1,1,1)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((0,1,0),(2,7,7),(1,1,1)); lvl=1; h,r-ind=5,5; optimized-h
```

```
  [3,3]((3,18,19),(2,7,7),(1,6,6)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((0,1,0),(3,18,19),(1,6,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,7,7),(1,6,6)); lvl=1; h,r-ind=5,5; optimized-h
```

19.47 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,4,19)); lvl=0; h,r-ind=19,361
  [3,3]((2,2,9),(3,3,14),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,4,19),(3,3,14),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,4),(2,2,9),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,5),(1,1,4),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(2,2,5),(1,0,0)); lvl=1; h,r-ind=5,25; optimized-h
  [3,3]((0,1,0),(2,2,5),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,1,4),(2,2,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,9),(3,3,14)); lvl=1; h,r-ind=1,1
  [3,3]((4,4,19),(0,1,0),(3,3,14)); lvl=1; h,r-ind=1,1
```

19.48 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,6,19)); lvl=0; h,r-ind=19,361
  [5,3]((1,1,2),(2,3,5),(2,3,7),(3,4,11),(1,1,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,11),(3,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,11),(3,4,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(5,6,14),(3,4,9),(3,4,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,9),(4,5,12),(5,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,12),(5,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(3,4,9),(4,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,10),(4,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,6),(2,3,7),(3,4,9),(3,4,10)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,16),(3,4,10),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(5,7,16),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,16),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(2,3,7),(5,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,1,3),(5,6,14)); lvl=2; h,r-ind=1,1
    [5,3]((2,3,5),(1,1,2),(2,3,6),(5,6,14),(3,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,11),(3,4,9),(5,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,11),(5,6,14)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,11),(7,9,19),(6,8,17),(3,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((6,8,17),(7,9,19),(10,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,11),(7,9,19),(10,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(4,5,11),(10,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(6,8,17),(10,13,28)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,17),(2,3,6),(3,4,9)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,8),(7,9,19),(6,8,17),(2,3,6)); lvl=3; h,r-ind=1,1
        [3,3]((9,12,25),(6,8,17),(7,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,8),(9,12,25),(7,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,6),(9,12,25),(6,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,8),(2,3,6),(9,12,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(3,4,8),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,8),(7,9,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,1,2),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,11),(7,9,19)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,12),(5,7,20),(3,4,11),(1,1,3)); lvl=1; h,r-ind=1,1
    [3,3]((6,8,23),(3,4,11),(5,7,20)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(6,8,23),(5,7,20)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(6,8,23),(3,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(1,1,3),(6,8,23)); lvl=2; h,r-ind=1,1
  [3,3]((4,6,19),(3,4,12),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,6,19),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(1,1,2),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,5),(2,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,2),(2,3,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(2,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,1,2),(1,1,1),(2,3,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,4),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(0,1,0),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,4),(2,3,5),(2,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(2,3,7)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,2,3),(1,2,4),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
  [6,3]((5,7,20),(4,6,17),(1,2,4),(3,5,13),(2,3,7),(3,4,11)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,8),(4,6,17),(5,7,20)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(3,4,11),(5,7,20)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(3,4,11),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,8),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(3,5,13),(4,6,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,8),(3,5,13)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,9),(3,4,12),(5,7,20),(4,6,17)); lvl=1; h,r-ind=1,1
    [3,3]((7,10,29),(5,7,20),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(7,10,29),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,17),(7,10,29),(5,7,20)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(4,6,17),(7,10,29)); lvl=2; h,r-ind=1,1
  [3,3]((4,6,19),(2,3,9),(3,4,12)); lvl=1; h,r-ind=1,1
  [5,3]((2,3,9),(4,6,17),(4,7,18),(3,5,13),(5,8,23)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,9),(11,18,49),(5,8,22),(8,13,36)); lvl=2; h,r-ind=1,1
      [3,3]((13,21,58),(11,18,49),(5,8,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(13,21,58),(5,8,22)); lvl=3; h,r-ind=1,1
      [3,3]((8,13,36),(2,3,9),(13,21,58)); lvl=3; h,r-ind=1,1
      [3,3]((8,13,36),(13,21,58),(11,18,49)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(5,8,23),(8,13,36)); lvl=2; h,r-ind=1,1
    [4,3]((4,7,18),(9,15,40),(11,18,49),(8,13,36)); lvl=2; h,r-ind=1,1
      [3,3]((9,15,40),(11,18,49),(26,43,116)); lvl=3; h,r-ind=1,1
      [4,3]((6,10,27),(8,13,36),(11,18,49),(26,43,116)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,13,36),(17,28,76),(11,18,49)); lvl=4; h,r-ind=1,1
        [3,3]((26,43,116),(17,28,76),(11,18,49)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,27),(26,43,116),(17,28,76)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,27),(8,13,36),(17,28,76)); lvl=4; h,r-ind=1,1
      [4,3]((4,7,18),(6,10,27),(9,15,40),(26,43,116)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((15,25,67),(26,43,116),(6,10,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,18),(15,25,67),(6,10,27)); lvl=4; h,r-ind=1,1
        [3,3]((9,15,40),(4,7,18),(15,25,67)); lvl=4; h,r-ind=1,1
        [3,3]((9,15,40),(15,25,67),(26,43,116)); lvl=4; h,r-ind=1,1
    [3,3]((5,8,23),(4,7,18),(8,13,36)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((3,5,13),(9,15,40),(11,18,49),(5,8,22)); lvl=2; h,r-ind=1,1
      [3,3]((11,18,49),(9,15,40),(14,23,62)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(9,15,40),(14,23,62)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,22),(3,5,13),(14,23,62)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,22),(11,18,49),(14,23,62)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,18),(3,5,13),(9,15,40)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(5,8,22),(4,6,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,13),(5,8,22),(4,6,17)); lvl=2; h,r-ind=1,1
  [4,3]((4,6,19),(0,1,0),(4,7,18),(5,8,23)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,18),(3,5,14),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,5,14),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,19),(0,1,0),(3,5,14)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,23),(4,7,18),(3,5,14)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,19),(5,8,23),(3,5,14)); lvl=2; h,r-ind=1,1
  [3,3]((4,6,19),(2,3,9),(5,8,23)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,4),(4,7,18),(3,5,13)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,13),(6,11,26)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,9),(4,7,18),(3,5,13),(6,11,26)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,9,22),(3,5,13),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(5,9,22),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,26),(5,9,22),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(6,11,26),(5,9,22)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(2,4,9),(1,2,4),(6,11,26)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,6,13),(6,11,26),(2,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(3,6,13),(2,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(0,1,0),(3,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,6,13),(6,11,26)); lvl=3; h,r-ind=1,1
```

19.49 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,8,19)); lvl=0; h,r-ind=19,361
  [5,3]((2,3,6),(1,1,2),(2,2,3),(2,4,5),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((5,7,11),(6,9,14),(2,3,5),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,7,11),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,5),(7,10,16)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,3),(3,4,6),(5,7,11),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,8),(5,7,11),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,1,2),(2,2,3),(4,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,8),(5,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,5),(1,1,2)); lvl=2; h,r-ind=1,1
    [6,3]((3,4,6),(3,5,7),(2,3,4),(5,7,11),(6,9,14),(5,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((6,9,14),(4,6,9),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(4,6,9),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,7),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(3,5,7),(5,8,12),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(4,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,7),(2,3,4),(2,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(6,9,14),(5,8,12),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(7,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,6),(7,12,27),(2,4,9),(1,2,3)); lvl=1; h,r-ind=3,2
    [3,3]((3,5,11),(7,12,27),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(1,2,4),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(3,5,11),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,9),(1,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,6,14),(0,1,0),(2,4,9)); lvl=1; h,r-ind=1,1
  [3,3]((4,8,19),(3,6,14),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((3,6,14),(5,9,21),(7,12,27),(2,4,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,9),(4,7,16),(7,12,27)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(9,17,39),(4,7,16)); lvl=2; h,r-ind=1,1
    [4,3]((3,6,14),(9,17,39),(5,9,21),(4,7,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,13,30),(9,17,39),(4,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,21),(7,13,30),(4,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,14),(5,9,21),(7,13,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,14),(7,13,30),(9,17,39)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,14),(2,4,9),(9,17,39)); lvl=2; h,r-ind=1,1
  [3,3]((4,8,19),(3,6,14),(5,9,21)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,6),(3,4,9),(7,12,27),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((6,9,20),(5,8,18),(3,4,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(6,9,20),(10,15,33),(3,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((10,15,33),(7,10,22),(6,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(7,10,22),(6,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(10,15,33),(7,10,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(1,1,2),(7,10,22)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,11),(2,3,6),(1,1,2),(10,15,33)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((4,6,13),(1,1,2),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(4,6,13),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((10,15,33),(4,6,13),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(10,15,33),(4,6,13)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,11),(6,9,20),(10,15,33),(5,8,18)); lvl=2; h,r-ind=1,1
      [3,3]((10,15,33),(9,14,31),(6,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,18),(9,14,31),(6,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(5,8,18),(9,14,31)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(10,15,33),(9,14,31)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,11),(7,12,27),(5,8,18)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,4,9),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,7),(5,9,21),(3,4,9),(7,12,27)); lvl=1; h,r-ind=1,1
    [4,3]((7,11,25),(5,8,18),(4,7,16),(13,21,48)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,16),(11,18,41),(5,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,25),(11,18,41),(5,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,25),(13,21,48),(11,18,41)); lvl=3; h,r-ind=1,1
      [3,3]((13,21,48),(4,7,16),(11,18,41)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,7),(5,9,21),(4,7,16),(13,21,48)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((5,9,21),(6,10,23),(4,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((13,21,48),(6,10,23),(4,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(13,21,48),(6,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(5,9,21),(6,10,23)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,9),(2,3,7),(7,11,25),(13,21,48)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,7),(13,21,48),(9,14,32)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,25),(13,21,48),(9,14,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(7,11,25),(9,14,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(2,3,7),(9,14,32)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,18),(7,12,27),(4,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,9),(7,11,25),(5,8,18)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,7),(3,4,9)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((4,8,19),(2,3,7),(5,9,21)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,8,19),(2,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(1,2,2),(2,3,3),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,6),(2,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,5,6),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,4,5),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,6),(2,3,3)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,3),(2,3,4),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
```

19.50 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,9,19)); lvl=0; h,r-ind=19,361
  [5,3]((1,2,3),(2,4,5),(2,2,3),(2,3,6),(1,1,2)); lvl=1; h,r-ind=1,1
    [4,3]((5,7,11),(3,4,6),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,8),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,7,11),(4,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,8),(2,2,3)); lvl=3; h,r-ind=1,1
    [4,3]((6,9,14),(5,7,11),(2,3,5),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((7,10,16),(1,1,2),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(7,10,16),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,16),(2,3,5),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(7,10,16),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,6),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(6,9,14),(5,8,12),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(7,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(2,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
    [6,3]((6,9,14),(5,7,11),(3,4,6),(3,5,7),(5,8,12),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(3,5,7),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(5,8,12),(4,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,7),(2,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(3,5,7),(5,8,12),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(4,7,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,4,5),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(1,2,2),(2,3,3),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,6),(2,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,5,6),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,4,5),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,6),(2,3,3)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,3),(2,3,4),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((4,9,19),(2,3,6),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,9,19),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(2,3,6),(1,2,4)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,3),(1,2,4),(2,5,9)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((1,2,3),(1,3,4),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(1,3,4),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,9),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((4,9,19),(0,1,0),(2,5,9)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,9,18),(1,2,4),(2,5,9)); lvl=1; h,r-ind=1,1
  [3,3]((4,9,19),(4,9,18),(2,5,9)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,9,19),(4,9,18),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((4,9,19),(2,3,6),(1,2,4)); lvl=1; h,r-ind=1,1
```

19.51 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,12,19)); lvl=0; h,r-ind=19,361
  [5,3]((1,2,3),(2,5,7),(2,3,4),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
    [6,3]((3,7,9),(5,11,14),(6,13,16),(2,5,6),(3,7,8),(5,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,11),(5,11,13),(6,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(4,9,11),(6,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(5,11,14),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(4,9,11),(5,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,7,8),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,5,6),(4,9,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(2,5,5),(3,7,8),(5,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,8),(2,5,5),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(1,2,2),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(3,7,8),(4,9,10)); lvl=3; h,r-ind=1,1
    [4,3]((6,13,16),(2,4,5),(1,2,2),(5,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((7,15,18),(1,2,2),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,16),(7,15,18),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(6,13,16),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(7,15,18),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(5,11,14),(6,13,16),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,14),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,14),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(7,15,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,7),(3,7,9),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,7),(3,7,9),(5,11,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(1,2,3),(4,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,5),(2,5,6),(3,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((2,6,9),(3,8,12),(2,5,7),(0,1,0),(2,5,5)); lvl=1; h,r-ind=1,1
    [4,3]((2,6,7),(1,3,3),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,9),(2,5,5),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,8,9),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(2,6,7),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,8,9),(2,5,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(2,6,7),(2,5,7),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,10),(2,5,6),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,10),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(2,6,7),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,12),(1,3,4),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,12),(2,6,9),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,6,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(0,1,0),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(1,3,4),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,5,5)); lvl=2; h,r-ind=1,1
  [3,3]((3,9,14),(2,6,9),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,12,19),(3,9,14),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(3,8,12),(2,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(3,8,12),(4,11,17)); lvl=1; h,r-ind=1,1
  [4,3]((3,9,14),(2,6,9),(3,8,12),(4,11,17)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,9),(3,8,12),(6,17,26)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,17),(3,8,12),(6,17,26)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,14),(2,6,9),(6,17,26)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,17),(3,9,14),(6,17,26)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(5,14,22),(4,11,17),(4,9,14)); lvl=1; h,r-ind=1,1
    [3,3]((4,11,17),(6,16,25),(5,14,22)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((4,9,14),(6,16,25),(5,14,22)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(4,11,17),(6,16,25)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(4,9,14),(6,16,25)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(4,12,19),(5,14,22),(4,9,14)); lvl=1; h,r-ind=1,2
    [3,3]((3,7,11),(4,12,19),(5,14,22)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,11),(4,9,14),(5,14,22)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,7,11),(4,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,7,11),(4,12,19)); lvl=2; h,r-ind=1,1
  [4,3]((4,12,19),(3,9,14),(5,14,22),(4,11,17)); lvl=1; h,r-ind=1,1
    [3,3]((3,9,14),(4,11,17),(8,23,36)); lvl=2; h,r-ind=1,1
    [3,3]((5,14,22),(4,11,17),(8,23,36)); lvl=2; h,r-ind=1,1
    [3,3]((4,12,19),(3,9,14),(8,23,36)); lvl=2; h,r-ind=1,1
    [3,3]((5,14,22),(4,12,19),(8,23,36)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(4,9,14)); lvl=1; h,r-ind=1,1
```

19.52 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,14,19)); lvl=0; h,r-ind=19,361
  [4,3]((1,3,4),(1,2,2),(2,5,5),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,5),(2,5,6),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,4),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(2,4,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,4),(0,1,0),(2,5,5)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((1,3,4),(2,7,9),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,14,19),(2,7,9),(0,1,0)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((4,14,19),(1,3,4),(2,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,14,19),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

19.53 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,16,19)); lvl=0; h,r-ind=19,361
  [4,3]((2,6,7),(2,5,5),(1,1,1),(2,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,8),(1,2,2),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,8),(5,15,17),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,7),(5,15,17),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,2),(5,15,17),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(5,15,17),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,2),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(1,1,1),(3,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,7),(2,7,8),(5,15,17)); lvl=2; h,r-ind=1,1
  [4,3]((3,11,13),(2,6,7),(6,23,27),(2,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,8),(2,6,7),(5,18,21)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,13),(2,6,7),(5,18,21)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,13),(6,23,27),(5,18,21)); lvl=2; h,r-ind=1,1
    [3,3]((6,23,27),(2,7,8),(5,18,21)); lvl=2; h,r-ind=1,1
  [3,3]((4,16,19),(6,23,27),(3,12,14)); lvl=1; h,r-ind=1,1
  [3,3]((4,16,19),(3,11,13),(6,23,27)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,16,19),(3,11,13)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,11,13),(2,6,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,6,7),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,5,5),(2,8,9),(2,7,8)); lvl=1; h,r-ind=2,4
    [4,3]((2,8,9),(3,11,12),(2,7,7),(1,4,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,7),(3,11,12),(4,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(3,11,12),(4,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,8,9),(4,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,7,7),(4,15,16)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,7),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,8,9),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(2,7,8),(3,11,12),(2,7,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,8),(3,11,12),(4,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,7),(3,11,12),(4,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,8),(4,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,7),(1,3,3),(4,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,5),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,9),(2,7,8),(3,11,12)); lvl=2; h,r-ind=1,1
  [4,3]((6,23,27),(3,12,14),(2,8,9),(2,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((3,12,14),(5,19,22),(2,8,9)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((2,7,8),(5,19,22),(2,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((6,23,27),(3,12,14),(5,19,22)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,8),(6,23,27),(5,19,22)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,12,14),(2,8,9)); lvl=1; h,r-ind=1,1
  [3,3]((4,16,19),(0,1,0),(3,12,14)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

19.54 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,18,19)); lvl=0; h,r-ind=19,361
  [3,3]((1,1,1),(0,1,0),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,4,4),(0,1,0),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,18,19),(1,4,4),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,4,4),(2,9,9),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,18,19),(2,9,9),(0,1,0)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((4,18,19),(1,4,4),(2,9,9)); lvl=1; h,r-ind=1,1
  [3,3]((4,18,19),(1,1,1),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(4,18,19),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
```

19.55 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,6,19)); lvl=0; h,r-ind=19,361
  [3,3]((1,1,2),(1,0,0),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((6,6,19),(1,0,0),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((6,6,19),(0,1,0),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(1,0,0)); lvl=1; h,r-ind=2,4; optimized-h
```

19.56 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,9,19)); lvl=0; h,r-ind=19,361
  [4,3]((3,5,9),(4,6,11),(2,3,6),(3,4,8)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,11),(3,4,8),(6,9,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(3,4,8),(6,9,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,9),(2,3,6),(6,9,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,9),(4,6,11),(6,9,17)); lvl=2; h,r-ind=1,1
  [3,3]((6,9,19),(2,3,6),(3,4,8)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,2),(4,6,11),(2,3,5),(3,4,8)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(4,6,11),(5,7,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(4,6,11),(5,7,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(5,7,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(1,1,2),(5,7,13)); lvl=2; h,r-ind=1,1
  [3,3]((6,9,19),(1,1,2),(3,4,8)); lvl=1; h,r-ind=1,1
  [4,3]((2,2,3),(1,2,2),(1,1,2),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(1,2,2),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,4),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((6,9,19),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,2,3),(1,2,2)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,1),(2,2,3),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(3,5,9),(4,6,11),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,9),(4,6,11),(5,8,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(4,6,11),(5,8,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,9),(5,8,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(1,2,3),(5,8,14)); lvl=2; h,r-ind=1,1
  [3,3]((6,9,19),(1,2,3),(3,5,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(6,9,19),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,2),(1,2,3),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,2),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,5),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((6,9,19),(3,5,9),(2,3,6)); lvl=1; h,r-ind=1,1
```

19.57 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,11,19)); lvl=0; h,r-ind=19,361
  [4,3]((1,2,2),(1,0,0),(2,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,1),(5,6,8),(1,0,0),(2,2,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,3,4),(5,6,8),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(5,6,8),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(1,1,1),(2,3,4),(5,6,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,5),(1,1,1),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
  [4,3]((3,5,8),(1,2,3),(2,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,6),(1,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,8),(3,4,6),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(3,5,8),(3,4,6)); lvl=2; h,r-ind=1,1
  [4,3]((5,9,15),(7,12,20),(3,5,8),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((7,12,20),(3,5,8),(8,14,23)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,8),(8,14,23)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,15),(1,2,3),(8,14,23)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,15),(7,12,20),(8,14,23)); lvl=2; h,r-ind=1,1
  [3,3]((6,11,19),(5,9,15),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,3),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((6,11,19),(1,2,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [5,3]((7,12,20),(6,10,17),(3,5,8),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(1,0,0),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((6,10,17),(1,0,0),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,8),(2,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((7,12,20),(3,5,8),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((6,10,17),(7,12,20),(2,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((4,7,12),(6,10,17),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((6,11,19),(4,7,12),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((5,9,15),(7,12,20),(4,7,12),(6,10,17)); lvl=1; h,r-ind=1,1
    [3,3]((7,12,20),(6,10,17),(11,19,32)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,12),(6,10,17),(11,19,32)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,15),(4,7,12),(11,19,32)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,15),(7,12,20),(11,19,32)); lvl=2; h,r-ind=1,1
  [3,3]((6,11,19),(5,9,15),(4,7,12)); lvl=1; h,r-ind=1,1
```

19.58 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,12,19)); lvl=0; h,r-ind=19,361
  [3,3]((1,0,0),(1,2,3),(5,9,14)); lvl=1; h,r-ind=1,1
  [3,3]((6,12,19),(1,2,3),(5,9,14)); lvl=1; h,r-ind=1,1
  [3,3]((6,12,19),(1,0,0),(5,9,14)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((1,0,0),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,4),(1,2,2),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((6,12,19),(0,1,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

19.59 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,15,19)); lvl=0; h,r-ind=19,361
  [4,3]((6,13,15),(1,2,2),(3,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(1,1,1),(5,9,10)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,6),(3,6,7),(1,1,1),(5,9,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,7,8),(3,6,7),(5,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,8),(1,1,1),(5,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(4,7,8),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(4,7,8),(3,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,7),(1,2,2),(5,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,15),(3,6,7),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((1,3,3),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((6,15,19),(1,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,4,5),(6,13,15),(4,9,11),(3,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((3,6,7),(6,13,15),(5,11,13)); lvl=2; h,r-ind=1,1
    [4,3]((12,25,30),(7,15,18),(3,6,7),(5,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((10,21,25),(7,15,18),(5,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(10,21,25),(5,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((12,25,30),(10,21,25),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(12,25,30),(10,21,25)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,11),(7,15,18),(5,11,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(12,25,30),(4,9,11),(7,15,18)); lvl=2; h,r-ind=1,1
      [3,3]((12,25,30),(9,19,23),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,11),(9,19,23),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,9,11),(9,19,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(12,25,30),(9,19,23)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,6),(2,4,5),(12,25,30),(3,6,7)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((5,10,12),(2,4,5),(12,25,30)); lvl=3; h,r-ind=1,1
      [3,3]((5,10,12),(3,6,7),(12,25,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(5,10,12),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(5,10,12),(2,4,5)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,5),(3,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,5),(5,12,15),(4,9,11)); lvl=1; h,r-ind=1,1
  [3,3]((6,15,19),(2,4,5),(5,12,15)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(6,15,19),(2,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((3,8,9),(5,12,15),(6,13,15),(4,9,11)); lvl=1; h,r-ind=2,1
    [4,3]((2,5,6),(7,16,19),(5,12,15),(4,9,11)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,16,19),(6,14,17),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,15),(6,14,17),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(5,12,15),(6,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(7,16,19),(6,14,17)); lvl=3; h,r-ind=1,1
    [3,3]((7,16,19),(5,11,13),(4,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,8),(7,16,19),(5,11,13),(6,13,15)); lvl=2; h,r-ind=1,1
      [3,3]((7,16,19),(8,18,21),(5,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,15),(8,18,21),(5,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(6,13,15),(8,18,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(7,16,19),(8,18,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(3,7,8),(7,16,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(2,5,6),(3,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((6,15,19),(3,8,9),(5,12,15)); lvl=1; h,r-ind=4,4; optimized-h
  [4,3]((3,8,9),(1,3,3),(6,13,15),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(5,12,13)); lvl=2; h,r-ind=1,1
    [4,3]((3,8,9),(3,7,8),(1,3,3),(5,12,13)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,10,11),(3,7,8),(5,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,11),(1,3,3),(5,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(4,10,11),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(4,10,11),(3,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,8),(1,2,2),(5,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,8),(6,13,15),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((6,15,19),(3,8,9),(1,3,3)); lvl=1; h,r-ind=1,1
```

19.60 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,18,19)); lvl=0; h,r-ind=19,361
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((6,18,19),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(6,18,19),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((6,18,19),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((6,18,19),(1,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
```

19.61 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,7,19)); lvl=0; h,r-ind=19,361
  [3,3]((3,3,8),(1,0,0),(2,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(1,0,0),(2,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(2,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,8),(2,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((7,7,19),(0,1,0),(3,3,8)); lvl=1; h,r-ind=1,1
  [3,3]((7,7,19),(3,3,8),(1,0,0)); lvl=1; h,r-ind=1,1
```

19.62 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,8,19)); lvl=0; h,r-ind=19,361
  [4,3]((7,8,19),(9,10,23),(3,3,7),(4,4,9)); lvl=1; h,r-ind=1,1
    [3,3]((4,4,9),(3,3,7),(15,16,37)); lvl=2; h,r-ind=1,1
    [4,3]((8,9,21),(7,8,19),(3,3,7),(15,16,37)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((11,12,28),(3,3,7),(7,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,21),(11,12,28),(7,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((11,12,28),(15,16,37),(3,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,21),(11,12,28),(15,16,37)); lvl=3; h,r-ind=1,1
    [4,3]((9,10,23),(8,9,21),(4,4,9),(15,16,37)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((8,9,21),(12,13,30),(15,16,37)); lvl=3; h,r-ind=1,1
      [3,3]((4,4,9),(12,13,30),(15,16,37)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,23),(4,4,9),(12,13,30)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,23),(8,9,21),(12,13,30)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,7),(4,4,9)); lvl=1; h,r-ind=1,1
  [5,3]((6,7,15),(7,8,18),(1,1,2),(9,10,23),(4,4,9)); lvl=1; h,r-ind=1,1
    [3,3]((11,12,27),(4,4,9),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((11,12,27),(8,9,20),(18,20,45),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((8,9,20),(18,20,45),(19,21,47)); lvl=3; h,r-ind=1,1
      [3,3]((11,12,27),(18,20,45),(19,21,47)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(11,12,27),(19,21,47)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(8,9,20),(19,21,47)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,15),(8,9,20),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,15),(8,9,20),(7,8,18)); lvl=2; h,r-ind=1,1
    [4,3]((8,9,20),(18,20,45),(7,8,18),(17,19,43)); lvl=2; h,r-ind=1,1
      [3,3]((17,19,43),(18,20,45),(25,28,63)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,20),(18,20,45),(25,28,63)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,18),(8,9,20),(25,28,63)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,18),(17,19,43),(25,28,63)); lvl=3; h,r-ind=1,1
    [3,3]((11,12,27),(9,10,23),(4,4,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((11,12,27),(18,20,45),(17,19,43),(9,10,23)); lvl=2; h,r-ind=1,1
      [3,3]((18,20,45),(17,19,43),(45,50,113)); lvl=3; h,r-ind=1,1
      [4,3]((10,11,25),(9,10,23),(17,19,43),(45,50,113)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,10,23),(27,30,68),(17,19,43)); lvl=4; h,r-ind=1,1
        [3,3]((45,50,113),(27,30,68),(17,19,43)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,25),(45,50,113),(27,30,68)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,25),(9,10,23),(27,30,68)); lvl=4; h,r-ind=1,1
      [4,3]((11,12,27),(10,11,25),(18,20,45),(45,50,113)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((18,20,45),(45,50,113),(28,31,70)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,25),(45,50,113),(28,31,70)); lvl=4; h,r-ind=1,1
        [3,3]((11,12,27),(18,20,45),(28,31,70)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,25),(11,12,27),(28,31,70)); lvl=4; h,r-ind=1,1
    [3,3]((7,8,18),(17,19,43),(9,10,23)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(4,4,9)); lvl=1; h,r-ind=1,1
  [4,3]((7,9,17),(4,5,10),(6,7,15),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,12),(4,5,10),(6,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(5,6,12),(6,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,17),(5,6,12),(4,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(7,9,17),(5,6,12)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(7,9,17),(2,3,5),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,7),(2,3,5),(7,9,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,7),(7,9,17)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,4,7),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(0,1,0),(3,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [4,3]((7,9,17),(4,5,10),(7,9,18),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,10),(7,9,18),(6,8,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(7,9,18),(6,8,15)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,17),(4,5,10),(6,8,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(7,9,17),(6,8,15)); lvl=2; h,r-ind=1,1
  [4,3]((7,8,19),(7,8,18),(9,10,23),(6,7,16)); lvl=1; h,r-ind=1,1
    [4,3]((8,9,21),(21,24,55),(7,8,18),(9,10,23)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((21,24,55),(15,17,39),(7,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,23),(15,17,39),(7,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,21),(9,10,23),(15,17,39)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,21),(21,24,55),(15,17,39)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,16),(21,24,55),(7,8,18)); lvl=2; h,r-ind=1,1
    [4,3]((8,9,21),(7,8,19),(6,7,16),(21,24,55)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,8,19),(14,16,37),(6,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((21,24,55),(14,16,37),(6,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,21),(21,24,55),(14,16,37)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,21),(7,8,19),(14,16,37)); lvl=3; h,r-ind=1,1
  [3,3]((7,8,19),(9,11,24),(6,7,16)); lvl=1; h,r-ind=1,1
  [3,3]((7,8,19),(0,1,0),(9,11,24)); lvl=1; h,r-ind=3,3; optimized-h
  [6,3]((4,5,10),(6,7,15),(7,8,18),(7,9,18),(9,11,24),(6,7,16)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,13),(6,7,16),(7,8,18)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,15),(5,6,13),(7,8,18)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((4,5,10),(6,7,15),(5,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,10),(5,6,13),(7,9,18)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,13),(9,11,24),(6,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,13),(9,11,24),(8,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,13),(8,10,21),(7,9,18)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(7,9,18),(2,3,5),(9,11,24)); lvl=1; h,r-ind=1,1
    [4,3]((15,20,39),(10,13,26),(2,3,5),(7,9,18)); lvl=2; h,r-ind=1,1
      [3,3]((12,16,31),(10,13,26),(7,9,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(12,16,31),(7,9,18)); lvl=3; h,r-ind=1,1
      [3,3]((15,20,39),(12,16,31),(10,13,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(15,20,39),(12,16,31)); lvl=3; h,r-ind=1,1
    [3,3]((8,10,21),(10,13,26),(7,9,18)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,8),(15,20,39),(8,10,21),(10,13,26)); lvl=2; h,r-ind=1,1
      [3,3]((13,17,34),(10,13,26),(15,20,39)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,8),(13,17,34),(15,20,39)); lvl=3; h,r-ind=1,1
      [3,3]((13,17,34),(8,10,21),(10,13,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,8),(13,17,34),(8,10,21)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,8),(9,11,24),(8,10,21)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(3,4,8),(15,20,39),(2,3,5)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,4,8),(15,20,39),(5,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(15,20,39),(5,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(3,4,8),(5,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(0,1,0),(5,7,13)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(7,8,19),(3,3,7)); lvl=1; h,r-ind=1,1
```

19.63 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,9,19)); lvl=0; h,r-ind=19,361
  [3,3]((2,3,5),(4,5,10),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((7,9,19),(4,5,10),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(7,9,19),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,5),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((2,3,5),(3,4,8),(4,5,10)); lvl=1; h,r-ind=1,1
  [3,3]((7,9,19),(3,4,8),(4,5,10)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,5),(3,4,8)); lvl=1; h,r-ind=1,1
  [3,3]((7,9,19),(0,1,0),(3,4,8)); lvl=1; h,r-ind=1,1
```

19.64 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,14,19)); lvl=0; h,r-ind=19,361
  [4,3]((7,12,15),(3,4,5),(5,9,12),(2,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((3,4,5),(7,11,14),(2,3,4),(13,21,27)); lvl=2; h,r-ind=1,1
      [3,3]((7,11,14),(13,21,27),(9,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(13,21,27),(9,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(7,11,14),(9,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(9,14,18)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,9),(5,9,12),(2,3,4),(13,21,27)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((5,9,12),(6,10,13),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((13,21,27),(6,10,13),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,9),(13,21,27),(6,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,9),(5,9,12),(6,10,13)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,9),(5,8,10),(7,11,14),(13,21,27)); lvl=2; h,r-ind=1,1
      [3,3]((7,11,14),(11,18,23),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,9),(11,18,23),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((13,21,27),(4,7,9),(11,18,23)); lvl=3; h,r-ind=1,1
      [3,3]((13,21,27),(7,11,14),(11,18,23)); lvl=3; h,r-ind=1,1
    [3,3]((7,12,15),(4,7,9),(5,8,10)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,10),(3,4,5),(7,11,14)); lvl=2; h,r-ind=1,1
  [3,3]((7,14,19),(5,9,12),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,4,5),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((7,14,19),(1,0,0),(2,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((7,12,15),(2,3,3),(3,4,5),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((3,5,6),(10,15,18),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((4,6,7),(10,15,18),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(4,6,7),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(2,3,3),(4,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(4,6,7),(10,15,18)); lvl=3; h,r-ind=1,1
    [3,3]((7,12,15),(3,5,6),(5,8,10)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,5),(6,9,11),(10,15,18),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((7,10,12),(10,15,18),(6,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(7,10,12),(6,9,11)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((7,10,12),(1,1,1),(10,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(7,10,12),(1,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,6),(5,8,10),(6,9,11),(10,15,18)); lvl=2; h,r-ind=1,1
      [3,3]((9,14,17),(5,8,10),(6,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((10,15,18),(9,14,17),(6,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(10,15,18),(9,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(9,14,17),(5,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(5,8,10),(6,9,11)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,4,5),(7,12,15),(2,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((3,5,6),(6,11,13),(2,4,5),(7,12,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,5),(5,9,11),(6,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(5,9,11),(6,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,15),(3,5,6),(5,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,15),(2,4,5),(5,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((6,11,13),(1,2,2),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(6,11,13),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(3,5,6),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,4,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((3,6,8),(2,4,5),(7,12,15),(5,9,12)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(4,7,9),(7,12,15)); lvl=2; h,r-ind=1,1
    [3,3]((9,17,22),(2,4,5),(4,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((3,6,8),(9,17,22),(5,9,12),(4,7,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,13,17),(9,17,22),(4,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,12),(7,13,17),(4,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,8),(5,9,12),(7,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,8),(7,13,17),(9,17,22)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,8),(9,17,22),(2,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((7,14,19),(3,6,8),(5,9,12)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,6,8),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((7,14,19),(0,1,0),(3,6,8)); lvl=1; h,r-ind=1,1
```

19.65 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,18,19)); lvl=0; h,r-ind=19,361
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,18,19),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,18,19),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(7,18,19),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((7,18,19),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((3,8,8),(0,1,0),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((7,18,19),(3,8,8),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,18,19),(3,8,8),(2,5,5)); lvl=1; h,r-ind=1,1
```

19.66 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,8,19)); lvl=0; h,r-ind=19,361
  [3,3]((4,4,9),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,4,9),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((4,4,9),(1,0,0),(3,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,4,9),(3,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((8,8,19),(0,1,0),(3,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((8,8,19),(1,0,0),(3,3,7)); lvl=1; h,r-ind=1,1
```

19.67 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,12,19)); lvl=0; h,r-ind=19,361
  [4,3]((1,0,0),(5,7,10),(3,3,4),(3,4,6)); lvl=1; h,r-ind=2,1
    [4,3]((3,4,6),(2,2,3),(4,5,7),(5,7,10)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,7),(2,2,3),(7,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(2,2,3),(7,9,13)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((5,7,10),(3,4,6),(7,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,10),(4,5,7),(7,9,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(2,2,3),(3,3,4),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,7),(5,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(4,5,7),(5,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,3,4),(5,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,3),(5,5,7)); lvl=3; h,r-ind=1,1
  [4,3]((7,10,15),(9,13,19),(5,7,10),(3,4,6)); lvl=1; h,r-ind=1,1
    [3,3]((12,17,25),(5,7,10),(9,13,19)); lvl=2; h,r-ind=1,1
    [3,3]((7,10,15),(12,17,25),(9,13,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(7,10,15),(12,17,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(12,17,25),(5,7,10)); lvl=2; h,r-ind=1,1
  [5,3]((5,7,11),(11,16,25),(7,9,14),(7,10,15),(3,4,6)); lvl=1; h,r-ind=1,1
    [6,3]((14,20,31),(22,31,48),(9,13,20),(25,35,54),(20,28,43),(12,17,26)); lvl=2; h,r-ind=1,1
      [3,3]((17,24,37),(20,28,43),(12,17,26)); lvl=3; h,r-ind=1,1
      [3,3]((17,24,37),(9,13,20),(12,17,26)); lvl=3; h,r-ind=1,1
      [3,3]((14,20,31),(17,24,37),(9,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((17,24,37),(25,35,54),(20,28,43)); lvl=3; h,r-ind=1,1
      [3,3]((17,24,37),(22,31,48),(25,35,54)); lvl=3; h,r-ind=1,1
      [3,3]((14,20,31),(17,24,37),(22,31,48)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,6),(7,10,15),(20,28,43),(12,17,26)); lvl=2; h,r-ind=1,1
      [3,3]((7,10,15),(15,21,32),(12,17,26)); lvl=3; h,r-ind=1,1
      [3,3]((20,28,43),(15,21,32),(12,17,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(20,28,43),(15,21,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(7,10,15),(15,21,32)); lvl=3; h,r-ind=1,1
    [3,3]((9,13,20),(7,10,15),(12,17,26)); lvl=2; h,r-ind=1,1
    [3,3]((11,16,25),(14,20,31),(9,13,20)); lvl=2; h,r-ind=1,1
    [4,3]((5,7,11),(11,16,25),(14,20,31),(22,31,48)); lvl=2; h,r-ind=1,1
      [3,3]((11,16,25),(19,27,42),(14,20,31)); lvl=3; h,r-ind=1,1
      [3,3]((22,31,48),(19,27,42),(14,20,31)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(11,16,25),(19,27,42)); lvl=3; h,r-ind=1,1
      [3,3]((22,31,48),(5,7,11),(19,27,42)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,6),(8,11,17),(25,35,54),(20,28,43)); lvl=2; h,r-ind=1,1
      [3,3]((28,39,60),(25,35,54),(8,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(28,39,60),(8,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((20,28,43),(28,39,60),(25,35,54)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(20,28,43),(28,39,60)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,14),(3,4,6),(8,11,17)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,11),(7,9,14),(8,11,17)); lvl=2; h,r-ind=1,1
    [4,3]((5,7,11),(22,31,48),(8,11,17),(25,35,54)); lvl=2; h,r-ind=1,1
      [3,3]((25,35,54),(22,31,48),(30,42,65)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(22,31,48),(30,42,65)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,17),(5,7,11),(30,42,65)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,17),(25,35,54),(30,42,65)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(5,7,11),(7,9,14)); lvl=1; h,r-ind=1,1
  [3,3]((8,12,19),(5,7,11),(11,16,25)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(8,12,19),(5,7,11)); lvl=1; h,r-ind=1,1
  [4,3]((6,9,13),(4,6,9),(7,10,15),(9,13,19)); lvl=1; h,r-ind=1,1
    [3,3]((13,19,28),(7,10,15),(4,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((6,9,13),(13,19,28),(4,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((9,13,19),(6,9,13),(13,19,28)); lvl=2; h,r-ind=1,1
    [3,3]((9,13,19),(13,19,28),(7,10,15)); lvl=2; h,r-ind=1,1
  [4,3]((8,12,19),(11,16,25),(4,6,9),(7,10,15)); lvl=1; h,r-ind=2,1
    [4,3]((6,9,14),(4,6,9),(9,13,20),(7,10,15)); lvl=2; h,r-ind=1,1
      [3,3]((13,19,29),(7,10,15),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(13,19,29),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((9,13,20),(13,19,29),(7,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(9,13,20),(13,19,29)); lvl=3; h,r-ind=1,1
    [4,3]((6,9,14),(8,12,19),(11,16,25),(9,13,20)); lvl=2; h,r-ind=1,1
      [3,3]((17,25,39),(11,16,25),(8,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(17,25,39),(8,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((9,13,20),(17,25,39),(11,16,25)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(9,13,20),(17,25,39)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,4),(6,9,13),(9,13,19),(5,7,10)); lvl=1; h,r-ind=1,1
    [3,3]((9,13,19),(6,9,13),(11,16,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(6,9,13),(11,16,23)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,10),(2,3,4),(11,16,23)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,10),(9,13,19),(11,16,23)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,4),(6,9,13),(4,7,9)); lvl=1; h,r-ind=2,1
    [4,3]((1,2,2),(5,8,11),(2,3,4),(6,9,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(6,9,13),(7,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,11),(6,9,13),(7,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(7,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,11),(1,2,2),(7,11,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(0,1,0),(5,8,11),(4,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((0,1,0),(4,7,9),(5,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,11),(4,7,9),(5,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(0,1,0),(5,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,11),(1,2,2),(5,9,11)); lvl=3; h,r-ind=1,1
  [5,3]((6,9,13),(3,5,7),(9,14,21),(4,6,9),(4,7,9)); lvl=1; h,r-ind=1,1
```

```
    [4,3]((9,14,20),(16,25,36),(4,6,9),(6,9,13)); lvl=2; h,r-ind=1,1
      [3,3]((16,25,36),(4,6,9),(13,20,29)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,13),(4,6,9),(13,20,29)); lvl=3; h,r-ind=1,1
      [3,3]((9,14,20),(16,25,36),(13,20,29)); lvl=3; h,r-ind=1,1
      [3,3]((9,14,20),(6,9,13),(13,20,29)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,11),(9,14,20),(6,9,13)); lvl=2; h,r-ind=1,1
    [6,3]((5,8,11),(8,13,18),(9,14,20),(15,24,34),(19,30,43),(16,25,36)); lvl=2; h,r-ind=1,1
      [3,3]((12,19,27),(19,30,43),(16,25,36)); lvl=3; h,r-ind=1,1
      [3,3]((12,19,27),(9,14,20),(16,25,36)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,11),(12,19,27),(9,14,20)); lvl=3; h,r-ind=1,1
      [3,3]((12,19,27),(15,24,34),(19,30,43)); lvl=3; h,r-ind=1,1
      [3,3]((12,19,27),(8,13,18),(15,24,34)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,11),(12,19,27),(8,13,18)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,7),(4,7,9),(8,13,18),(15,24,34)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,9),(11,18,25),(8,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((15,24,34),(11,18,25),(8,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(15,24,34),(11,18,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(4,7,9),(11,18,25)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,9),(5,8,11),(8,13,18)); lvl=2; h,r-ind=1,1
    [4,3]((7,11,16),(19,30,43),(16,25,36),(4,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((19,30,43),(16,25,36),(23,36,52)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(16,25,36),(23,36,52)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,16),(4,6,9),(23,36,52)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,16),(19,30,43),(23,36,52)); lvl=3; h,r-ind=1,1
    [3,3]((9,14,21),(7,11,16),(4,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,7),(9,14,21),(7,11,16)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,7),(15,24,34),(7,11,16),(19,30,43)); lvl=2; h,r-ind=1,1
      [3,3]((19,30,43),(15,24,34),(22,35,50)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(15,24,34),(22,35,50)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,16),(3,5,7),(22,35,50)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,16),(19,30,43),(22,35,50)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(3,5,7),(4,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((8,12,19),(0,1,0),(3,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((8,12,19),(3,5,7),(9,14,21)); lvl=1; h,r-ind=1,1
  [3,3]((8,12,19),(9,14,21),(4,6,9)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(7,9,14),(3,4,6)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((2,3,3),(2,3,4),(5,7,10),(3,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((9,12,16),(5,7,10),(6,8,11),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((8,11,15),(6,8,11),(5,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(8,11,15),(5,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,16),(8,11,15),(6,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(9,12,16),(8,11,15)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,5),(10,13,17),(9,12,16),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((12,16,21),(9,12,16),(10,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(12,16,21),(10,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(12,16,21),(9,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(12,16,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(3,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,10),(4,5,7),(6,8,11)); lvl=2; h,r-ind=1,1
    [6,3]((10,13,17),(8,10,13),(5,6,8),(9,12,16),(4,5,7),(6,8,11)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,7),(5,6,8),(7,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,13),(5,6,8),(7,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,17),(8,10,13),(7,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,11),(4,5,7),(7,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,16),(6,8,11),(7,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,17),(9,12,16),(7,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,4),(5,6,8),(4,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((8,10,13),(1,1,1),(3,3,4),(5,6,8)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,9),(3,3,4),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,13),(6,7,9),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,9),(5,6,8),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,13),(6,7,9),(5,6,8)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,5),(10,13,17),(8,10,13),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((8,10,13),(10,13,17),(11,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(10,13,17),(11,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(11,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(8,10,13),(11,14,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(3,4,5),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(2,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(3,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
```

19.68 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,18,19)); lvl=0; h,r-ind=19,361
  [3,3]((0,1,0),(4,9,9),(3,7,7)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((8,18,19),(4,9,9),(3,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((8,18,19),(0,1,0),(3,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(4,9,9)); lvl=1; h,r-ind=1,1
  [3,3]((8,18,19),(1,2,2),(4,9,9)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((8,18,19),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(8,18,19),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((8,18,19),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
```

19.69 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,9,19)); lvl=0; h,r-ind=19,361
  [3,3]((2,2,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((9,9,19),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((9,9,19),(0,1,0),(1,1,2)); lvl=1; h,r-ind=1,1
```

19.70 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,14,19)); lvl=0; h,r-ind=19,361
  [4,3]((3,4,5),(4,6,7),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(4,6,7),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(4,6,7),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,4,5),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(5,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,6),(1,2,2),(4,6,7),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,7),(2,3,3),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(1,2,2),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,6,7),(5,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((9,14,19),(3,5,6),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(9,14,19),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,5),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,4),(3,4,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((9,14,19),(2,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,4),(3,5,6),(3,4,5),(4,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((6,9,11),(4,6,7),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(6,9,11),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(6,9,11),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,5),(6,9,11)); lvl=2; h,r-ind=1,1
  [3,3]((9,14,19),(2,3,4),(3,5,6)); lvl=1; h,r-ind=1,1
```

19.71 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,18,19)); lvl=0; h,r-ind=19,361
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((9,18,19),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((9,18,19),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((9,18,19),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((9,18,19),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

19.72 Resolved

```
[3,3]((1,0,0),(0,1,0),(14,14,19)); lvl=0; h,r-ind=19,361
  [3,3]((1,0,0),(4,4,5),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,4,5),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((14,14,19),(0,1,0),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((14,14,19),(1,0,0),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(4,4,5)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((0,1,0),(1,1,1),(4,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

19.73 Resolved

```
[3,3]((1,0,0),(0,1,0),(14,18,19)); lvl=0; h,r-ind=19,361
  [3,3]((4,5,5),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,4),(4,5,5),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((14,18,19),(3,4,4),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((14,18,19),(3,4,4),(4,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((14,18,19),(4,5,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(14,18,19),(1,1,1)); lvl=1; h,r-ind=1,1
```

19.74 Resolved

```
[3,3]((1,0,0),(0,1,0),(18,18,19)); lvl=0; h,r-ind=19,361
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((18,18,19),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((18,18,19),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

20 H-index = 20

20.0 Classification

```
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[3,3]((1,0,0),(0,1,0),(0,3,20))
  [3,3]((1,0,0),(0,1,0),(0,3,20))
  [3,3]((1,0,0),(0,1,0),(0,7,20))
  [3,3]((1,0,0),(0,1,0),(3,0,20))
  [3,3]((1,0,0),(0,1,0),(7,0,20))
  [3,3]((1,0,0),(3,20,0),(0,0,1))
  [3,3]((1,0,0),(7,20,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,9,20))
  [3,3]((1,0,0),(0,1,0),(0,9,20))
  [3,3]((1,0,0),(0,1,0),(9,0,20))
  [3,3]((1,0,0),(9,20,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,11,20))
  [3,3]((1,0,0),(0,1,0),(0,11,20))
  [3,3]((1,0,0),(0,1,0),(11,0,20))
  [3,3]((1,0,0),(11,20,0),(0,0,1))
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  [3,3]((1,0,0),(0,1,0),(0,13,20))
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  [3,3]((1,0,0),(0,1,0),(13,0,20))
  [3,3]((1,0,0),(0,1,0),(17,0,20))
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  [3,3]((1,0,0),(0,1,0),(19,0,20))
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[3,3]((1,0,0),(0,1,0),(1,1,20))
  [3,3]((1,0,0),(0,1,0),(1,1,20))
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[3,3]((1,0,0),(0,1,0),(1,2,20))
  [3,3]((1,0,0),(0,1,0),(1,2,20))
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  [3,3]((1,0,0),(0,1,0),(1,3,20))
  [3,3]((1,0,0),(0,1,0),(1,17,20))
```

```
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```

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  [3,3]((1,0,0),(0,1,0),(10,7,20))
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```

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  [3,3]((1,0,0),(0,1,0),(15,18,20))
  [3,3]((1,0,0),(0,1,0),(18,15,20))
  [3,3]((1,0,0),(1,2,0),(7,5,10))
```

```
  [3,3]((1,0,0),(1,2,0),(7,9,10))
  [3,3]((1,0,0),(2,5,0),(3,2,4))
  [3,3]((1,0,0),(3,5,0),(3,3,4))
[3,3]((1,0,0),(0,1,0),(15,19,20))
  [3,3]((1,0,0),(0,1,0),(15,19,20))
  [3,3]((1,0,0),(0,1,0),(19,15,20))
  [3,3]((1,0,0),(4,5,0),(3,3,4))
[3,3]((1,0,0),(0,1,0),(16,19,20))
  [3,3]((1,0,0),(0,1,0),(16,19,20))
  [3,3]((1,0,0),(0,1,0),(19,16,20))
  [3,3]((1,0,0),(3,4,0),(4,4,5))
[3,3]((1,0,0),(0,1,0),(18,19,20))
  [3,3]((1,0,0),(0,1,0),(18,19,20))
  [3,3]((1,0,0),(0,1,0),(19,18,20))
  [3,3]((1,0,0),(1,2,0),(9,9,10))
[3,3]((1,0,0),(0,1,0),(19,19,20))
  [3,3]((1,0,0),(0,1,0),(19,19,20))
[3,3]((1,0,0),(1,2,0),(1,0,10))
  [3,3]((1,0,0),(1,2,0),(1,0,10))
  [3,3]((1,0,0),(1,2,0),(1,2,10))
  [3,3]((1,0,0),(1,10,0),(1,0,2))
[3,3]((1,0,0),(1,2,0),(1,4,10))
  [3,3]((1,0,0),(1,2,0),(1,4,10))
  [3,3]((1,0,0),(1,2,0),(1,6,10))
  [3,3]((1,0,0),(1,2,0),(1,8,10))
[3,3]((1,0,0),(1,2,0),(3,0,10))
  [3,3]((1,0,0),(1,2,0),(3,0,10))
  [3,3]((1,0,0),(1,2,0),(3,6,10))
  [3,3]((1,0,0),(1,2,0),(7,0,10))
  [3,3]((1,0,0),(1,2,0),(7,4,10))
  [3,3]((1,0,0),(3,10,0),(1,0,2))
  [3,3]((1,0,0),(7,10,0),(1,0,2))
[3,3]((1,0,0),(1,2,0),(3,2,10))
  [3,3]((1,0,0),(1,2,0),(3,2,10))
  [3,3]((1,0,0),(1,2,0),(3,4,10))
  [3,3]((1,0,0),(1,2,0),(5,4,10))
  [3,3]((1,0,0),(1,2,0),(5,6,10))
  [3,3]((1,0,0),(1,2,0),(9,2,10))
  [3,3]((1,0,0),(1,2,0),(9,6,10))
[3,3]((1,0,0),(1,2,0),(3,8,10))
  [3,3]((1,0,0),(1,2,0),(3,8,10))
[3,3]((1,0,0),(1,2,0),(5,2,10))
  [3,3]((1,0,0),(1,2,0),(5,2,10))
  [3,3]((1,0,0),(1,2,0),(5,8,10))
  [3,3]((1,0,0),(1,2,0),(7,2,10))
[3,3]((1,0,0),(1,2,0),(7,6,10))
  [3,3]((1,0,0),(1,2,0),(7,6,10))
  [3,3]((1,0,0),(1,2,0),(7,8,10))
  [3,3]((1,0,0),(1,2,0),(9,4,10))
[3,3]((1,0,0),(1,2,0),(9,0,10))
  [3,3]((1,0,0),(1,2,0),(9,0,10))
  [3,3]((1,0,0),(1,2,0),(9,8,10))
  [3,3]((1,0,0),(9,10,0),(1,0,2))
```

20.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,20)); lvl=0; h,r-ind=20,20
  [3,3]((1,0,0),(0,1,10),(0,1,0)); lvl=1; h,r-ind=10,10; optimized-h
  [3,3]((1,0,0),(0,1,20),(0,1,10)); lvl=1; h,r-ind=10,10; optimized-h
```

20.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,3,20)); lvl=0; h,r-ind=20,20
  [3,3]((1,0,0),(0,3,19),(0,2,7)); lvl=1; h,r-ind=17,17; optimized-h
  [3,3]((1,0,0),(0,1,0),(0,2,7)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,0,0),(0,3,20),(0,3,19)); lvl=1; h,r-ind=3,3; optimized-h
```

20.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,9,20)); lvl=0; h,r-ind=20,20
  [3,3]((1,0,0),(0,1,2),(0,6,13)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,9,20),(0,6,13)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,2),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
```

20.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,11,20)); lvl=0; h,r-ind=20,20
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,3,5),(0,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,5,9),(0,3,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,11,20),(0,5,9)); lvl=1; h,r-ind=1,1
```

20.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,13,20)); lvl=0; h,r-ind=20,20
  [3,3]((1,0,0),(0,1,1),(0,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,2,3),(0,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,13,20),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
```

20.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,19,20)); lvl=0; h,r-ind=20,20
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,19,20),(0,1,1)); lvl=1; h,r-ind=1,1
```

20.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,20)); lvl=0; h,r-ind=20,400
  [3,3]((1,0,0),(1,1,10),(1,1,19)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((0,1,0),(1,1,10),(1,1,19)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((1,1,20),(0,1,0),(1,1,19)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,20),(1,0,0),(1,1,19)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,10)); lvl=1; h,r-ind=10,100; optimized-h
```

20.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,20)); lvl=0; h,r-ind=20,200
  [4,3]((1,0,0),(1,1,10),(1,2,10),(1,2,18)); lvl=1; h,r-ind=2,2
    [4,3]((2,2,15),(1,1,5),(1,2,10),(1,2,14)); lvl=2; h,r-ind=1,1
      [4,3]((2,2,13),(1,1,5),(1,2,12),(1,2,10)); lvl=3; h,r-ind=1,1
        [4,3]((1,1,5),(1,1,6),(1,2,10),(1,2,11)); lvl=4; h,r-ind=1,1
          [3,3]((1,2,10),(1,2,11),(2,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(1,2,11),(2,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(1,2,10),(2,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(1,1,5),(2,3,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,6),(1,2,12),(1,2,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,13),(1,1,6),(1,2,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,14),(2,2,13),(1,1,7),(1,2,12)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,26),(2,2,13),(1,1,7)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,14),(1,2,13),(3,4,26),(1,1,7)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,20),(1,2,13),(3,4,26)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,20),(1,1,7),(3,4,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,14),(2,3,20),(1,1,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,14),(2,3,20),(1,2,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,12),(1,2,13),(3,4,26)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [3,3]((1,2,12),(3,4,26),(2,2,13)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,14),(2,2,15),(1,1,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,15),(1,1,9),(1,2,18),(1,2,14)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,8),(1,1,9),(1,2,16),(1,2,18)); lvl=3; h,r-ind=1,1
        [4,3]((1,1,9),(3,4,34),(1,2,17),(1,2,18)); lvl=4; h,r-ind=1,2; alert-r-inc
```

```
          [3,3]((2,3,26),(3,4,34),(1,2,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,18),(2,3,26),(1,2,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,9),(1,2,18),(2,3,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,9),(2,3,26),(3,4,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,8),(1,1,9),(3,4,34)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,8),(3,4,34),(1,2,16),(1,2,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,2,16),(1,2,17),(2,3,25)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,34),(1,2,17),(2,3,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,8),(3,4,34),(2,3,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,8),(1,2,16),(2,3,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,14),(1,1,8),(1,2,16)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,14),(2,2,15),(1,1,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,15),(1,1,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,10),(1,0,0),(1,1,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,10),(1,1,9),(1,2,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,15),(1,1,5)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,2,10),(1,2,18)); lvl=1; h,r-ind=8,8; optimized-h
  [3,3]((1,2,20),(1,1,10),(1,2,18)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,20),(1,2,18)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,10)); lvl=1; h,r-ind=10,50; optimized-h
```

20.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,20)); lvl=0; h,r-ind=20,400
  [4,3]((1,0,0),(1,2,12),(2,3,19),(1,2,7)); lvl=1; h,r-ind=1,2
    [4,3]((1,2,12),(2,4,19),(1,1,5),(1,1,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,10),(2,4,21),(1,1,5),(4,5,27)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,5),(2,3,16),(4,5,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,31),(1,1,5),(2,3,16)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,10),(4,6,31),(2,4,21),(2,3,16)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,16),(3,5,26),(4,6,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,10),(3,5,26),(4,6,31)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,21),(1,2,10),(3,5,26)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,21),(2,3,16),(3,5,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,10),(4,6,31),(1,1,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,6),(1,1,5),(4,5,27)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,12),(1,1,6),(2,4,21),(4,5,27)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((5,7,39),(2,3,16),(1,1,6),(4,5,27)); lvl=4; h,r-ind=1,3
          [3,3]((3,4,22),(2,3,16),(4,5,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(3,4,22),(4,5,27)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,39),(3,4,22),(2,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(5,7,39),(3,4,22)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,11),(1,2,12),(5,7,39),(1,1,6)); lvl=4; h,r-ind=1,3
          [3,3]((2,3,17),(1,2,12),(1,1,6)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,39),(2,3,17),(1,1,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,11),(5,7,39),(2,3,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,11),(2,3,17),(1,2,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,11),(5,7,39),(2,3,16)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,2,11),(2,4,21),(2,3,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,19),(1,2,10),(1,1,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,5),(1,1,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,19),(1,2,12),(1,1,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,19),(1,1,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,7),(1,1,4),(2,4,19),(1,1,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,5),(1,1,4),(4,5,22)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,7),(2,4,17),(1,1,4),(4,5,22)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,1,4),(4,5,22),(5,7,29),(2,3,13)); lvl=4; h,r-ind=1,3
          [3,3]((3,4,17),(4,5,22),(2,3,13)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,29),(3,4,17),(2,3,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(5,7,29),(3,4,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(3,4,17),(4,5,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,8),(5,7,29),(2,3,13)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,2,8),(2,4,17),(2,3,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,4),(1,2,8),(1,2,7),(5,7,29)); lvl=4; h,r-ind=1,3
          [3,3]((1,2,8),(1,2,7),(2,3,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(1,2,7),(2,3,12)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,29),(1,2,8),(2,3,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(5,7,29),(2,3,12)); lvl=5; h,r-ind=1,1
      [4,3]((2,4,17),(1,2,9),(1,1,5),(4,5,22)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,9),(1,1,5),(4,6,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,13),(1,1,5),(4,6,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,13),(4,5,22),(1,1,5)); lvl=4; h,r-ind=1,1
        [4,3]((2,4,17),(2,3,13),(1,2,9),(4,6,27)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,13),(4,6,27),(3,5,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,9),(4,6,27),(3,5,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,17),(1,2,9),(3,5,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,17),(2,3,13),(3,5,22)); lvl=5; h,r-ind=1,1
```

```
      [3,3]((1,2,9),(2,4,19),(1,1,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,4),(1,1,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,7),(1,0,0),(1,1,4)); lvl=2; h,r-ind=1,1
  [5,3]((1,3,10),(2,5,30),(1,3,17),(1,2,12),(1,2,7)); lvl=1; h,r-ind=1,1
    [5,3]((1,3,10),(2,6,27),(4,10,47),(1,2,7),(2,4,19)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,23),(3,7,33),(3,8,37),(4,10,47)); lvl=3; h,r-ind=1,1
        [3,3]((6,15,70),(4,10,47),(3,7,33)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,23),(6,15,70),(3,7,33)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,37),(6,15,70),(4,10,47)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,23),(3,8,37),(6,15,70)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,23),(2,4,19),(3,7,33),(1,2,9)); lvl=3; h,r-ind=1,1
        [3,3]((4,9,42),(2,4,19),(3,7,33)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,23),(4,9,42),(3,7,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,9),(4,9,42),(2,4,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,23),(1,2,9),(4,9,42)); lvl=4; h,r-ind=1,1
      [5,3]((1,3,13),(1,3,12),(2,4,17),(2,5,23),(1,2,9)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,30),(2,4,17),(1,2,9)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,22),(4,10,43),(3,7,30),(1,2,9)); lvl=4; h,r-ind=1,1
          [3,3]((5,12,52),(3,7,30),(4,10,43)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,22),(5,12,52),(4,10,43)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,9),(2,5,22),(5,12,52)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,9),(5,12,52),(3,7,30)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,22),(2,5,23),(1,2,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,13),(2,5,22),(2,5,23)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,13),(3,8,34),(2,5,22),(4,10,43)); lvl=4; h,r-ind=1,1
          [3,3]((2,5,22),(4,10,43),(5,13,56)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,34),(4,10,43),(5,13,56)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,13),(3,8,34),(5,13,56)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,13),(2,5,22),(5,13,56)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,12),(1,3,13),(3,8,34)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,12),(3,8,34),(4,10,43),(3,7,30)); lvl=4; h,r-ind=1,1
          [3,3]((3,8,34),(9,23,98),(4,10,43)); lvl=5; h,r-ind=1,1
          [4,3]((2,5,21),(3,7,30),(9,23,98),(4,10,43)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((6,15,64),(4,10,43),(3,7,30)); lvl=6; h,r-ind=1,1
            [3,3]((2,5,21),(6,15,64),(3,7,30)); lvl=6; h,r-ind=1,1
            [3,3]((9,23,98),(6,15,64),(4,10,43)); lvl=6; h,r-ind=1,1
            [3,3]((2,5,21),(9,23,98),(6,15,64)); lvl=6; h,r-ind=1,1
          [4,3]((1,3,12),(2,5,21),(3,8,34),(9,23,98)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((5,13,55),(2,5,21),(9,23,98)); lvl=6; h,r-ind=1,1
            [3,3]((5,13,55),(3,8,34),(9,23,98)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,12),(5,13,55),(3,8,34)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,12),(5,13,55),(2,5,21)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,12),(3,7,30),(2,4,17)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,3,10),(1,3,12),(1,2,7),(2,4,17)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,12),(1,2,8),(2,4,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,12),(1,3,11),(1,2,8)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,11),(1,3,10),(1,2,7),(1,2,8)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,10),(1,2,7),(2,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,8),(1,2,7),(2,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,11),(1,3,10),(2,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,8),(1,3,11),(2,5,18)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,13),(2,6,27),(2,5,23),(3,8,37)); lvl=3; h,r-ind=1,1
        [3,3]((2,6,27),(3,8,37),(4,11,50)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,23),(3,8,37),(4,11,50)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,13),(2,5,23),(4,11,50)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,13),(2,6,27),(4,11,50)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,29),(4,10,47),(1,2,12),(2,4,19)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,19),(1,2,10),(3,7,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,24),(1,2,10),(3,7,33)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,47),(2,5,24),(3,7,33)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,26),(2,5,24),(2,4,21),(1,2,10)); lvl=3; h,r-ind=1,1
        [3,3]((4,9,46),(1,2,10),(2,4,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,26),(4,9,46),(2,4,21)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [4,3]((2,5,25),(4,9,46),(2,5,24),(1,2,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,2,10),(3,7,35),(4,9,46)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,25),(3,7,35),(4,9,46)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,24),(2,5,25),(3,7,35)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,24),(1,2,10),(3,7,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,26),(2,5,25),(4,9,46)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((2,5,29),(2,5,26),(1,2,12),(2,4,21)); lvl=3; h,r-ind=3,1; alert-h-inc
        [3,3]((2,5,26),(1,2,11),(2,4,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,55),(2,5,26),(1,2,11)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
        [4,3]((2,5,29),(4,10,55),(1,2,12),(1,2,11)); lvl=4; h,r-ind=1,1
          [3,3]((4,9,51),(1,2,11),(1,2,12)); lvl=5; h,r-ind=1,1
          [4,3]((2,5,29),(2,5,28),(4,9,51),(1,2,12)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,7,40),(4,9,51),(2,5,28)); lvl=6; h,r-ind=1,1
            [3,3]((2,5,29),(3,7,40),(2,5,28)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,12),(2,5,29),(3,7,40)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,12),(3,7,40),(4,9,51)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,28),(4,9,51),(1,2,11)); lvl=5; h,r-ind=1,1
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        [3,3]((4,10,55),(2,5,28),(1,2,11)); lvl=5; h,r-ind=1,1
    [3,3]((2,5,30),(2,5,29),(1,2,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,17),(2,5,29),(2,6,27),(4,10,47)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,15),(1,3,14),(2,5,24),(2,5,26)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,14),(4,11,54),(2,5,24),(2,5,25)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,8,39),(2,5,24),(2,5,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,54),(3,8,39),(2,5,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,14),(4,11,54),(3,8,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,14),(3,8,39),(2,5,24)); lvl=5; h,r-ind=1,1
        [4,3]((2,5,26),(1,3,15),(4,11,54),(2,5,25)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,3,15),(4,11,54),(3,8,40)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,25),(4,11,54),(3,8,40)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,26),(1,3,15),(3,8,40)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,25),(2,5,26),(3,8,40)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,15),(1,3,14),(4,11,54)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,17),(1,3,15),(2,5,29),(2,5,26)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,16),(1,3,15),(4,10,55),(2,5,26)); lvl=4; h,r-ind=1,1
          [4,3]((1,3,15),(2,5,27),(4,11,58),(2,5,26)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((4,11,58),(3,8,42),(2,5,27)); lvl=6; h,r-ind=1,1
            [3,3]((2,5,26),(3,8,42),(2,5,27)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,15),(2,5,26),(3,8,42)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,15),(4,11,58),(3,8,42)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,16),(2,5,27),(4,11,58)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,15),(1,3,16),(4,11,58)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,16),(4,10,55),(2,5,27)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,17),(1,3,16),(2,5,29),(4,10,55)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,16),(2,5,28),(4,10,55)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,61),(1,3,16),(2,5,28)); lvl=5; h,r-ind=1,1
          [4,3]((1,3,17),(4,11,61),(2,5,29),(2,5,28)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,5,29),(3,8,45),(2,5,28)); lvl=6; h,r-ind=1,1
            [3,3]((4,11,61),(3,8,45),(2,5,28)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,17),(4,11,61),(3,8,45)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,17),(2,5,29),(3,8,45)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,17),(4,11,61),(1,3,16)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,37),(1,3,14),(2,5,24)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,37),(4,10,47),(2,5,24)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,37),(2,6,27),(1,3,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,30),(1,3,17),(2,5,29)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(1,3,10),(1,2,7)); lvl=1; h,r-ind=1,1
    [5,3]((1,3,7),(1,3,5),(1,1,2),(1,1,3),(1,2,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [4,3]((1,1,2),(2,4,9),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,4),(2,4,9),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(2,4,9),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(1,2,4),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(1,1,2),(3,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,2),(2,3,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,3),(1,2,5),(2,4,9),(2,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,5),(2,4,9),(3,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(2,4,9),(3,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(1,2,5),(3,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(1,1,3),(3,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(1,1,3),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(1,2,6),(1,2,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,7),(1,3,6),(1,2,5),(2,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,5),(2,4,9),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(2,4,9),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(1,2,5),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,3,7),(2,5,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,5),(1,3,6),(2,4,9),(1,2,4)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,10),(1,3,6),(2,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(1,2,4),(2,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,5,10),(1,2,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,5,10),(1,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,3,5),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,7),(3,7,23),(1,1,3),(1,2,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,13),(3,7,23),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,4,13),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(1,1,3),(2,4,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(2,4,13),(3,7,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,7),(1,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,10),(3,7,23),(1,3,7),(1,2,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,16),(1,2,6),(3,7,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,10),(2,5,16),(3,7,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,16),(2,5,15),(1,2,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,7),(2,6,17),(2,5,15),(1,2,6)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,8),(4,10,29),(2,6,17),(2,5,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,8,23),(4,10,29),(2,5,15)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,17),(3,8,23),(2,5,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(2,6,17),(3,8,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(3,8,23),(4,10,29)); lvl=5; h,r-ind=1,1
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      [3,3]((1,2,6),(4,10,29),(2,5,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(1,2,6),(4,10,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(1,3,7),(1,2,6)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,10),(2,6,17),(2,5,16),(2,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,40),(2,5,15),(2,5,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,10),(1,3,9),(5,13,40),(2,5,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,25),(5,13,40),(1,3,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(3,8,25),(1,3,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,16),(1,3,10),(3,8,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,16),(3,8,25),(5,13,40)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,9),(5,13,40),(2,5,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(2,6,17),(2,5,15)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,10),(1,3,7)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,2,7),(1,3,10),(3,7,23)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,7),(1,3,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,0,0),(0,1,0),(1,3,5),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,2),(2,2,3),(2,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(1,1,1),(2,3,4),(5,6,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(3,4,5),(1,1,1)); lvl=5; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(5,6,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,3),(1,1,1),(5,6,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=5; h,r-ind=1,1
    [4,3]((1,1,2),(1,2,3),(2,2,3),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,4),(3,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(3,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(3,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(1,3,5),(1,2,3)); lvl=3; h,r-ind=1,1
    [5,3]((2,5,7),(1,2,3),(1,2,2),(2,5,5),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,3,4),(1,2,3)); lvl=4; h,r-ind=1,1
      [4,3]((2,4,5),(6,13,16),(5,11,14),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,14),(6,13,16),(7,15,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(6,13,16),(7,15,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,5),(7,15,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(5,11,14),(7,15,19)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,7),(5,11,14),(3,7,9),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,12),(3,7,9),(5,11,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(4,9,12),(5,11,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,7),(4,9,12),(3,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(2,5,7),(4,9,12)); lvl=5; h,r-ind=1,1
      [6,3]((2,5,6),(3,7,8),(5,11,13),(6,13,16),(5,11,14),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((6,13,16),(4,9,11),(5,11,14)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,9),(4,9,11),(5,11,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,6),(3,7,9),(4,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,8),(2,5,6),(4,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((5,11,13),(6,13,16),(4,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,8),(5,11,13),(4,9,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,7),(2,5,6),(3,7,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,2),(5,11,13),(2,4,5),(6,13,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(6,13,16),(7,15,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(6,13,16),(7,15,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(5,11,13),(7,15,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(1,2,2),(7,15,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,5),(1,2,2),(3,7,8),(5,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,10),(5,11,13),(1,2,2)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,5),(4,9,10),(1,2,2)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,8),(4,9,10),(5,11,13)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,8),(2,5,5),(4,9,10)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,6),(2,5,5),(3,7,8)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,5),(2,5,7),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,5),(2,5,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(2,6,7),(2,5,6),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,10),(2,5,6),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,10),(2,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,10),(2,5,7),(2,5,6)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,4),(2,6,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,3),(2,6,7),(2,5,6),(2,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(3,8,9),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(3,8,9),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,5),(1,3,3),(3,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,5),(2,5,6),(3,8,9)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(2,5,5)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((0,1,0),(1,3,3),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,3,4),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,7),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,10),(1,3,17)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,3,20),(0,1,0),(1,3,17)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,3,20),(2,5,30),(1,3,17),(2,5,32)); lvl=1; h,r-ind=1,1
    [4,3]((2,6,37),(2,5,31),(1,3,17),(2,5,30)); lvl=2; h,r-ind=1,1
      [3,3]((5,13,79),(2,5,31),(2,5,30)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,17),(5,13,79),(1,3,18),(2,5,30)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,18),(5,13,79),(3,8,48)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,30),(5,13,79),(3,8,48)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,17),(1,3,18),(3,8,48)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,30),(1,3,17),(3,8,48)); lvl=4; h,r-ind=1,1
      [3,3]((5,13,79),(1,3,18),(2,5,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,37),(1,3,18),(2,5,31)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,20),(2,6,37),(2,5,31),(2,5,32)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,31),(1,3,19),(2,6,37)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,82),(2,5,31),(1,3,19)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,20),(2,5,32),(5,13,82),(1,3,19)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,51),(2,5,32),(5,13,82)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,19),(3,8,51),(5,13,82)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,20),(3,8,51),(2,5,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,19),(1,3,20),(3,8,51)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,32),(5,13,82),(2,5,31)); lvl=3; h,r-ind=1,1
  [5,3]((2,5,30),(1,2,13),(2,5,32),(1,2,12),(2,3,19)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,13),(3,7,44),(5,11,69),(2,5,32)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,69),(4,9,57),(3,7,44)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,32),(4,9,57),(3,7,44)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,13),(2,5,32),(4,9,57)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,13),(5,11,69),(4,9,57)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,31),(3,7,44),(2,5,32)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,13),(5,11,69),(6,13,81),(2,4,25)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,69),(6,13,81),(7,15,94)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,25),(6,13,81),(7,15,94)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,13),(5,11,69),(7,15,94)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,25),(1,2,13),(7,15,94)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,19),(1,2,13),(2,4,25)); lvl=2; h,r-ind=1,1
    [4,3]((5,11,68),(1,2,12),(6,13,81),(2,4,25)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,25),(1,2,12),(7,15,93)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,68),(1,2,12),(7,15,93)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,81),(5,11,68),(7,15,93)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,81),(2,4,25),(7,15,93)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,19),(1,2,12),(2,4,25)); lvl=2; h,r-ind=1,1
    [6,3]((3,7,43),(5,11,68),(2,5,31),(3,7,44),(5,11,69),(6,13,81)); lvl=2; h,r-ind=1,1
      [3,3]((6,13,81),(5,11,68),(4,9,56)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,43),(5,11,68),(4,9,56)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,43),(2,5,31),(4,9,56)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,81),(5,11,69),(4,9,56)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,44),(5,11,69),(4,9,56)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,31),(3,7,44),(4,9,56)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,30),(3,7,43),(5,11,68),(1,2,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,55),(5,11,68),(3,7,43)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,30),(4,9,55),(3,7,43)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,12),(4,9,55),(5,11,68)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,30),(1,2,12),(4,9,55)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,30),(3,7,43),(2,5,31)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,13),(2,3,19)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,20),(1,2,13),(2,5,32)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,20),(1,2,13)); lvl=1; h,r-ind=1,1
```

20.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,4,20)); lvl=0; h,r-ind=20,100
  [4,3]((1,0,0),(1,2,10),(1,4,16),(1,4,10)); lvl=1; h,r-ind=4,4
    [5,3]((1,4,13),(1,2,7),(1,2,8),(1,3,13),(1,4,16)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,19),(1,2,8),(1,2,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,10),(2,5,19),(2,6,23),(1,2,7)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,11),(4,10,37),(2,6,23),(2,5,19)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,8,30),(4,10,37),(2,5,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,23),(3,8,30),(2,5,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,11),(2,6,23),(3,8,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,11),(3,8,30),(4,10,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(4,10,37),(2,5,19)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((1,2,7),(1,3,11),(4,10,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(1,3,11),(1,3,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,13),(2,8,29),(1,3,10),(2,6,23)); lvl=3; h,r-ind=3,1; alert-h-inc
        [3,3]((2,7,26),(2,6,23),(1,3,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,14),(2,7,26),(1,3,11)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,13),(1,4,14),(1,3,10),(1,3,11)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,10),(1,3,11),(2,7,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,14),(1,3,11),(2,7,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,13),(1,3,10),(2,7,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,14),(1,4,13),(2,7,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,14),(2,8,29),(2,7,26)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,19),(2,6,23),(1,2,8),(1,3,12)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,12),(2,6,23),(3,8,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,19),(2,6,23),(3,8,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,8),(2,5,19),(3,8,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,8),(1,3,12),(3,8,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(1,3,13),(1,3,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,16),(1,3,13),(1,3,12)); lvl=3; h,r-ind=1,1
      [4,3]((2,8,29),(2,6,23),(1,4,16),(1,3,12)); lvl=3; h,r-ind=1,1
        [4,3]((2,6,23),(1,3,12),(3,10,38),(5,17,65)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,12),(5,17,65),(4,13,50)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,38),(5,17,65),(4,13,50)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,23),(3,10,38),(4,13,50)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,23),(1,3,12),(4,13,50)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,15),(2,7,26),(3,10,38),(5,17,65)); lvl=4; h,r-ind=1,1
          [3,3]((4,14,53),(2,7,26),(3,10,38)); lvl=5; h,r-ind=1,1
          [3,3]((5,17,65),(4,14,53),(3,10,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,15),(5,17,65),(4,14,53)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,15),(4,14,53),(2,7,26)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,29),(1,4,15),(2,7,26)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,15),(1,4,16),(1,3,12),(5,17,65)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,7,27),(1,3,12),(1,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,15),(2,7,27),(1,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((5,17,65),(2,7,27),(1,3,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,15),(5,17,65),(2,7,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,26),(2,6,23),(3,10,38)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,8),(1,2,10),(1,3,13)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,2,8),(1,2,10),(1,1,5)); lvl=2; h,r-ind=2,2; optimized-h
    [4,3]((1,0,0),(1,2,7),(1,2,8),(1,1,5)); lvl=2; h,r-ind=1,2
      [3,3]((1,1,4),(1,2,7),(1,2,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,5),(1,1,4),(1,2,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,5),(1,1,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,4),(1,2,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,10),(1,2,6),(1,4,13),(1,2,7)); lvl=2; h,r-ind=2,1
      [3,3]((1,3,9),(1,2,7),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(1,3,9),(1,2,6)); lvl=3; h,r-ind=1,1
      [4,3]((2,8,23),(1,4,10),(1,3,8),(1,3,9)); lvl=3; h,r-ind=1,1
        [4,3]((1,4,11),(3,10,28),(1,4,10),(1,3,8)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,10,28),(2,7,19),(1,3,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,10),(2,7,19),(1,3,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,11),(1,4,10),(2,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,11),(3,10,28),(2,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,9),(3,10,28),(1,3,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(1,4,11),(3,10,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(2,8,23),(1,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,10),(1,3,9),(1,2,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,8,23),(1,4,13),(1,3,10),(1,3,9)); lvl=3; h,r-ind=1,1
        [4,3]((1,4,12),(3,10,31),(1,3,10),(1,4,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,10,31),(2,7,22),(1,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,13),(2,7,22),(1,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,12),(1,4,13),(2,7,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,12),(3,10,31),(2,7,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,9),(1,4,12),(3,10,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(2,8,23),(1,4,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(3,10,31),(1,3,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,10),(1,2,5),(1,2,6)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,0,0),(1,2,5),(1,2,6)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,0,0),(1,2,6),(1,2,7)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,4,16),(1,4,10)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((1,4,20),(0,1,0),(1,4,16)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,4,10)); lvl=1; h,r-ind=10,50; optimized-h
  [3,3]((1,4,20),(1,2,10),(1,4,16)); lvl=1; h,r-ind=8,4; optimized-h
```

20.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,5,20)); lvl=0; h,r-ind=20,80
  [4,3]((1,0,0),(2,5,20),(1,5,15),(1,5,10)); lvl=1; h,r-ind=25,5; alert-h-inc
```

```
[5,3]((2,5,15),(2,10,25),(1,5,15),(1,3,10),(2,7,24)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,23),(1,4,13),(2,7,24)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,10),(2,7,23),(3,10,32),(2,7,24)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,33),(3,10,32),(2,7,23)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,24),(3,10,33),(2,7,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,10),(2,7,24),(3,10,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,10),(3,10,33),(3,10,32)); lvl=4; h,r-ind=1,1
  [5,3]((2,7,21),(3,10,31),(2,7,23),(3,10,32),(1,4,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,22),(3,10,32),(2,7,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,13),(2,7,22),(2,7,23)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,21),(1,4,13),(2,7,22)); lvl=4; h,r-ind=1,1
    [3,3]((3,10,31),(2,7,22),(3,10,32)); lvl=4; h,r-ind=1,1
    [3,3]((3,10,31),(2,7,21),(2,7,22)); lvl=4; h,r-ind=1,1
  [4,3]((2,10,27),(2,7,21),(1,5,15),(1,4,13)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [3,3]((2,7,21),(1,4,12),(1,4,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,15),(1,4,12),(1,4,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,14),(1,5,15),(1,4,12)); lvl=4; h,r-ind=1,1
    [3,3]((4,17,48),(2,7,21),(1,4,12)); lvl=4; h,r-ind=3,3; optimized-h
    [4,3]((2,10,27),(4,17,48),(1,5,14),(1,4,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,25),(1,4,12),(4,18,51)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,14),(1,4,12),(4,18,51)); lvl=5; h,r-ind=1,1
      [4,3]((2,10,27),(1,5,14),(2,9,25),(4,18,51)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,25),(4,18,51),(3,14,39)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,14),(4,18,51),(3,14,39)); lvl=6; h,r-ind=1,1
        [3,3]((2,10,27),(1,5,14),(3,14,39)); lvl=6; h,r-ind=1,1
        [3,3]((2,10,27),(2,9,25),(3,14,39)); lvl=6; h,r-ind=1,1
      [3,3]((2,9,25),(4,17,48),(1,4,12)); lvl=5; h,r-ind=1,1
  [4,3]((1,5,13),(2,10,27),(2,7,20),(2,7,21)); lvl=3; h,r-ind=3,1; alert-h-inc
    [3,3]((1,4,11),(2,7,21),(2,7,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,11),(4,17,48),(2,7,21)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((1,4,11),(1,5,13),(4,17,48),(2,10,27)); lvl=4; h,r-ind=1,1
      [4,3]((4,18,49),(2,9,25),(1,5,13),(2,10,27)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,38),(1,5,13),(2,10,27)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,25),(3,14,38),(2,10,27)); lvl=6; h,r-ind=1,1
        [3,3]((4,18,49),(2,9,25),(3,14,38)); lvl=6; h,r-ind=1,1
        [3,3]((4,18,49),(3,14,38),(1,5,13)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,11),(4,18,49),(2,9,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,11),(2,9,25),(4,17,48)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,11),(4,18,49),(1,5,13)); lvl=5; h,r-ind=1,1
  [3,3]((1,3,9),(2,7,20),(2,7,21)); lvl=3; h,r-ind=1,1
  [4,3]((2,10,25),(1,5,13),(4,15,40),(2,7,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,11),(3,11,30),(2,7,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,21),(1,4,11),(3,11,30)); lvl=4; h,r-ind=1,1
    [3,3]((4,15,40),(2,8,21),(3,11,30)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,21),(4,17,44),(1,4,11)); lvl=4; h,r-ind=1,1
    [4,3]((2,10,25),(4,17,44),(1,5,13),(1,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,23),(1,4,11),(4,18,47)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,13),(1,4,11),(4,18,47)); lvl=5; h,r-ind=1,1
      [4,3]((2,10,25),(1,5,13),(2,9,23),(4,18,47)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,36),(4,18,47),(2,9,23)); lvl=6; h,r-ind=1,1
        [3,3]((2,10,25),(3,14,36),(2,9,23)); lvl=6; h,r-ind=1,1
        [3,3]((3,14,36),(1,5,13),(4,18,47)); lvl=6; h,r-ind=1,1
        [3,3]((2,10,25),(3,14,36),(1,5,13)); lvl=6; h,r-ind=1,1
      [3,3]((2,9,23),(4,17,44),(1,4,11)); lvl=5; h,r-ind=1,1
  [4,3]((2,5,15),(1,3,9),(4,15,40),(2,7,20)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,9),(2,7,20),(5,17,48),(9,30,85)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,20),(6,20,57),(5,17,48)); lvl=5; h,r-ind=1,1
      [3,3]((9,30,85),(6,20,57),(5,17,48)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,9),(9,30,85),(6,20,57)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,9),(2,7,20),(6,20,57)); lvl=5; h,r-ind=1,1
    [5,3]((2,7,19),(3,10,28),(3,11,30),(5,17,48),(9,30,85)); lvl=4; h,r-ind=1,1
      [3,3]((5,17,48),(8,27,76),(9,30,85)); lvl=5; h,r-ind=1,1
      [3,3]((3,10,28),(8,27,76),(9,30,85)); lvl=5; h,r-ind=1,1
      [3,3]((3,10,28),(2,7,19),(12,41,114)); lvl=5; h,r-ind=1,1
      [4,3]((4,14,39),(7,24,67),(5,17,48),(8,27,76)); lvl=5; h,r-ind=1,1
        [3,3]((8,27,76),(7,24,67),(12,41,115)); lvl=6; h,r-ind=1,1
        [3,3]((4,14,39),(7,24,67),(12,41,115)); lvl=6; h,r-ind=1,1
        [3,3]((5,17,48),(4,14,39),(12,41,115)); lvl=6; h,r-ind=1,1
        [3,3]((5,17,48),(8,27,76),(12,41,115)); lvl=6; h,r-ind=1,1
      [4,3]((3,10,28),(12,41,114),(7,24,67),(8,27,76)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((10,34,95),(12,41,114),(7,24,67)); lvl=6; h,r-ind=1,1
        [3,3]((8,27,76),(10,34,95),(7,24,67)); lvl=6; h,r-ind=1,1
        [3,3]((3,10,28),(8,27,76),(10,34,95)); lvl=6; h,r-ind=1,1
        [3,3]((3,10,28),(10,34,95),(12,41,114)); lvl=6; h,r-ind=1,1
      [5,3]((2,7,19),(3,11,30),(12,41,114),(4,14,39),(7,24,67)); lvl=5; h,r-ind=1,1
        [3,3]((13,45,125),(7,24,67),(4,14,39)); lvl=6; h,r-ind=1,1
        [4,3]((15,52,144),(13,45,125),(6,21,58),(4,14,39)); lvl=6; h,r-ind=1,1
          [3,3]((6,21,58),(4,14,39),(19,66,183)); lvl=7; h,r-ind=1,1
          [3,3]((13,45,125),(4,14,39),(19,66,183)); lvl=7; h,r-ind=1,1
          [3,3]((15,52,144),(13,45,125),(19,66,183)); lvl=7; h,r-ind=1,1
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            [3,3]((15,52,144),(6,21,58),(19,66,183)); lvl=7; h,r-ind=1,1
          [3,3]((6,21,58),(3,11,30),(4,14,39)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,19),(6,21,58),(3,11,30)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,19),(15,52,144),(6,21,58)); lvl=6; h,r-ind=1,1
          [4,3]((9,31,86),(15,52,144),(13,45,125),(7,24,67)); lvl=6; h,r-ind=1,1
            [3,3]((15,52,144),(13,45,125),(22,76,211)); lvl=7; h,r-ind=1,1
            [3,3]((7,24,67),(13,45,125),(22,76,211)); lvl=7; h,r-ind=1,1
            [3,3]((9,31,86),(7,24,67),(22,76,211)); lvl=7; h,r-ind=1,1
            [3,3]((9,31,86),(15,52,144),(22,76,211)); lvl=7; h,r-ind=1,1
          [3,3]((9,31,86),(12,41,114),(7,24,67)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,19),(9,31,86),(12,41,114)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,19),(9,31,86),(15,52,144)); lvl=6; h,r-ind=1,1
      [3,3]((4,15,40),(2,7,19),(3,11,30)); lvl=4; h,r-ind=1,1
      [5,3]((2,5,15),(4,13,36),(3,10,28),(1,3,9),(9,30,85)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,28),(4,13,37),(9,30,85)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,9),(4,13,37),(9,30,85)); lvl=5; h,r-ind=1,1
        [4,3]((3,10,28),(9,29,82),(10,32,91),(4,13,37)); lvl=5; h,r-ind=1,1
          [3,3]((10,32,91),(9,29,82),(13,42,119)); lvl=6; h,r-ind=1,1
          [3,3]((3,10,28),(9,29,82),(13,42,119)); lvl=6; h,r-ind=1,1
          [3,3]((4,13,37),(3,10,28),(13,42,119)); lvl=6; h,r-ind=1,1
          [3,3]((4,13,37),(10,32,91),(13,42,119)); lvl=6; h,r-ind=1,1
        [4,3]((7,22,63),(1,3,9),(10,32,91),(4,13,37)); lvl=5; h,r-ind=1,1
          [3,3]((11,35,100),(4,13,37),(1,3,9)); lvl=6; h,r-ind=1,1
          [3,3]((7,22,63),(11,35,100),(1,3,9)); lvl=6; h,r-ind=1,1
          [3,3]((10,32,91),(11,35,100),(4,13,37)); lvl=6; h,r-ind=1,1
          [3,3]((7,22,63),(10,32,91),(11,35,100)); lvl=6; h,r-ind=1,1
        [4,3]((2,5,15),(7,22,63),(2,6,17),(1,3,9)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((3,9,26),(2,6,17),(7,22,63)); lvl=6; h,r-ind=1,1
          [3,3]((3,9,26),(1,3,9),(7,22,63)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,15),(3,9,26),(1,3,9)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,15),(3,9,26),(2,6,17)); lvl=6; h,r-ind=1,1
        [4,3]((4,13,36),(5,16,45),(3,10,28),(9,29,82)); lvl=5; h,r-ind=1,1
          [3,3]((5,16,45),(8,26,73),(9,29,82)); lvl=6; h,r-ind=1,1
          [3,3]((3,10,28),(8,26,73),(9,29,82)); lvl=6; h,r-ind=1,1
          [3,3]((4,13,36),(5,16,45),(8,26,73)); lvl=6; h,r-ind=1,1
          [3,3]((3,10,28),(4,13,36),(8,26,73)); lvl=6; h,r-ind=1,1
        [5,3]((7,22,63),(5,16,45),(2,6,17),(9,29,82),(10,32,91)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,17),(7,22,63),(6,19,54)); lvl=6; h,r-ind=1,1
          [3,3]((10,32,91),(7,22,63),(6,19,54)); lvl=6; h,r-ind=1,1
          [3,3]((9,29,82),(10,32,91),(6,19,54)); lvl=6; h,r-ind=1,1
          [3,3]((5,16,45),(2,6,17),(6,19,54)); lvl=6; h,r-ind=1,1
          [3,3]((5,16,45),(9,29,82),(6,19,54)); lvl=6; h,r-ind=1,1
        [3,3]((4,13,36),(5,16,45),(2,6,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,19),(4,13,36),(3,10,28)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,30),(2,7,20),(5,17,48)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,9),(2,7,21),(3,10,31)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,9),(1,3,10),(3,10,31),(3,10,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,31),(3,10,32),(4,13,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,10),(3,10,32),(4,13,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(3,10,31),(4,13,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,10),(1,3,9),(4,13,41)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,15),(1,3,9),(1,3,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,11),(1,3,10),(2,7,24)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,8),(2,5,15),(1,2,7),(1,3,11),(1,3,10)); lvl=2; h,r-ind=1,1
    [4,3]((4,11,38),(2,5,17),(2,5,16),(1,3,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,27),(2,5,16),(2,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,38),(3,8,27),(2,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,10),(4,11,38),(3,8,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,10),(3,8,27),(2,5,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,15),(2,5,16),(1,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,11),(4,11,38),(1,3,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,7),(2,5,17),(4,9,32),(2,5,16)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,17),(4,9,32),(3,7,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(4,9,32),(3,7,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,16),(2,5,17),(3,7,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(2,5,16),(3,7,24)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,15),(1,2,7),(2,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,8),(1,2,7),(4,9,32)); lvl=3; h,r-ind=1,1
    [5,3]((1,2,8),(1,3,11),(4,11,38),(2,5,17),(4,9,32)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,17),(3,8,28),(5,13,46),(4,10,35)); lvl=4; h,r-ind=1,1
        [3,3]((7,18,63),(5,13,46),(3,8,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,17),(7,18,63),(3,8,28)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,35),(7,18,63),(5,13,46)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,17),(4,10,35),(7,18,63)); lvl=5; h,r-ind=1,1
      [4,3]((5,12,43),(2,5,18),(5,13,46),(4,10,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,18),(5,13,46),(6,15,53)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,35),(5,13,46),(6,15,53)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,43),(2,5,18),(6,15,53)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,35),(5,12,43),(6,15,53)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,8),(5,12,43),(3,7,25)); lvl=4; h,r-ind=1,1
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      [3,3]((1,2,8),(5,12,43),(2,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,11),(2,5,18),(5,13,46)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(1,3,11),(2,5,18)); lvl=4; h,r-ind=1,1
      [4,3]((5,12,43),(3,7,25),(2,5,17),(4,10,35)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,25),(2,5,17),(7,17,60)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,35),(2,5,17),(7,17,60)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,43),(4,10,35),(7,17,60)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,43),(3,7,25),(7,17,60)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,25),(4,9,32),(2,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(3,7,25),(4,9,32)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,17),(4,11,38),(3,8,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,11),(3,8,28),(5,13,46)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,38),(1,3,11),(3,8,28)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,8),(2,5,20),(1,3,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,8),(2,3,12),(1,2,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,5,15),(2,3,12),(1,2,7)); lvl=2; h,r-ind=1,1
    [5,3]((2,5,15),(1,2,6),(1,2,7),(6,10,35),(3,5,17)); lvl=3; h,r-ind=1,1
      [4,3]((2,4,13),(6,11,37),(5,9,30),(1,2,6)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,37),(7,13,43),(5,9,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(7,13,43),(5,9,30)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,13),(6,11,37),(7,13,43)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(2,4,13),(7,13,43)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,17),(5,9,30),(1,2,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,15),(2,4,13),(1,2,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(2,4,13),(6,11,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,15),(1,2,7),(2,4,13)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,17),(4,7,24),(6,11,37),(5,9,30)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,24),(6,11,37),(9,16,54)); lvl=5; h,r-ind=1,1
        [3,3]((5,9,30),(6,11,37),(9,16,54)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,17),(4,7,24),(9,16,54)); lvl=5; h,r-ind=1,1
        [3,3]((5,9,30),(3,5,17),(9,16,54)); lvl=5; h,r-ind=1,1
      [3,3]((6,10,35),(3,5,17),(4,7,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(6,10,35),(4,7,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(4,7,24),(6,11,37)); lvl=4; h,r-ind=1,1
    [5,3]((1,1,4),(2,3,11),(2,3,10),(6,10,35),(3,5,17)); lvl=3; h,r-ind=1,1
      [4,3]((7,11,38),(5,8,28),(9,14,49),(3,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((9,14,49),(5,8,28),(12,19,66)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,17),(5,8,28),(12,19,66)); lvl=5; h,r-ind=1,1
        [3,3]((7,11,38),(9,14,49),(12,19,66)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,17),(7,11,38),(12,19,66)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,10),(7,11,38),(3,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,35),(5,8,28),(3,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,11),(6,10,35),(5,8,28)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,11),(6,9,32),(5,8,28),(9,14,49)); lvl=4; h,r-ind=1,1
        [3,3]((11,17,60),(9,14,49),(6,9,32)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,11),(11,17,60),(6,9,32)); lvl=5; h,r-ind=1,1
        [3,3]((5,8,28),(11,17,60),(9,14,49)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,11),(5,8,28),(11,17,60)); lvl=5; h,r-ind=1,1
      [5,3]((1,1,4),(2,3,10),(7,11,38),(6,9,32),(9,14,49)); lvl=4; h,r-ind=1,1
        [3,3]((7,11,38),(4,6,21),(9,14,49)); lvl=5; h,r-ind=1,1
        [3,3]((6,9,32),(4,6,21),(9,14,49)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(6,9,32),(4,6,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(1,1,4),(4,6,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(7,11,38),(4,6,21)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,11),(1,1,4),(6,9,32)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,6),(2,3,9),(2,3,10),(3,5,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,16),(2,3,9),(2,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,17),(3,5,16),(2,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(3,5,17),(3,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(3,5,16),(2,3,9)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,4),(2,3,9),(2,3,10)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,9),(1,1,3),(4,5,17),(2,3,10)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,13),(4,5,17),(1,1,3)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,9),(3,4,13),(1,1,3)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,13),(2,3,10),(4,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,9),(3,4,13),(2,3,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,4),(4,5,17),(2,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(1,1,3),(4,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(1,0,0),(1,1,3)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,12),(2,3,11),(1,2,7),(6,10,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,11),(6,10,35),(3,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(6,10,35),(3,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,12),(2,3,11),(3,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(2,3,12),(3,5,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,4),(2,3,12),(2,3,11)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,15),(1,5,10),(2,10,25),(2,5,10)); lvl=2; h,r-ind=25,5
    [4,3]((2,7,14),(2,7,17),(1,5,10),(2,10,23)); lvl=3; h,r-ind=9,3
      [4,3]((4,17,40),(1,4,9),(1,5,11),(2,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,41),(1,5,11),(1,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,21),(4,18,41),(1,4,9)); lvl=5; h,r-ind=1,1
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      [3,3]((2,9,21),(4,17,40),(1,4,9)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,21),(4,18,41),(2,10,23),(1,5,11)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,10,23),(1,5,11),(3,14,32)); lvl=6; h,r-ind=1,1
        [3,3]((4,18,41),(1,5,11),(3,14,32)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,21),(4,18,41),(3,14,32)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,21),(2,10,23),(3,14,32)); lvl=6; h,r-ind=1,1
    [3,3]((2,7,17),(4,17,40),(1,4,9)); lvl=4; h,r-ind=3,3; optimized-h
    [3,3]((4,14,31),(2,7,17),(1,4,9)); lvl=4; h,r-ind=3,3; optimized-h
    [4,3]((1,4,9),(1,4,8),(1,5,11),(1,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(1,5,10),(2,9,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,10),(2,9,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,9),(1,5,11),(2,9,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,8),(1,4,9),(2,9,19)); lvl=5; h,r-ind=1,1
    [4,3]((2,7,14),(4,14,31),(1,4,9),(1,4,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(2,7,15),(4,14,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,9),(4,15,32),(2,7,15)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,8),(2,7,14),(4,15,32),(2,7,15)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,23),(2,7,14),(2,7,15)); lvl=6; h,r-ind=1,1
        [3,3]((4,15,32),(3,11,23),(2,7,15)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,8),(4,15,32),(3,11,23)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,8),(3,11,23),(2,7,14)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,8),(1,4,9),(4,15,32)); lvl=5; h,r-ind=1,1
  [4,3]((1,5,12),(2,7,18),(2,7,17),(2,10,23)); lvl=3; h,r-ind=3,1
    [3,3]((2,7,17),(2,7,18),(1,4,10)); lvl=4; h,r-ind=1,1
    [3,3]((4,17,40),(2,7,17),(1,4,10)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((1,5,12),(2,10,23),(4,17,40),(1,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,10),(2,9,21),(4,18,43)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,12),(2,10,23),(2,9,21),(4,18,43)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,10,23),(3,14,33),(2,9,21)); lvl=6; h,r-ind=1,1
        [3,3]((4,18,43),(3,14,33),(2,9,21)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,12),(2,10,23),(3,14,33)); lvl=6; h,r-ind=1,1
        [3,3]((4,18,43),(1,5,12),(3,14,33)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,10),(1,5,12),(4,18,43)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,10),(4,17,40),(2,9,21)); lvl=5; h,r-ind=1,1
  [4,3]((1,5,12),(2,10,25),(4,15,40),(2,7,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,29),(2,8,21),(4,15,40)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,10),(3,11,29),(2,8,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,10),(4,17,44),(2,8,21)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,12),(1,4,10),(2,10,25),(4,17,44)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,10),(2,9,23),(4,17,44)); lvl=5; h,r-ind=1,1
      [3,3]((4,18,45),(1,4,10),(2,9,23)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,12),(4,18,45),(2,10,25),(2,9,23)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,18,45),(3,14,35),(2,9,23)); lvl=6; h,r-ind=1,1
        [3,3]((2,10,25),(3,14,35),(2,9,23)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,12),(4,18,45),(3,14,35)); lvl=6; h,r-ind=1,1
        [3,3]((2,10,25),(1,5,12),(3,14,35)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,12),(4,18,45),(1,4,10)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,10),(2,7,18),(3,11,29)); lvl=4; h,r-ind=1,1
  [4,3]((2,5,15),(4,15,40),(2,7,18),(1,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,19),(3,11,29),(4,15,40)); lvl=4; h,r-ind=1,1
    [5,3]((2,7,19),(3,10,27),(9,30,80),(5,17,45),(3,11,29)); lvl=4; h,r-ind=1,1
      [4,3]((8,27,72),(12,41,110),(7,24,64),(3,10,27)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((7,24,64),(12,41,110),(10,34,91)); lvl=6; h,r-ind=1,1
        [3,3]((3,10,27),(12,41,110),(10,34,91)); lvl=6; h,r-ind=1,1
        [3,3]((8,27,72),(7,24,64),(10,34,91)); lvl=6; h,r-ind=1,1
        [3,3]((3,10,27),(8,27,72),(10,34,91)); lvl=6; h,r-ind=1,1
      [3,3]((9,30,80),(8,27,72),(3,10,27)); lvl=5; h,r-ind=1,1
      [3,3]((5,17,45),(9,30,80),(8,27,72)); lvl=5; h,r-ind=1,1
      [4,3]((4,14,37),(5,17,45),(8,27,72),(7,24,64)); lvl=5; h,r-ind=1,1
        [3,3]((12,41,109),(5,17,45),(8,27,72)); lvl=6; h,r-ind=1,1
        [3,3]((7,24,64),(12,41,109),(8,27,72)); lvl=6; h,r-ind=1,1
        [3,3]((4,14,37),(7,24,64),(12,41,109)); lvl=6; h,r-ind=1,1
        [3,3]((4,14,37),(12,41,109),(5,17,45)); lvl=6; h,r-ind=1,1
      [3,3]((2,7,19),(12,41,110),(3,10,27)); lvl=5; h,r-ind=1,1
      [5,3]((2,7,19),(3,11,29),(4,14,37),(12,41,110),(7,24,64)); lvl=5; h,r-ind=1,1
        [4,3]((15,52,139),(13,45,120),(7,24,64),(9,31,83)); lvl=6; h,r-ind=1,1
          [3,3]((7,24,64),(13,45,120),(22,76,203)); lvl=7; h,r-ind=1,1
          [3,3]((15,52,139),(13,45,120),(22,76,203)); lvl=7; h,r-ind=1,1
          [3,3]((9,31,83),(15,52,139),(22,76,203)); lvl=7; h,r-ind=1,1
          [3,3]((9,31,83),(7,24,64),(22,76,203)); lvl=7; h,r-ind=1,1
        [3,3]((12,41,110),(7,24,64),(9,31,83)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,19),(12,41,110),(9,31,83)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,19),(15,52,139),(9,31,83)); lvl=6; h,r-ind=1,1
        [3,3]((13,45,120),(4,14,37),(7,24,64)); lvl=6; h,r-ind=1,1
        [4,3]((6,21,56),(15,52,139),(13,45,120),(4,14,37)); lvl=6; h,r-ind=1,1
          [3,3]((19,66,176),(13,45,120),(15,52,139)); lvl=7; h,r-ind=1,1
          [3,3]((6,21,56),(19,66,176),(15,52,139)); lvl=7; h,r-ind=1,1
          [3,3]((4,14,37),(19,66,176),(13,45,120)); lvl=7; h,r-ind=1,1
          [3,3]((6,21,56),(4,14,37),(19,66,176)); lvl=7; h,r-ind=1,1
        [3,3]((2,7,19),(6,21,56),(15,52,139)); lvl=6; h,r-ind=1,1
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        [3,3]((3,11,29),(2,7,19),(6,21,56)); lvl=6; h,r-ind=1,1
        [3,3]((3,11,29),(6,21,56),(4,14,37)); lvl=6; h,r-ind=1,1
    [3,3]((5,17,45),(2,7,18),(3,11,29)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,3,8),(9,30,80),(5,17,45),(2,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((9,30,80),(6,20,53),(5,17,45)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,18),(6,20,53),(5,17,45)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,8),(9,30,80),(6,20,53)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,18),(1,3,8),(6,20,53)); lvl=5; h,r-ind=1,1
    [3,3]((4,13,36),(2,7,19),(3,10,27)); lvl=4; h,r-ind=1,1
    [5,3]((1,3,8),(2,5,15),(4,13,36),(3,10,27),(9,30,80)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,8),(2,6,17),(7,22,60),(2,5,15)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((3,9,25),(7,22,60),(2,6,17)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,15),(3,9,25),(2,6,17)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,8),(2,5,15),(3,9,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,8),(3,9,25),(7,22,60)); lvl=6; h,r-ind=1,1
      [5,3]((2,6,17),(5,16,44),(9,29,79),(10,32,87),(7,22,60)); lvl=5; h,r-ind=1,1
        [3,3]((9,29,79),(6,19,52),(5,16,44)); lvl=6; h,r-ind=1,1
        [3,3]((2,6,17),(6,19,52),(5,16,44)); lvl=6; h,r-ind=1,1
        [3,3]((9,29,79),(6,19,52),(10,32,87)); lvl=6; h,r-ind=1,1
        [3,3]((7,22,60),(6,19,52),(10,32,87)); lvl=6; h,r-ind=1,1
        [3,3]((2,6,17),(7,22,60),(6,19,52)); lvl=6; h,r-ind=1,1
      [3,3]((4,13,36),(2,6,17),(5,16,44)); lvl=5; h,r-ind=1,1
      [4,3]((4,13,36),(5,16,44),(9,29,79),(3,10,27)); lvl=5; h,r-ind=1,1
        [3,3]((8,26,71),(9,29,79),(5,16,44)); lvl=6; h,r-ind=1,1
        [3,3]((4,13,36),(8,26,71),(5,16,44)); lvl=6; h,r-ind=1,1
        [3,3]((3,10,27),(4,13,36),(8,26,71)); lvl=6; h,r-ind=1,1
        [3,3]((3,10,27),(8,26,71),(9,29,79)); lvl=6; h,r-ind=1,1
      [4,3]((4,13,35),(9,29,79),(10,32,87),(3,10,27)); lvl=5; h,r-ind=1,1
        [3,3]((9,29,79),(10,32,87),(13,42,114)); lvl=6; h,r-ind=1,1
        [3,3]((4,13,35),(10,32,87),(13,42,114)); lvl=6; h,r-ind=1,1
        [3,3]((3,10,27),(4,13,35),(13,42,114)); lvl=6; h,r-ind=1,1
        [3,3]((3,10,27),(9,29,79),(13,42,114)); lvl=6; h,r-ind=1,1
      [3,3]((9,30,80),(4,13,35),(3,10,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,8),(9,30,80),(4,13,35)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,8),(4,13,35),(10,32,87),(7,22,60)); lvl=5; h,r-ind=1,1
        [3,3]((4,13,35),(10,32,87),(11,35,95)); lvl=6; h,r-ind=1,1
        [3,3]((7,22,60),(10,32,87),(11,35,95)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,8),(4,13,35),(11,35,95)); lvl=6; h,r-ind=1,1
        [3,3]((7,22,60),(1,3,8),(11,35,95)); lvl=6; h,r-ind=1,1
  [4,3]((1,3,6),(2,7,14),(2,6,15),(2,7,17)); lvl=3; h,r-ind=3,1
    [4,3]((1,3,6),(1,3,7),(2,7,14),(4,14,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(2,7,15),(4,14,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,7),(2,7,15),(4,13,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,6),(4,13,28)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,6),(2,7,14),(2,7,15),(4,13,28)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,21),(2,7,14),(2,7,15)); lvl=6; h,r-ind=1,1
        [3,3]((4,13,28),(3,10,21),(2,7,15)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,6),(4,13,28),(3,10,21)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,6),(3,10,21),(2,7,14)); lvl=6; h,r-ind=1,1
    [3,3]((1,3,7),(2,7,17),(4,14,31)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((1,3,7),(2,6,15),(2,7,17)); lvl=4; h,r-ind=1,1
  [4,3]((2,7,18),(1,3,8),(2,6,15),(2,7,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(3,10,25),(2,6,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,17),(3,10,25),(2,6,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,18),(1,3,8),(3,10,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,17),(2,7,18),(3,10,25)); lvl=4; h,r-ind=1,1
  [4,3]((2,5,15),(4,10,25),(1,3,8),(2,6,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,8),(2,6,15),(5,14,36),(9,25,65)); lvl=4; h,r-ind=1,1
      [3,3]((6,17,44),(2,6,15),(5,14,36)); lvl=5; h,r-ind=1,1
      [3,3]((9,25,65),(6,17,44),(5,14,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,8),(9,25,65),(6,17,44)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,8),(6,17,44),(2,6,15)); lvl=5; h,r-ind=1,1
    [5,3]((2,5,13),(3,8,21),(3,8,20),(5,14,36),(9,25,65)); lvl=4; h,r-ind=1,1
      [3,3]((8,22,57),(5,14,36),(9,25,65)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,21),(8,22,57),(9,25,65)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,13),(3,8,21),(12,32,83)); lvl=5; h,r-ind=1,1
      [4,3]((4,11,28),(8,22,57),(7,19,49),(5,14,36)); lvl=5; h,r-ind=1,1
        [3,3]((7,19,49),(8,22,57),(12,33,85)); lvl=6; h,r-ind=1,1
        [3,3]((5,14,36),(8,22,57),(12,33,85)); lvl=6; h,r-ind=1,1
        [3,3]((4,11,28),(7,19,49),(12,33,85)); lvl=6; h,r-ind=1,1
        [3,3]((5,14,36),(4,11,28),(12,33,85)); lvl=6; h,r-ind=1,1
      [5,3]((2,5,13),(12,32,83),(3,8,20),(4,11,28),(7,19,49)); lvl=5; h,r-ind=1,1
        [3,3]((13,35,90),(4,11,28),(7,19,49)); lvl=6; h,r-ind=1,1
        [4,3]((15,40,103),(9,24,62),(13,35,90),(7,19,49)); lvl=6; h,r-ind=1,1
          [3,3]((22,59,152),(7,19,49),(9,24,62)); lvl=7; h,r-ind=1,1
          [3,3]((15,40,103),(22,59,152),(9,24,62)); lvl=7; h,r-ind=1,1
          [3,3]((13,35,90),(22,59,152),(7,19,49)); lvl=7; h,r-ind=1,1
          [3,3]((15,40,103),(13,35,90),(22,59,152)); lvl=7; h,r-ind=1,1
        [3,3]((12,32,83),(9,24,62),(7,19,49)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,13),(12,32,83),(9,24,62)); lvl=6; h,r-ind=1,1
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          [3,3]((2,5,13),(15,40,103),(9,24,62)); lvl=6; h,r-ind=1,1
          [4,3]((6,16,41),(15,40,103),(13,35,90),(4,11,28)); lvl=6; h,r-ind=1,1
            [3,3]((19,51,131),(15,40,103),(13,35,90)); lvl=7; h,r-ind=1,1
            [3,3]((4,11,28),(19,51,131),(13,35,90)); lvl=7; h,r-ind=1,1
            [3,3]((6,16,41),(4,11,28),(19,51,131)); lvl=7; h,r-ind=1,1
            [3,3]((6,16,41),(19,51,131),(15,40,103)); lvl=7; h,r-ind=1,1
          [3,3]((6,16,41),(4,11,28),(3,8,20)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,13),(6,16,41),(3,8,20)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,13),(6,16,41),(15,40,103)); lvl=6; h,r-ind=1,1
        [4,3]((3,8,21),(12,32,83),(8,22,57),(7,19,49)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((12,32,83),(7,19,49),(10,27,70)); lvl=6; h,r-ind=1,1
          [3,3]((8,22,57),(7,19,49),(10,27,70)); lvl=6; h,r-ind=1,1
          [3,3]((3,8,21),(8,22,57),(10,27,70)); lvl=6; h,r-ind=1,1
          [3,3]((3,8,21),(12,32,83),(10,27,70)); lvl=6; h,r-ind=1,1
      [3,3]((2,5,13),(4,10,25),(3,8,20)); lvl=4; h,r-ind=1,1
      [5,3]((2,5,15),(4,10,27),(3,8,21),(1,3,8),(9,25,65)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,29),(3,8,21),(9,25,65)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,29),(1,3,8),(9,25,65)); lvl=5; h,r-ind=1,1
        [4,3]((10,27,72),(7,19,51),(4,11,29),(1,3,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(7,19,51),(11,30,80)); lvl=6; h,r-ind=1,1
          [3,3]((10,27,72),(7,19,51),(11,30,80)); lvl=6; h,r-ind=1,1
          [3,3]((4,11,29),(10,27,72),(11,30,80)); lvl=6; h,r-ind=1,1
          [3,3]((4,11,29),(1,3,8),(11,30,80)); lvl=6; h,r-ind=1,1
        [4,3]((2,5,15),(2,5,14),(7,19,51),(1,3,8)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((2,5,14),(7,19,51),(3,8,22)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,8),(7,19,51),(3,8,22)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,15),(2,5,14),(3,8,22)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,8),(2,5,15),(3,8,22)); lvl=6; h,r-ind=1,1
        [4,3]((10,27,72),(9,24,64),(4,11,29),(3,8,21)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,21),(9,24,64),(13,35,93)); lvl=6; h,r-ind=1,1
          [3,3]((10,27,72),(9,24,64),(13,35,93)); lvl=6; h,r-ind=1,1
          [3,3]((4,11,29),(10,27,72),(13,35,93)); lvl=6; h,r-ind=1,1
          [3,3]((4,11,29),(3,8,21),(13,35,93)); lvl=6; h,r-ind=1,1
        [4,3]((5,13,35),(4,10,27),(9,24,64),(3,8,21)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,21),(9,24,64),(8,21,56)); lvl=6; h,r-ind=1,1
          [3,3]((5,13,35),(9,24,64),(8,21,56)); lvl=6; h,r-ind=1,1
          [3,3]((5,13,35),(4,10,27),(8,21,56)); lvl=6; h,r-ind=1,1
          [3,3]((4,10,27),(3,8,21),(8,21,56)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,14),(5,13,35),(4,10,27)); lvl=5; h,r-ind=1,1
        [5,3]((2,5,14),(5,13,35),(10,27,72),(7,19,51),(9,24,64)); lvl=5; h,r-ind=1,1
          [3,3]((6,16,43),(10,27,72),(9,24,64)); lvl=6; h,r-ind=1,1
          [3,3]((5,13,35),(6,16,43),(9,24,64)); lvl=6; h,r-ind=1,1
          [3,3]((5,13,35),(2,5,14),(6,16,43)); lvl=6; h,r-ind=1,1
          [3,3]((7,19,51),(6,16,43),(10,27,72)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,14),(7,19,51),(6,16,43)); lvl=6; h,r-ind=1,1
      [3,3]((2,5,13),(4,10,27),(3,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,20),(2,6,15),(5,14,36)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,5,10),(1,3,6),(4,10,25),(2,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,20),(2,6,15),(1,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(3,8,20),(1,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(4,10,23),(1,3,7)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,10),(4,10,23),(1,3,6),(1,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,24),(1,3,7),(1,3,6)); lvl=5; h,r-ind=1,1
        [4,3]((2,5,10),(4,11,24),(2,5,11),(1,3,6)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,11),(3,8,17),(4,11,24)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,6),(3,8,17),(4,11,24)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,10),(2,5,11),(3,8,17)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,6),(2,5,10),(3,8,17)); lvl=6; h,r-ind=1,1
        [3,3]((4,11,24),(2,5,11),(1,3,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,11),(4,10,23),(1,3,7)); lvl=5; h,r-ind=1,1
      [3,3]((4,10,25),(2,5,12),(3,8,20)); lvl=4; h,r-ind=1,1
[3,3]((1,0,0),(2,5,15),(2,5,10)); lvl=2; h,r-ind=25,5
  [3,3]((1,2,5),(2,3,9),(1,2,6)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,15),(4,10,25),(1,2,5),(1,2,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,13),(1,2,5),(4,10,25)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,13),(4,10,27),(5,11,30),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(5,11,30),(3,7,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,5),(6,14,37),(3,7,19)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,13),(4,10,27),(6,14,37),(3,7,19)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,32),(6,14,37),(3,7,19)); lvl=6; h,r-ind=1,1
        [3,3]((4,10,27),(5,12,32),(3,7,19)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,13),(4,10,27),(5,12,32)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,13),(5,12,32),(6,14,37)); lvl=6; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,13),(6,14,37)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,6),(5,11,30),(1,2,5)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,15),(4,10,27),(1,2,6),(5,11,30)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,2,6),(7,16,45),(3,7,19),(5,11,30)); lvl=5; h,r-ind=1,3
        [3,3]((3,7,19),(4,9,25),(7,16,45)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,6),(4,9,25),(7,16,45)); lvl=6; h,r-ind=1,1
        [3,3]((5,11,30),(1,2,6),(4,9,25)); lvl=6; h,r-ind=1,1
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          [3,3]((5,11,30),(3,7,19),(4,9,25)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,14),(7,16,45),(3,7,19)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,6),(2,5,15),(2,5,14),(7,16,45)); lvl=5; h,r-ind=1,3
          [3,3]((3,7,20),(2,5,14),(2,5,15)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,6),(3,7,20),(2,5,15)); lvl=6; h,r-ind=1,1
          [3,3]((7,16,45),(3,7,20),(2,5,14)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,6),(7,16,45),(3,7,20)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,14),(3,7,19),(4,10,27)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,4),(2,5,10),(4,10,25),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,12),(4,10,25)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,5),(5,11,25),(4,10,23),(2,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(3,7,16),(5,11,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(6,14,33),(3,7,16)); lvl=5; h,r-ind=1,1
        [4,3]((2,5,12),(6,14,33),(4,10,23),(3,7,16)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,7,16),(6,14,33),(5,12,28)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,12),(6,14,33),(5,12,28)); lvl=6; h,r-ind=1,1
          [3,3]((4,10,23),(3,7,16),(5,12,28)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,12),(4,10,23),(5,12,28)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,12),(1,2,5),(6,14,33)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(5,11,25)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,4),(5,11,25),(2,5,10),(4,10,23)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,7,16),(2,5,11),(4,10,23)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,16),(7,16,35),(2,5,11)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,4),(5,11,25),(3,7,16),(7,16,35)); lvl=5; h,r-ind=1,3
          [3,3]((5,11,25),(4,9,20),(3,7,16)); lvl=6; h,r-ind=1,1
          [3,3]((7,16,35),(4,9,20),(3,7,16)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,4),(7,16,35),(4,9,20)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,4),(5,11,25),(4,9,20)); lvl=6; h,r-ind=1,1
        [4,3]((1,2,4),(7,16,35),(2,5,11),(2,5,10)); lvl=5; h,r-ind=1,3
          [3,3]((7,16,35),(3,7,15),(2,5,11)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,10),(3,7,15),(2,5,11)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,4),(2,5,10),(3,7,15)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,4),(7,16,35),(3,7,15)); lvl=6; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,6),(1,2,5),(2,3,9)); lvl=3; h,r-ind=3,3
      [4,3]((1,1,2),(4,6,15),(1,2,5),(2,3,6)); lvl=4; h,r-ind=1,3
        [3,3]((2,3,7),(1,2,5),(4,6,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(2,3,7),(4,6,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,6),(2,3,7),(1,2,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(2,3,6),(2,3,7)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,3),(4,6,15),(2,3,9),(1,2,5)); lvl=4; h,r-ind=1,3
        [3,3]((2,3,8),(1,2,5),(4,6,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(2,3,8),(4,6,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,9),(2,3,8),(1,2,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(2,3,9),(2,3,8)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,2),(1,1,3),(4,6,15)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((1,1,2),(1,0,0),(1,1,3)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,6),(1,2,5)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,5,15),(1,5,10)); lvl=1; h,r-ind=5,5; optimized-h
[3,3]((1,5,20),(0,1,0),(1,5,15)); lvl=1; h,r-ind=5,5; optimized-h
[3,3]((0,1,0),(1,0,0),(1,5,10)); lvl=1; h,r-ind=10,20; optimized-h
[3,3]((1,5,20),(2,5,20),(1,5,15)); lvl=1; h,r-ind=25,5; alert-h-inc
  [5,3]((1,5,20),(2,10,35),(2,7,28),(2,7,27),(4,15,55)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,15),(2,8,29),(4,17,61)); lvl=3; h,r-ind=1,1
    [4,3]((2,10,35),(1,5,18),(1,4,15),(4,17,61)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,18),(1,4,15),(4,18,65)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,32),(1,4,15),(4,18,65)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,32),(4,17,61),(1,4,15)); lvl=4; h,r-ind=1,1
      [4,3]((2,10,35),(2,9,32),(1,5,18),(4,18,65)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,32),(4,18,65),(3,14,50)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,18),(4,18,65),(3,14,50)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,35),(1,5,18),(3,14,50)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,35),(2,9,32),(3,14,50)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,18),(2,10,37),(1,4,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,20),(1,4,16),(2,10,37),(1,4,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,16),(1,4,15),(3,13,50)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,19),(1,4,15),(3,13,50)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,19),(2,10,37),(1,4,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,20),(1,5,19),(1,4,16),(3,13,50)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,35),(3,13,50),(1,5,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,20),(2,9,35),(1,5,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,16),(1,5,20),(2,9,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,16),(2,9,35),(3,13,50)); lvl=5; h,r-ind=1,1
    [4,3]((1,4,15),(4,15,55),(3,11,41),(2,8,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,41),(4,15,55),(5,19,70)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,29),(4,15,55),(5,19,70)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,15),(2,8,29),(5,19,70)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,15),(3,11,41),(5,19,70)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,15),(2,7,27),(3,11,41)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,15),(2,7,28),(2,7,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,16),(1,4,15),(2,7,28)); lvl=3; h,r-ind=1,1
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    [5,3]((1,3,11),(2,7,25),(1,3,12),(2,7,27),(4,15,55)); lvl=2; h,r-ind=1,1
      [4,3]((4,15,55),(3,11,40),(2,7,26),(3,11,41)); lvl=3; h,r-ind=1,1
        [3,3]((3,11,40),(2,7,26),(6,22,81)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,41),(2,7,26),(6,22,81)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,55),(3,11,41),(6,22,81)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,55),(3,11,40),(6,22,81)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,27),(2,7,26),(3,11,41)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,12),(2,7,27),(2,7,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,11),(1,3,12),(2,7,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,25),(3,11,40),(2,7,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,11),(2,7,25),(2,7,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,11),(2,5,20),(1,3,12)); lvl=2; h,r-ind=1,1
    [5,3]((1,5,15),(2,7,24),(2,7,25),(2,10,35),(4,15,55)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,14),(2,7,25),(3,11,40)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,14),(2,8,29),(4,15,55),(3,11,40)); lvl=3; h,r-ind=1,1
        [3,3]((2,8,29),(4,15,55),(5,19,69)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,40),(4,15,55),(5,19,69)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,14),(2,8,29),(5,19,69)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,40),(1,4,14),(5,19,69)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,14),(2,8,29),(4,17,61)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,14),(2,10,35),(1,5,17),(4,17,61)); lvl=3; h,r-ind=1,1
        [4,3]((4,18,63),(2,9,32),(1,5,17),(2,10,35)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,49),(1,5,17),(2,10,35)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,32),(3,14,49),(2,10,35)); lvl=5; h,r-ind=1,1
          [3,3]((4,18,63),(3,14,49),(1,5,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,32),(4,18,63),(3,14,49)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,14),(4,18,63),(2,9,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,14),(2,9,32),(4,17,61)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,14),(4,18,63),(1,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,33),(1,4,14),(1,5,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,14),(2,7,24),(2,7,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,13),(1,4,14),(2,7,24)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,15),(2,10,33),(1,4,13),(1,4,14)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,14),(1,4,13),(3,13,43)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,15),(1,5,16),(1,4,13),(3,13,43)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,29),(1,5,16),(3,13,43)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,13),(2,9,29),(3,13,43)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,15),(2,9,29),(1,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,13),(1,5,15),(2,9,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,16),(1,4,14),(3,13,43)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,16),(2,10,33),(1,4,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,11),(2,7,24),(2,7,25)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,12),(2,7,28),(2,7,27)); lvl=2; h,r-ind=1,1
```

20.12 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,6,20)); lvl=0; h,r-ind=20,200
  [4,3]((1,0,0),(0,1,0),(1,6,10),(1,2,4)); lvl=1; h,r-ind=2,2
    [4,3]((0,1,0),(1,5,7),(1,6,10),(1,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,9),(1,6,10),(1,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,6),(2,12,15),(1,6,9),(1,5,7)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,7),(3,16,21),(1,6,8),(1,6,9)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,15),(1,6,8),(3,16,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(2,11,15),(3,16,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,9),(2,11,15),(1,6,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(1,6,9),(2,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(1,5,7),(3,16,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(3,16,21),(1,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,12,15),(1,6,8)); lvl=4; h,r-ind=1,1
      [4,3]((0,1,0),(1,5,5),(1,5,6),(2,12,15)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,12),(1,5,5),(1,5,6)); lvl=4; h,r-ind=1,1
        [4,3]((2,12,13),(1,6,7),(2,11,12),(1,5,6)); lvl=4; h,r-ind=1,1
          [3,3]((1,5,6),(1,6,7),(3,17,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,13),(1,6,7),(3,17,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,12),(2,12,13),(3,17,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,12),(1,5,6),(3,17,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(2,12,15),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,6,7),(2,12,15)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,12,13),(1,6,7)); lvl=4; h,r-ind=1,1
        [4,3]((0,1,0),(2,12,13),(2,11,12),(1,5,5)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,6),(2,12,13),(2,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(1,6,6),(2,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(1,6,6),(2,12,13)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(2,12,15),(1,6,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((0,1,0),(1,6,9),(1,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(0,1,0),(1,5,5)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,0,0),(1,4,4),(0,1,0)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((1,4,4),(1,3,4),(1,5,7),(1,4,6),(1,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,6),(1,3,4),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,4),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,5,5),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,5,7),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,7),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,5),(1,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,2),(1,4,4),(1,3,4)); lvl=2; h,r-ind=2,1
      [4,3]((1,2,2),(1,4,4),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,1
        [4,3]((1,4,4),(1,3,3),(1,3,4),(3,8,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,3,3),(3,8,10),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(1,3,3),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(1,4,4),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(3,8,10)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,2),(1,2,3),(1,3,3),(3,8,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,2,3),(2,5,6),(3,8,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(2,5,6),(3,8,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(1,2,3),(2,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(1,2,2),(2,5,6)); lvl=5; h,r-ind=1,1
      [4,3]((1,0,0),(1,2,2),(1,1,2),(1,2,3)); lvl=3; h,r-ind=1,1
        [4,3]((1,1,1),(3,4,6),(1,2,2),(1,2,3)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,2,2),(2,3,4),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,6),(2,3,4),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(3,4,6),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(1,2,2),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(3,4,6),(1,2,3)); lvl=4; h,r-ind=1,1
        [4,3]((1,0,0),(1,1,1),(1,1,2),(3,4,6)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,2,3),(1,1,1),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(1,1,2),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=5; h,r-ind=1,1
    [4,3]((1,4,7),(1,5,7),(1,4,6),(1,6,10)); lvl=2; h,r-ind=1,2
      [3,3]((1,4,6),(1,5,7),(1,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,10),(1,5,7),(1,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(1,4,6),(1,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,10),(1,4,7),(1,5,8)); lvl=3; h,r-ind=1,1
    [5,3]((1,2,4),(1,1,2),(1,3,4),(1,4,7),(1,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,4),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,3,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,1,2),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,4,6),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,4,6),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(1,4,7)); lvl=3; h,r-ind=1,1
  [5,3]((1,2,6),(1,6,14),(1,4,12),(1,6,10),(1,2,4)); lvl=1; h,r-ind=4,4
    [5,3]((1,4,9),(1,4,10),(1,2,5),(1,2,6),(1,3,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,8),(1,2,6),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(1,4,10),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(1,3,8),(1,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(1,2,5),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(1,3,7),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(1,3,8),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,10),(1,4,12),(1,3,9)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,5,13),(1,4,10),(1,4,12)); lvl=2; h,r-ind=2,2; optimized-h
    [5,3]((1,6,14),(1,5,13),(1,6,12),(1,4,9),(1,4,10)); lvl=2; h,r-ind=1,2
      [4,3]((1,4,9),(2,9,21),(2,10,23),(1,5,11)); lvl=3; h,r-ind=1,1
        [3,3]((2,9,21),(2,10,23),(3,14,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,11),(2,10,23),(3,14,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(2,9,21),(3,14,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,11),(1,4,9),(3,14,32)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,13),(1,6,12),(2,10,23),(1,5,11)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,24),(2,10,23),(1,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(2,11,24),(1,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,13),(1,6,12),(2,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,13),(2,11,24),(2,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(1,4,9),(1,5,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,10),(2,9,21),(1,5,12),(2,10,23)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,12),(2,10,23),(3,14,33)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,21),(2,10,23),(3,14,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(2,9,21),(3,14,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(1,5,12),(3,14,33)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,14),(1,6,13),(1,5,12),(2,10,23)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,12),(2,10,23),(2,11,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,13),(2,10,23),(2,11,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,14),(1,5,12),(2,11,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,13),(1,6,14),(2,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(1,4,10),(2,9,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,10),(1,5,13),(1,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,14),(1,5,13),(1,5,12)); lvl=3; h,r-ind=1,1
```

```
    [4,3]((1,4,8),(1,4,9),(1,2,5),(1,2,4)); lvl=2; h,r-ind=2,1
      [4,3]((1,3,6),(1,2,4),(1,3,7),(1,2,5)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,4),(1,2,5),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(1,2,5),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,2,4),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(1,3,6),(2,5,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,8),(1,3,6),(1,4,9),(1,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,6),(1,3,7),(2,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(1,3,7),(2,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(1,3,6),(2,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(1,4,8),(2,7,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,10),(1,6,12),(1,4,8),(1,4,9)); lvl=2; h,r-ind=2,2
      [3,3]((1,5,10),(1,4,8),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,12),(1,5,10),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,10),(1,4,8),(1,5,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,10),(1,6,11),(1,5,10),(1,5,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,11),(1,5,10),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(1,5,10),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(1,6,11),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(1,6,10),(2,11,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(1,6,11),(1,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(1,4,7),(1,2,4)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,6,10),(1,4,8),(1,4,7)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,6),(1,2,4)); lvl=1; h,r-ind=4,2; optimized-h
  [4,3]((1,3,10),(1,6,20),(1,2,6),(1,4,12)); lvl=1; h,r-ind=2,2
    [4,3]((1,5,16),(1,4,13),(1,3,9),(1,4,12)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,13),(1,3,9),(2,8,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,12),(1,3,9),(2,8,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,16),(1,4,13),(2,8,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,12),(1,5,16),(2,8,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,20),(1,5,16),(1,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,10),(1,6,20),(1,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(1,4,13),(1,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(1,3,10),(1,4,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,10),(1,2,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,6,20),(1,6,14),(1,4,12)); lvl=1; h,r-ind=12,6; optimized-h
  [3,3]((1,6,14),(0,1,0),(1,6,10)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,6,20),(1,6,14),(0,1,0)); lvl=1; h,r-ind=6,6; optimized-h
```

20.13 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,7,20)); lvl=0; h,r-ind=20,400
  [5,3]((2,13,26),(2,13,36),(2,7,19),(1,6,12),(1,6,17)); lvl=1; h,r-ind=5,1
    [4,3]((1,6,16),(1,5,13),(1,6,17),(2,9,25)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,13),(1,5,14),(2,9,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,43),(1,5,13),(1,5,14)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,16),(3,16,43),(1,6,17),(1,5,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,16,43),(2,11,30),(1,5,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,17),(2,11,30),(1,5,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,16),(1,6,17),(2,11,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,16),(3,16,43),(2,11,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,16),(3,16,43),(1,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,13),(1,4,11),(2,9,25)); lvl=2; h,r-ind=1,1
    [5,3]((4,21,52),(1,5,13),(1,4,10),(1,5,12),(1,4,11)); lvl=2; h,r-ind=1,1
      [5,3]((4,19,48),(3,14,35),(3,14,36),(1,4,10),(1,4,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,11),(2,9,23),(1,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,35),(2,9,23),(1,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,19,48),(3,14,35),(2,9,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,36),(1,4,11),(2,9,23)); lvl=4; h,r-ind=1,1
        [3,3]((4,19,48),(3,14,36),(2,9,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,13),(3,14,36),(1,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,12),(3,14,35),(1,4,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,13),(2,10,25),(4,19,48),(3,14,36)); lvl=3; h,r-ind=1,1
        [3,3]((2,10,25),(4,19,48),(5,24,61)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,36),(4,19,48),(5,24,61)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,13),(2,10,25),(5,24,61)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,36),(1,5,13),(5,24,61)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,13),(4,21,52),(2,10,25)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,12),(2,10,25),(4,19,48),(3,14,35)); lvl=3; h,r-ind=1,1
        [3,3]((2,10,25),(4,19,48),(5,24,60)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,35),(4,19,48),(5,24,60)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,12),(2,10,25),(5,24,60)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,35),(1,5,12),(5,24,60)); lvl=4; h,r-ind=1,1
      [3,3]((4,21,52),(1,5,12),(2,10,25)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,19),(1,4,10),(1,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,10),(2,9,21),(1,5,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,13),(1,6,12),(2,9,21),(1,5,12)); lvl=2; h,r-ind=1,1
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  [3,3]((1,5,12),(1,5,11),(2,9,21)); lvl=3; h,r-ind=1,1
  [3,3]((3,16,36),(1,5,12),(1,5,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,13),(3,16,36),(1,5,12)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,13),(3,16,36),(1,5,11),(1,6,12)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((3,16,36),(2,11,24),(1,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,12),(2,11,24),(1,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,13),(3,16,36),(2,11,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,12),(1,6,13),(2,11,24)); lvl=4; h,r-ind=1,1
[4,3]((2,12,29),(1,6,16),(4,21,52),(1,5,13)); lvl=2; h,r-ind=3,3; alert-r-inc
  [4,3]((1,6,15),(5,27,68),(1,5,13),(1,6,16)); lvl=3; h,r-ind=1,3
    [3,3]((2,11,28),(5,27,68),(1,5,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,16),(2,11,28),(1,5,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,15),(1,6,16),(2,11,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,15),(2,11,28),(5,27,68)); lvl=4; h,r-ind=1,1
  [4,3]((5,27,68),(4,21,52),(2,11,27),(1,5,13)); lvl=3; h,r-ind=1,3
    [3,3]((3,16,40),(2,11,27),(4,21,52)); lvl=4; h,r-ind=1,1
    [3,3]((3,16,40),(1,5,13),(4,21,52)); lvl=4; h,r-ind=1,1
    [3,3]((5,27,68),(3,16,40),(1,5,13)); lvl=4; h,r-ind=1,1
    [3,3]((5,27,68),(3,16,40),(2,11,27)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,15),(5,27,68),(2,11,27)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
  [3,3]((1,6,15),(2,12,29),(2,11,27)); lvl=3; h,r-ind=1,1
[4,3]((1,6,13),(2,12,29),(4,21,52),(1,5,12)); lvl=2; h,r-ind=3,3; alert-r-inc
  [4,3]((1,5,12),(5,27,65),(4,21,52),(2,11,27)); lvl=3; h,r-ind=1,3
    [3,3]((5,27,65),(3,16,39),(2,11,27)); lvl=4; h,r-ind=1,1
    [3,3]((4,21,52),(3,16,39),(2,11,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,12),(4,21,52),(3,16,39)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,12),(5,27,65),(3,16,39)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,14),(5,27,65),(2,11,27)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
  [3,3]((1,6,14),(2,12,29),(2,11,27)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,12),(1,6,13),(1,6,14),(5,27,65)); lvl=3; h,r-ind=1,3
    [3,3]((2,11,26),(1,6,14),(1,6,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,12),(2,11,26),(1,6,13)); lvl=4; h,r-ind=1,1
    [3,3]((5,27,65),(2,11,26),(1,6,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,12),(5,27,65),(2,11,26)); lvl=4; h,r-ind=1,1
[3,3]((2,13,26),(1,6,13),(1,6,12)); lvl=2; h,r-ind=1,1
[3,3]((1,6,16),(2,13,36),(1,6,17)); lvl=2; h,r-ind=1,1
[4,3]((2,13,31),(2,12,29),(1,6,16),(2,13,36)); lvl=2; h,r-ind=1,1
  [4,3]((4,26,67),(2,13,36),(1,6,15),(1,6,16)); lvl=3; h,r-ind=1,1
    [3,3]((5,31,81),(1,6,16),(1,6,15)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,34),(4,26,69),(5,31,81),(1,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,15),(3,19,50),(5,31,81)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,15),(6,38,99),(3,19,50)); lvl=5; h,r-ind=1,1
      [4,3]((2,13,34),(6,38,99),(4,26,69),(3,19,50)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,32,84),(6,38,99),(3,19,50)); lvl=6; h,r-ind=1,1
        [3,3]((4,26,69),(5,32,84),(3,19,50)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,34),(4,26,69),(5,32,84)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,34),(5,32,84),(6,38,99)); lvl=6; h,r-ind=1,1
      [3,3]((2,13,34),(1,6,15),(6,38,99)); lvl=5; h,r-ind=1,1
    [3,3]((2,13,34),(4,26,67),(1,6,15)); lvl=4; h,r-ind=1,1
    [4,3]((4,26,69),(5,31,81),(2,13,36),(1,6,16)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((3,19,50),(7,44,117),(1,6,16),(5,31,81)); lvl=5; h,r-ind=1,3
        [3,3]((4,25,66),(7,44,117),(1,6,16)); lvl=6; h,r-ind=1,1
        [3,3]((5,31,81),(4,25,66),(1,6,16)); lvl=6; h,r-ind=1,1
        [3,3]((3,19,50),(5,31,81),(4,25,66)); lvl=6; h,r-ind=1,1
        [3,3]((3,19,50),(4,25,66),(7,44,117)); lvl=6; h,r-ind=1,1
      [4,3]((7,44,117),(2,13,36),(2,13,35),(1,6,16)); lvl=5; h,r-ind=1,3
        [3,3]((2,13,35),(3,19,51),(2,13,36)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,16),(3,19,51),(2,13,36)); lvl=6; h,r-ind=1,1
        [3,3]((7,44,117),(1,6,16),(3,19,51)); lvl=6; h,r-ind=1,1
        [3,3]((7,44,117),(2,13,35),(3,19,51)); lvl=6; h,r-ind=1,1
      [3,3]((3,19,50),(7,44,117),(2,13,35)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((4,26,69),(3,19,50),(2,13,35)); lvl=5; h,r-ind=1,1
  [3,3]((2,13,31),(4,26,67),(1,6,15)); lvl=3; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,13,31),(1,6,15),(2,12,29)); lvl=3; h,r-ind=1,1
[4,3]((2,13,26),(1,6,13),(2,13,31),(2,12,29)); lvl=2; h,r-ind=1,1
  [4,3]((2,13,26),(4,26,57),(1,6,14),(1,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,28),(1,6,14),(4,26,57)); lvl=4; h,r-ind=1,1
    [4,3]((4,26,55),(2,13,28),(5,31,68),(1,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,28),(1,6,14),(6,38,83)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,41),(1,6,14),(6,38,83)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,41),(5,31,68),(1,6,14)); lvl=5; h,r-ind=1,1
      [4,3]((4,26,55),(3,19,41),(2,13,28),(6,38,83)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,19,41),(5,32,69),(6,38,83)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,28),(5,32,69),(6,38,83)); lvl=6; h,r-ind=1,1
        [3,3]((4,26,55),(3,19,41),(5,32,69)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,28),(4,26,55),(5,32,69)); lvl=6; h,r-ind=1,1
    [3,3]((5,31,68),(1,6,13),(1,6,14)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,26),(4,26,55),(5,31,68),(1,6,13)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,6,13),(7,44,94),(3,19,41),(5,31,68)); lvl=5; h,r-ind=1,3
        [3,3]((3,19,41),(4,25,54),(7,44,94)); lvl=6; h,r-ind=1,1
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          [3,3]((1,6,13),(4,25,54),(7,44,94)); lvl=6; h,r-ind=1,1
          [3,3]((5,31,68),(3,19,41),(4,25,54)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,13),(5,31,68),(4,25,54)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,27),(7,44,94),(3,19,41)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,6,13),(2,13,26),(2,13,27),(7,44,94)); lvl=5; h,r-ind=1,3
          [3,3]((3,19,40),(2,13,27),(2,13,26)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,13),(3,19,40),(2,13,26)); lvl=6; h,r-ind=1,1
          [3,3]((7,44,94),(3,19,40),(2,13,27)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,13),(7,44,94),(3,19,40)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,27),(3,19,41),(4,26,55)); lvl=5; h,r-ind=1,1
    [3,3]((2,13,31),(4,26,57),(1,6,14)); lvl=3; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,13,31),(2,12,29),(1,6,14)); lvl=3; h,r-ind=1,1
[3,3]((1,7,20),(2,13,36),(1,6,17)); lvl=1; h,r-ind=1,1
[4,3]((1,7,20),(2,13,26),(1,7,13),(2,13,36)); lvl=1; h,r-ind=1,1
  [4,3]((2,14,33),(2,13,31),(1,7,13),(2,13,26)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,13),(1,7,15),(2,13,26),(4,26,57)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,15),(1,7,14),(4,26,55),(2,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,20,42),(1,7,14),(4,26,55)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,28),(3,20,42),(4,26,55)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,28),(1,7,15),(3,20,42)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,15),(3,20,42),(1,7,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,15),(4,26,57),(2,13,28)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,13),(1,7,14),(2,13,26),(4,26,55)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,14),(2,13,27),(4,26,55)); lvl=5; h,r-ind=1,1
        [3,3]((4,27,54),(1,7,14),(2,13,27)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,13),(4,27,54),(2,13,26),(2,13,27)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,20,40),(2,13,26),(2,13,27)); lvl=6; h,r-ind=1,1
          [3,3]((4,27,54),(3,20,40),(2,13,27)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,13),(4,27,54),(3,20,40)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,13),(3,20,40),(2,13,26)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,13),(4,27,54),(1,7,14)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,16),(1,7,15),(2,13,31),(4,26,57)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,15),(2,13,29),(4,26,57)); lvl=4; h,r-ind=1,1
      [4,3]((5,34,76),(1,7,15),(4,26,59),(2,13,29)); lvl=4; h,r-ind=1,1
        [4,3]((3,20,45),(4,26,59),(2,13,29),(6,40,89)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,33,74),(4,26,59),(2,13,29)); lvl=6; h,r-ind=1,1
          [3,3]((6,40,89),(5,33,74),(2,13,29)); lvl=6; h,r-ind=1,1
          [3,3]((3,20,45),(6,40,89),(5,33,74)); lvl=6; h,r-ind=1,1
          [3,3]((3,20,45),(5,33,74),(4,26,59)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,15),(2,13,29),(6,40,89)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,15),(3,20,45),(6,40,89)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,15),(5,34,76),(3,20,45)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,16),(5,34,76),(1,7,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,16),(5,34,76),(2,13,31),(4,26,59)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,7,16),(7,47,107),(2,13,30),(2,13,31)); lvl=5; h,r-ind=1,3
          [3,3]((7,47,107),(3,20,46),(2,13,30)); lvl=6; h,r-ind=1,1
          [3,3]((2,13,31),(3,20,46),(2,13,30)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,16),(2,13,31),(3,20,46)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,16),(7,47,107),(3,20,46)); lvl=6; h,r-ind=1,1
        [3,3]((7,47,107),(3,20,45),(2,13,30)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,20,45),(4,26,59),(2,13,30)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,16),(7,47,107),(3,20,45),(5,34,76)); lvl=5; h,r-ind=1,3
          [3,3]((4,27,61),(3,20,45),(7,47,107)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,16),(4,27,61),(7,47,107)); lvl=6; h,r-ind=1,1
          [3,3]((5,34,76),(4,27,61),(3,20,45)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,16),(5,34,76),(4,27,61)); lvl=6; h,r-ind=1,1
    [3,3]((2,14,33),(1,7,16),(2,13,31)); lvl=3; h,r-ind=1,1
  [4,3]((1,7,20),(2,14,33),(2,13,36),(2,13,31)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,17),(1,7,18),(2,13,31),(4,26,67)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,18),(2,13,33),(4,26,67)); lvl=4; h,r-ind=1,1
      [4,3]((5,34,85),(1,7,18),(2,13,33),(4,26,65)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,18),(6,40,101),(2,13,33)); lvl=5; h,r-ind=1,1
        [4,3]((3,20,50),(4,26,65),(6,40,101),(2,13,33)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,26,65),(5,33,83),(2,13,33)); lvl=6; h,r-ind=1,1
          [3,3]((6,40,101),(5,33,83),(2,13,33)); lvl=6; h,r-ind=1,1
          [3,3]((3,20,50),(4,26,65),(5,33,83)); lvl=6; h,r-ind=1,1
          [3,3]((6,40,101),(3,20,50),(5,33,83)); lvl=6; h,r-ind=1,1
        [3,3]((3,20,50),(1,7,18),(6,40,101)); lvl=5; h,r-ind=1,1
        [3,3]((5,34,85),(3,20,50),(1,7,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,17),(5,34,85),(1,7,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,17),(5,34,85),(2,13,31),(4,26,65)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,13,32),(3,20,50),(7,47,116)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,7,17),(5,34,85),(3,20,50),(7,47,116)); lvl=5; h,r-ind=1,3
          [3,3]((5,34,85),(4,27,67),(3,20,50)); lvl=6; h,r-ind=1,1
          [3,3]((7,47,116),(4,27,67),(3,20,50)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,17),(7,47,116),(4,27,67)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,17),(5,34,85),(4,27,67)); lvl=6; h,r-ind=1,1
        [4,3]((1,7,17),(2,13,31),(2,13,32),(7,47,116)); lvl=5; h,r-ind=1,3
          [3,3]((2,13,31),(3,20,49),(2,13,32)); lvl=6; h,r-ind=1,1
          [3,3]((7,47,116),(3,20,49),(2,13,32)); lvl=6; h,r-ind=1,1
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            [3,3]((1,7,17),(7,47,116),(3,20,49)); lvl=6; h,r-ind=1,1
            [3,3]((1,7,17),(2,13,31),(3,20,49)); lvl=6; h,r-ind=1,1
          [3,3]((2,13,32),(4,26,65),(3,20,50)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,20),(1,7,18),(2,13,36),(4,26,67)); lvl=3; h,r-ind=1,1
        [4,3]((1,7,18),(1,7,19),(2,13,34),(4,26,69)); lvl=4; h,r-ind=1,1
          [3,3]((3,20,53),(2,13,34),(4,26,69)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,19),(3,20,53),(4,26,69)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,18),(3,20,53),(2,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,19),(1,7,18),(3,20,53)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,20),(1,7,19),(2,13,36),(4,26,69)); lvl=4; h,r-ind=1,1
          [3,3]((1,7,19),(2,13,35),(4,26,69)); lvl=5; h,r-ind=1,1
          [3,3]((4,27,74),(1,7,19),(2,13,35)); lvl=5; h,r-ind=1,1
          [4,3]((1,7,20),(4,27,74),(2,13,36),(2,13,35)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,20,55),(2,13,36),(2,13,35)); lvl=6; h,r-ind=1,1
            [3,3]((4,27,74),(3,20,55),(2,13,35)); lvl=6; h,r-ind=1,1
            [3,3]((1,7,20),(4,27,74),(3,20,55)); lvl=6; h,r-ind=1,1
            [3,3]((1,7,20),(3,20,55),(2,13,36)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,20),(4,27,74),(1,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,18),(4,26,67),(2,13,34)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,33),(1,7,17),(2,13,31)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(2,7,19),(1,6,17)); lvl=1; h,r-ind=5,5; optimized-h
[3,3]((1,7,20),(1,0,0),(1,6,17)); lvl=1; h,r-ind=1,1
[4,3]((1,0,0),(2,7,19),(1,6,9),(1,6,12)); lvl=1; h,r-ind=3,6
  [4,3]((1,3,8),(1,3,6),(1,4,10),(2,9,21)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,10),(4,15,36),(2,9,21),(1,4,9)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((4,15,36),(1,4,9),(2,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,21),(1,4,9),(2,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,10),(4,15,36),(2,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,21),(1,4,10),(2,8,19)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,7),(2,7,17),(4,15,36),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,26),(2,7,17),(4,15,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(3,11,26),(4,15,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(3,11,26),(2,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(1,3,7),(3,11,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,7),(1,3,6),(1,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(1,3,7),(2,7,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,8),(2,7,17),(1,4,10),(4,15,36)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,27),(2,7,17),(4,15,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,10),(3,11,27),(4,15,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(3,11,27),(2,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,10),(1,3,8),(3,11,27)); lvl=4; h,r-ind=1,1
  [4,3]((2,12,21),(1,3,6),(1,6,12),(2,9,21)); lvl=2; h,r-ind=9,3; alert-h-inc
    [3,3]((1,4,9),(1,5,11),(2,9,18)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,3,6),(1,4,9),(2,9,18)); lvl=3; h,r-ind=3,3; optimized-h
    [3,3]((1,5,9),(1,3,6),(2,9,18)); lvl=3; h,r-ind=3,3; optimized-h
    [4,3]((1,6,11),(1,6,12),(1,5,11),(2,9,18)); lvl=3; h,r-ind=1,3
      [3,3]((1,5,10),(1,5,11),(1,6,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(1,5,10),(1,6,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(2,9,18),(1,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(1,5,10),(2,9,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,11),(1,5,9),(2,9,18)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((2,12,21),(1,6,11),(1,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(1,5,11),(2,9,21)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,9),(2,12,21),(1,3,6)); lvl=2; h,r-ind=9,3; alert-h-inc; optimized-h
  [3,3]((1,6,9),(2,6,9),(1,3,6)); lvl=2; h,r-ind=9,3; alert-h-inc; optimized-h
  [3,3]((1,0,0),(2,6,9),(1,3,6)); lvl=2; h,r-ind=9,3; alert-h-inc; optimized-h
  [3,3]((2,7,19),(1,3,8),(1,4,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,8),(1,2,5),(1,3,6)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,5),(1,3,6)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(1,3,8),(1,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,19),(1,0,0),(1,3,8)); lvl=2; h,r-ind=1,1
[5,3]((2,13,26),(1,7,13),(1,7,10),(1,6,9),(1,6,12)); lvl=1; h,r-ind=1,1
  [4,3]((2,13,25),(4,26,45),(1,7,13),(2,14,23)); lvl=2; h,r-ind=1,1
    [3,3]((1,7,12),(2,14,23),(3,20,34)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,23),(1,7,12),(3,20,34)); lvl=3; h,r-ind=1,1
    [3,3]((4,26,45),(2,13,23),(3,20,34)); lvl=3; h,r-ind=1,1
    [3,3]((4,26,47),(2,13,23),(1,7,12)); lvl=3; h,r-ind=1,1
    [4,3]((2,13,25),(4,26,47),(1,7,13),(1,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,13),(4,27,49),(1,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,24),(4,27,49),(1,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,24),(4,26,47),(1,7,12)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,25),(2,13,24),(1,7,13),(4,27,49)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,24),(4,27,49),(3,20,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,13),(4,27,49),(3,20,37)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,25),(1,7,13),(3,20,37)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,25),(2,13,24),(3,20,37)); lvl=5; h,r-ind=1,1
  [5,3]((4,26,45),(2,12,21),(1,7,10),(1,6,9),(2,14,23)); lvl=2; h,r-ind=1,1
    [4,3]((3,19,33),(2,13,22),(1,6,10),(2,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((4,25,43),(1,6,10),(2,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,33),(4,25,43),(2,13,22)); lvl=4; h,r-ind=1,1
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      [3,3]((2,12,21),(4,25,43),(1,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,33),(2,12,21),(4,25,43)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,22),(1,7,11),(1,6,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,11),(1,6,9),(1,7,10),(1,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,10),(1,6,9),(2,13,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(1,6,9),(2,13,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(1,7,10),(2,13,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(1,7,11),(2,13,20)); lvl=4; h,r-ind=1,1
    [4,3]((3,20,34),(2,13,22),(1,7,11),(2,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,11),(2,13,22),(4,27,45)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,34),(2,13,22),(4,27,45)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,23),(3,20,34),(4,27,45)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,23),(1,7,11),(4,27,45)); lvl=4; h,r-ind=1,1
    [4,3]((4,26,45),(3,20,34),(3,19,33),(2,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((6,39,67),(2,13,22),(3,20,34)); lvl=4; h,r-ind=1,1
      [3,3]((4,26,45),(6,39,67),(3,20,34)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,33),(6,39,67),(2,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((4,26,45),(3,19,33),(6,39,67)); lvl=4; h,r-ind=1,1
  [4,3]((2,13,25),(4,26,45),(1,6,12),(2,12,21)); lvl=2; h,r-ind=1,1
    [3,3]((3,19,33),(2,12,21),(1,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,23),(3,19,33),(1,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,23),(4,26,47),(1,6,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,13,25),(4,26,47),(1,6,12),(1,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,25,47),(1,6,11),(1,6,12)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,25),(2,13,24),(4,25,47),(1,6,12)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,24),(4,25,47),(3,19,36)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,12),(4,25,47),(3,19,36)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,25),(2,13,24),(3,19,36)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,12),(2,13,25),(3,19,36)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,24),(4,25,47),(1,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,26,47),(2,13,24),(1,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,23),(4,26,45),(3,19,33)); lvl=3; h,r-ind=1,1
  [3,3]((2,13,26),(2,13,25),(1,6,12)); lvl=2; h,r-ind=1,1
  [3,3]((2,13,26),(2,13,25),(1,7,13)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,7,13),(1,7,10)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((1,7,20),(0,1,0),(1,7,13)); lvl=1; h,r-ind=7,7; optimized-h
[4,3]((0,1,0),(1,0,0),(1,7,10),(1,6,9)); lvl=1; h,r-ind=1,1
  [5,3]((1,6,9),(2,6,9),(3,19,27),(1,5,5),(1,3,3)); lvl=2; h,r-ind=1,1
    [5,3]((4,19,25),(1,3,3),(1,4,4),(1,3,4),(2,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(4,19,25),(5,23,29)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,4,5),(1,4,4),(5,23,29)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,3,3),(1,4,5),(1,4,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,12),(4,19,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,4),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,4,5),(1,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(1,3,4),(2,9,12)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,4,6),(2,6,9),(1,3,4)); lvl=3; h,r-ind=1,1
    [6,3]((1,6,9),(3,17,24),(1,4,6),(3,15,20),(4,19,25),(2,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(4,19,25),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,5,7),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(1,4,6),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(3,15,20),(4,19,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(3,16,22),(3,15,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,24),(1,5,7),(3,16,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(3,17,24),(1,5,7)); lvl=4; h,r-ind=1,1
    [4,3]((2,10,13),(4,19,25),(1,5,5),(1,4,4)); lvl=3; h,r-ind=3,1; alert-h-inc
      [3,3]((1,5,6),(1,4,4),(5,23,29)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((2,10,13),(1,5,6),(4,19,25),(5,23,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,18),(5,23,29),(1,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((6,29,37),(3,14,18),(1,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,13),(6,29,37),(1,5,6)); lvl=5; h,r-ind=1,1
        [4,3]((2,10,13),(6,29,37),(3,14,18),(4,19,25)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,18),(5,24,31),(6,29,37)); lvl=6; h,r-ind=1,1
          [3,3]((2,10,13),(5,24,31),(6,29,37)); lvl=6; h,r-ind=1,1
          [3,3]((4,19,25),(2,10,13),(5,24,31)); lvl=6; h,r-ind=1,1
          [3,3]((4,19,25),(3,14,18),(5,24,31)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,5),(1,5,6),(1,4,4)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,13),(1,6,8),(1,5,5)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,10,13),(3,15,20),(4,19,25)); lvl=3; h,r-ind=1,1
    [4,3]((3,17,24),(2,10,13),(3,15,20),(1,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,15),(3,15,20),(2,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,15),(2,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,15),(3,15,20),(3,16,22)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,24),(2,11,15),(3,16,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(3,17,24),(2,11,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,9),(3,17,24),(3,19,27),(1,6,8)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,12,17),(1,6,8),(3,17,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(2,12,17),(3,17,24)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,27),(2,12,17),(1,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(3,19,27),(2,12,17)); lvl=4; h,r-ind=1,1
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[3,3]((0,1,0),(1,5,5),(1,3,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,0,0),(2,6,9),(1,3,3)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
[3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,7,10),(1,6,9),(3,19,27)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(1,7,10),(3,19,27),(1,5,5)); lvl=2; h,r-ind=1,3; alert-r-inc
  [4,3]((1,7,10),(1,6,8),(3,19,27),(3,20,27)); lvl=3; h,r-ind=1,3
    [3,3]((2,13,18),(1,6,8),(3,19,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(2,13,18),(3,19,27)); lvl=4; h,r-ind=1,1
    [3,3]((3,20,27),(2,13,18),(1,6,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(3,20,27),(2,13,18)); lvl=4; h,r-ind=1,1
  [5,3]((0,1,0),(3,20,25),(1,7,8),(1,7,10),(3,20,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,9),(3,20,25),(3,20,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(3,20,27),(3,20,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(1,7,10),(3,20,27)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,7,9),(1,7,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(1,7,8),(3,20,25)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,7,9),(1,7,8)); lvl=4; h,r-ind=1,1
  [4,3]((3,20,25),(2,13,16),(1,6,8),(3,20,27)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,16),(1,6,8),(2,13,17)); lvl=4; h,r-ind=1,1
    [3,3]((3,20,27),(1,6,8),(2,13,17)); lvl=4; h,r-ind=1,1
    [3,3]((3,20,25),(2,13,16),(2,13,17)); lvl=4; h,r-ind=1,1
    [3,3]((3,20,25),(3,20,26),(2,13,17)); lvl=4; h,r-ind=1,1
    [3,3]((3,20,27),(3,20,26),(2,13,17)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,5),(4,26,29),(2,13,16),(1,6,8)); lvl=3; h,r-ind=3,3; alert-h-inc
    [3,3]((1,6,7),(2,13,15),(2,13,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(1,6,8),(2,13,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,5),(1,6,7),(1,6,8)); lvl=4; h,r-ind=1,1
    [4,3]((5,31,34),(1,6,7),(4,26,29),(2,13,15)); lvl=4; h,r-ind=1,1
      [4,3]((3,19,21),(6,38,43),(2,13,15),(4,26,29)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((6,38,43),(2,13,15),(5,32,36)); lvl=6; h,r-ind=1,1
        [3,3]((4,26,29),(2,13,15),(5,32,36)); lvl=6; h,r-ind=1,1
        [3,3]((3,19,21),(4,26,29),(5,32,36)); lvl=6; h,r-ind=1,1
        [3,3]((3,19,21),(6,38,43),(5,32,36)); lvl=6; h,r-ind=1,1
      [3,3]((1,6,7),(3,19,21),(6,38,43)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(5,31,34),(3,19,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(6,38,43),(2,13,15)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,5),(5,31,34),(1,6,7)); lvl=4; h,r-ind=3,3; optimized-h
  [5,3]((3,20,25),(2,14,15),(1,7,8),(4,26,29),(2,13,16)); lvl=3; h,r-ind=1,1
    [4,3]((2,13,16),(2,13,15),(3,20,23),(3,20,24)); lvl=4; h,r-ind=1,1
      [3,3]((5,33,39),(3,20,23),(2,13,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,16),(5,33,39),(2,13,15)); lvl=5; h,r-ind=1,1
      [3,3]((3,20,24),(5,33,39),(3,20,23)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,16),(3,20,24),(5,33,39)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,8),(9,61,69),(3,20,23),(3,20,24)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((4,27,31),(9,61,69),(3,20,23)); lvl=5; h,r-ind=1,1
      [3,3]((3,20,24),(4,27,31),(3,20,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,8),(3,20,24),(4,27,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,8),(4,27,31),(9,61,69)); lvl=5; h,r-ind=1,1
    [3,3]((3,20,25),(2,13,16),(3,20,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,8),(3,20,25),(3,20,24)); lvl=4; h,r-ind=1,1
    [5,3]((5,34,38),(3,20,22),(9,61,69),(2,13,15),(3,20,23)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,23),(9,61,69),(8,54,61)); lvl=5; h,r-ind=1,1
      [3,3]((5,34,38),(9,61,69),(8,54,61)); lvl=5; h,r-ind=1,1
      [4,3]((12,80,91),(7,47,53),(3,20,23),(8,54,61)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((10,67,76),(7,47,53),(8,54,61)); lvl=6; h,r-ind=1,1
        [3,3]((10,67,76),(3,20,23),(8,54,61)); lvl=6; h,r-ind=1,1
        [3,3]((12,80,91),(10,67,76),(3,20,23)); lvl=6; h,r-ind=1,1
        [3,3]((12,80,91),(10,67,76),(7,47,53)); lvl=6; h,r-ind=1,1
      [4,3]((5,34,38),(7,47,53),(4,27,30),(8,54,61)); lvl=5; h,r-ind=1,1
        [3,3]((12,81,91),(7,47,53),(4,27,30)); lvl=6; h,r-ind=1,1
        [3,3]((5,34,38),(12,81,91),(4,27,30)); lvl=6; h,r-ind=1,1
        [3,3]((8,54,61),(5,34,38),(12,81,91)); lvl=6; h,r-ind=1,1
        [3,3]((8,54,61),(12,81,91),(7,47,53)); lvl=6; h,r-ind=1,1
      [3,3]((12,80,91),(2,13,15),(3,20,23)); lvl=5; h,r-ind=1,1
      [5,3]((12,80,91),(7,47,53),(3,20,22),(4,27,30),(2,13,15)); lvl=5; h,r-ind=1,1
        [4,3]((9,60,68),(7,47,53),(13,87,98),(15,100,113)); lvl=6; h,r-ind=1,1
          [3,3]((22,147,166),(13,87,98),(7,47,53)); lvl=7; h,r-ind=1,1
          [3,3]((9,60,68),(22,147,166),(7,47,53)); lvl=7; h,r-ind=1,1
          [3,3]((15,100,113),(22,147,166),(13,87,98)); lvl=7; h,r-ind=1,1
          [3,3]((9,60,68),(15,100,113),(22,147,166)); lvl=7; h,r-ind=1,1
        [4,3]((4,27,30),(6,40,45),(13,87,98),(15,100,113)); lvl=6; h,r-ind=1,1
          [3,3]((15,100,113),(6,40,45),(19,127,143)); lvl=7; h,r-ind=1,1
          [3,3]((4,27,30),(6,40,45),(19,127,143)); lvl=7; h,r-ind=1,1
          [3,3]((13,87,98),(4,27,30),(19,127,143)); lvl=7; h,r-ind=1,1
          [3,3]((13,87,98),(15,100,113),(19,127,143)); lvl=7; h,r-ind=1,1
        [3,3]((2,13,15),(6,40,45),(15,100,113)); lvl=6; h,r-ind=1,1
        [3,3]((4,27,30),(3,20,22),(6,40,45)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,15),(3,20,22),(6,40,45)); lvl=6; h,r-ind=1,1
        [3,3]((9,60,68),(2,13,15),(15,100,113)); lvl=6; h,r-ind=1,1
        [3,3]((12,80,91),(9,60,68),(2,13,15)); lvl=6; h,r-ind=1,1
```

```
            [3,3]((12,80,91),(9,60,68),(7,47,53)); lvl=6; h,r-ind=1,1
            [3,3]((4,27,30),(7,47,53),(13,87,98)); lvl=6; h,r-ind=1,1
        [3,3]((3,20,22),(4,26,29),(2,13,15)); lvl=4; h,r-ind=1,1
        [4,3]((2,14,15),(1,7,8),(5,34,38),(9,61,69)); lvl=4; h,r-ind=1,1
          [3,3]((1,7,8),(9,61,69),(6,41,46)); lvl=5; h,r-ind=1,1
          [3,3]((5,34,38),(9,61,69),(6,41,46)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,15),(5,34,38),(6,41,46)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,15),(1,7,8),(6,41,46)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,15),(5,34,38),(3,20,22)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((0,1,0),(1,5,5),(2,14,15),(4,26,29)); lvl=3; h,r-ind=1,1
        [6,3]((3,20,22),(4,26,27),(3,19,20),(3,20,21),(4,26,29),(5,31,34)); lvl=4; h,r-ind=1,1
          [3,3]((2,13,14),(3,20,21),(4,26,27)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,20),(2,13,14),(4,26,27)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,20),(4,25,27),(2,13,14)); lvl=5; h,r-ind=1,1
          [4,3]((5,31,34),(3,19,21),(4,25,27),(2,13,14)); lvl=5; h,r-ind=1,1
            [3,3]((2,13,14),(3,19,21),(7,44,48)); lvl=6; h,r-ind=1,1
            [3,3]((5,31,34),(3,19,21),(7,44,48)); lvl=6; h,r-ind=1,1
            [3,3]((4,25,27),(5,31,34),(7,44,48)); lvl=6; h,r-ind=1,1
            [3,3]((4,25,27),(2,13,14),(7,44,48)); lvl=6; h,r-ind=1,1
          [3,3]((4,26,29),(3,19,21),(2,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((3,20,22),(2,13,14),(3,20,21)); lvl=5; h,r-ind=1,1
          [3,3]((3,20,22),(4,26,29),(2,13,14)); lvl=5; h,r-ind=1,1
        [4,3]((1,6,6),(3,19,20),(1,5,5),(5,31,34)); lvl=4; h,r-ind=1,1
          [3,3]((4,25,27),(2,12,13),(5,31,34)); lvl=5; h,r-ind=1,1
          [4,3]((5,31,33),(8,49,52),(4,25,27),(2,12,13)); lvl=5; h,r-ind=1,1
            [3,3]((2,12,13),(7,43,46),(8,49,52)); lvl=6; h,r-ind=1,1
            [3,3]((5,31,33),(7,43,46),(8,49,52)); lvl=6; h,r-ind=1,1
            [3,3]((5,31,33),(4,25,27),(7,43,46)); lvl=6; h,r-ind=1,1
            [3,3]((4,25,27),(2,12,13),(7,43,46)); lvl=6; h,r-ind=1,1
          [4,3]((1,5,5),(1,6,6),(8,49,52),(2,12,13)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((1,6,6),(8,49,52),(3,18,19)); lvl=6; h,r-ind=1,1
            [3,3]((2,12,13),(8,49,52),(3,18,19)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,5),(1,6,6),(3,18,19)); lvl=6; h,r-ind=1,1
            [3,3]((2,12,13),(1,5,5),(3,18,19)); lvl=6; h,r-ind=1,1
          [3,3]((5,31,33),(4,25,27),(3,19,20)); lvl=5; h,r-ind=1,1
          [4,3]((1,6,6),(5,31,33),(8,49,52),(3,19,20)); lvl=5; h,r-ind=1,1
            [3,3]((8,49,52),(5,31,33),(6,37,39)); lvl=6; h,r-ind=1,1
            [3,3]((3,19,20),(5,31,33),(6,37,39)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,6),(3,19,20),(6,37,39)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,6),(8,49,52),(6,37,39)); lvl=6; h,r-ind=1,1
        [3,3]((0,1,0),(1,6,6),(1,5,5)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,6),(4,26,27),(3,19,20),(2,13,13)); lvl=4; h,r-ind=1,1
          [3,3]((3,19,20),(4,26,27),(5,32,33)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,13),(4,26,27),(5,32,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,6),(2,13,13),(5,32,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,6),(3,19,20),(5,32,33)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(1,6,6),(2,13,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,7),(4,26,27),(3,20,21),(2,13,13)); lvl=4; h,r-ind=1,1
          [3,3]((3,20,21),(4,26,27),(5,33,34)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,13),(4,26,27),(5,33,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(3,20,21),(5,33,34)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,13),(1,7,7),(5,33,34)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(1,7,7),(2,13,13)); lvl=4; h,r-ind=1,1
        [4,3]((2,14,15),(1,7,7),(3,20,22),(3,20,21)); lvl=4; h,r-ind=1,1
          [3,3]((3,20,22),(4,27,29),(3,20,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(4,27,29),(3,20,21)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,15),(1,7,7),(4,27,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,15),(3,20,22),(4,27,29)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(2,14,15),(1,7,7)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,14,15),(1,7,8)); lvl=3; h,r-ind=1,1
```

20.14 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,8,20)); lvl=0; h,r-ind=20,100
  [5,3]((1,8,12),(1,6,12),(1,4,8),(1,4,6),(1,8,10)); lvl=1; h,r-ind=4,2
    [3,3]((1,5,10),(1,6,10),(1,6,12)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,7,12),(1,6,10),(1,6,12)); lvl=2; h,r-ind=2,2; optimized-h
    [4,3]((1,8,12),(1,7,12),(1,8,11),(1,6,10)); lvl=2; h,r-ind=1,2
      [3,3]((1,7,12),(1,7,11),(1,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,11),(1,7,11),(1,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,12),(1,7,12),(1,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,11),(1,8,12),(1,7,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,8),(1,5,10),(1,4,7),(1,6,10)); lvl=2; h,r-ind=1,2
      [3,3]((1,5,10),(1,6,10),(1,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(1,6,10),(1,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,10),(1,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(1,4,8),(1,5,9)); lvl=3; h,r-ind=1,1
```

```
    [4,3]((1,4,6),(1,4,7),(1,6,8),(1,6,10)); lvl=2; h,r-ind=2,2
      [4,3]((1,5,7),(1,5,8),(1,6,9),(1,6,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,8),(1,6,9),(2,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(1,6,9),(2,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(1,6,8),(2,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(1,5,8),(2,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,5,7),(1,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,4,7),(1,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(1,6,10),(1,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(1,5,8),(1,6,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,11),(1,8,10),(1,6,8),(1,6,10)); lvl=2; h,r-ind=2,2
      [4,3]((1,6,9),(1,7,10),(1,6,8),(1,7,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,10),(1,7,9),(2,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(1,7,9),(2,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,9),(1,6,8),(2,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,9),(1,7,10),(2,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,10),(1,7,10),(1,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,11),(1,8,10),(1,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,10),(1,6,9),(1,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,11),(1,6,10),(1,7,10)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(1,4,6),(1,8,10)); lvl=1; h,r-ind=2,2
    [5,3]((1,5,5),(1,6,8),(1,4,6),(1,2,3),(1,2,2)); lvl=2; h,r-ind=1,2
      [3,3]((1,3,4),(1,4,6),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,4),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,7),(1,4,5),(1,3,4),(1,4,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,5),(1,3,4),(2,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(1,3,4),(2,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(1,4,5),(2,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(1,5,7),(2,8,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,8),(1,5,7),(1,5,6),(1,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,7),(1,4,5),(2,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(1,4,5),(2,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(1,5,7),(2,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(1,6,8),(2,10,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,5),(2,7,7),(1,5,6),(1,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,4),(1,4,5),(2,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(3,13,15),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(3,13,15),(1,4,5)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,5),(1,4,4),(1,5,6),(3,13,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,4,4),(2,9,10),(3,13,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(2,9,10),(3,13,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(1,5,6),(2,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(1,4,4),(2,9,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(1,5,5),(1,5,6)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,7),(1,2,2),(1,4,5),(1,3,4)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,3),(1,2,2),(3,10,12),(1,3,4)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,2,2),(2,6,7),(1,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,12),(2,6,7),(1,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(3,10,12),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(1,2,2),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(3,10,12),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(1,3,3),(3,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,7),(1,4,5),(1,3,3)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,2,2)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,5,5),(1,2,2)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((0,1,0),(1,5,5),(1,8,10),(1,6,8)); lvl=2; h,r-ind=1,1
    [5,3]((1,6,7),(1,7,8),(2,15,15),(1,7,7),(2,12,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,7),(3,20,22),(4,27,29),(2,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,20,22),(4,27,29),(5,33,36)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,14),(4,27,29),(5,33,36)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(2,13,14),(5,33,36)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(3,20,22),(5,33,36)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,7),(3,21,22),(4,27,29),(2,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,21,22),(4,27,29),(5,34,36)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,14),(4,27,29),(5,34,36)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,7),(2,13,14),(5,34,36)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,7),(3,21,22),(5,34,36)); lvl=5; h,r-ind=1,1
      [3,3]((2,12,13),(1,7,7),(2,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,7),(2,15,15),(3,21,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,12,13),(2,13,14)); lvl=4; h,r-ind=1,1
      [4,3]((3,21,22),(1,7,8),(3,20,22),(4,27,29)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,8),(2,14,15),(3,20,22),(9,61,66)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,14,15),(9,61,66),(5,34,37)); lvl=6; h,r-ind=1,1
          [3,3]((3,20,22),(9,61,66),(5,34,37)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,8),(2,14,15),(5,34,37)); lvl=6; h,r-ind=1,1
          [3,3]((3,20,22),(1,7,8),(5,34,37)); lvl=6; h,r-ind=1,1
        [3,3]((4,27,29),(3,20,22),(9,61,66)); lvl=5; h,r-ind=1,1
        [4,3]((4,27,29),(3,21,22),(2,14,15),(9,61,66)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((6,41,44),(3,21,22),(2,14,15)); lvl=6; h,r-ind=1,1
```

```
            [3,3]((9,61,66),(6,41,44),(2,14,15)); lvl=6; h,r-ind=1,1
            [3,3]((4,27,29),(9,61,66),(6,41,44)); lvl=6; h,r-ind=1,1
            [3,3]((4,27,29),(6,41,44),(3,21,22)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,15),(3,21,22),(1,7,8)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [3,3]((1,6,7),(1,7,8),(3,20,22)); lvl=4; h,r-ind=1,1
      [4,3]((0,1,0),(1,5,5),(1,7,7),(2,12,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,5),(2,12,13),(1,6,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,7),(2,12,13),(1,6,6)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,7,7),(1,6,6)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(1,6,7),(2,12,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,9),(1,6,8),(1,6,7),(1,7,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,8),(1,6,7),(2,13,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(1,6,7),(2,13,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,9),(1,7,8),(2,13,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,9),(1,6,8),(2,13,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(1,6,8),(1,6,7)); lvl=3; h,r-ind=1,1
      [5,3]((0,1,0),(1,8,10),(1,7,9),(1,7,8),(2,15,15)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,9),(1,8,9),(1,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,8,9),(1,8,10)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,9),(2,15,17),(2,16,17),(1,8,9)); lvl=4; h,r-ind=1,1
          [3,3]((2,15,17),(2,16,17),(3,23,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(2,16,17),(3,23,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,9),(1,8,9),(3,23,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,9),(2,15,17),(3,23,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(2,15,17),(1,7,8)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,8),(2,15,17),(2,16,17),(1,7,8)); lvl=4; h,r-ind=1,1
          [3,3]((2,16,17),(2,15,17),(3,23,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(2,15,17),(3,23,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,8),(2,16,17),(3,23,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(1,8,8),(3,23,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,15),(1,8,8),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,15,15),(1,8,8)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,8,8),(2,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,16,17),(1,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,15,15),(1,7,7)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,8,12),(1,8,10)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,8,20),(0,1,0),(1,8,12)); lvl=1; h,r-ind=8,8; optimized-h
  [3,3]((1,8,20),(1,8,12),(1,6,12)); lvl=1; h,r-ind=16,8; optimized-h
  [4,3]((1,8,20),(1,4,10),(1,6,12),(1,4,8)); lvl=1; h,r-ind=4,4
    [4,3]((1,6,14),(1,5,10),(1,4,8),(1,4,9)); lvl=2; h,r-ind=1,2
      [3,3]((1,5,10),(1,5,11),(1,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(1,5,11),(1,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,14),(1,4,9),(1,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,14),(1,5,10),(1,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,14),(1,4,10),(1,4,9)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,6,15),(1,6,14),(1,4,10)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,8,20),(1,6,15),(1,6,14)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,6,14),(1,5,10),(1,6,12)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,7,16),(1,6,14),(1,6,12)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,8,20),(1,7,16),(1,6,14)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,4,10),(1,4,8)); lvl=1; h,r-ind=8,4; optimized-h
  [3,3]((1,0,0),(1,4,8),(1,4,6)); lvl=1; h,r-ind=8,4; optimized-h
```

20.15 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,9,20)); lvl=0; h,r-ind=20,400
  [5,3]((2,11,22),(1,9,11),(1,9,10),(1,2,3),(1,2,4)); lvl=1; h,r-ind=7,1
    [4,3]((1,2,3),(1,3,5),(2,11,15),(2,11,13)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,6),(1,4,5),(1,5,7),(2,9,13)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,5),(2,9,13),(2,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(2,9,13),(2,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(1,5,7),(2,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(1,4,5),(2,9,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(1,4,5),(1,3,5),(2,9,13)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,6),(1,4,5),(2,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,6),(1,4,5)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,3),(1,3,4),(1,3,5),(1,4,6)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,4),(1,4,6),(2,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,5),(1,4,6),(2,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(1,3,4),(2,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,5),(1,2,3),(2,6,9)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,14),(1,5,6),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(2,11,15),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(2,11,13),(1,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,10),(1,9,10),(2,11,15),(2,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,13),(2,11,14)); lvl=3; h,r-ind=1,1
```

```
  [3,3]((1,6,8),(1,6,7),(2,11,14)); lvl=3; h,r-ind=1,1
  [3,3]((2,11,15),(1,6,8),(2,11,14)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,8),(2,13,17),(1,6,7),(1,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,17),(1,7,8),(2,13,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(1,7,8),(2,13,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,8),(2,13,17),(2,13,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,8),(1,6,7),(2,13,16)); lvl=4; h,r-ind=1,1
  [4,3]((1,8,10),(1,9,10),(2,13,17),(1,7,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,10),(1,7,9),(1,9,10),(1,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(1,8,9),(2,16,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,10),(1,8,9),(2,16,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,10),(1,9,10),(2,16,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,10),(1,7,9),(2,16,19)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,9),(1,7,8),(1,8,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(2,13,17),(1,7,8)); lvl=4; h,r-ind=1,1
[5,3]((2,12,19),(4,22,35),(2,13,20),(1,8,10),(2,11,15)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,9),(1,6,8),(4,22,33),(2,11,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,8),(2,11,16),(2,11,15),(4,23,33)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,11,15),(3,17,24),(2,11,16)); lvl=5; h,r-ind=1,1
      [3,3]((4,23,33),(3,17,24),(2,11,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(4,23,33),(3,17,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,15),(3,17,24)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,9),(1,6,8),(4,23,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(2,11,16),(4,23,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(2,11,16),(4,22,33)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,9),(1,6,8),(2,13,17)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,9),(1,8,10),(2,13,17),(1,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((3,20,28),(1,7,10),(1,7,9),(1,8,10)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,7,10),(1,8,10),(2,14,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(1,8,10),(2,14,19)); lvl=5; h,r-ind=1,1
      [3,3]((3,20,28),(1,7,10),(2,14,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(3,20,28),(2,14,19)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,9),(3,20,28),(1,7,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(2,13,17),(1,7,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(3,20,28),(1,7,10)); lvl=4; h,r-ind=1,1
  [3,3]((2,13,20),(1,6,9),(1,7,10)); lvl=3; h,r-ind=1,1
  [3,3]((2,11,17),(1,6,9),(4,22,33)); lvl=3; h,r-ind=1,1
  [4,3]((3,17,27),(4,22,35),(2,11,17),(1,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((4,22,35),(2,11,17),(5,28,44)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(2,11,17),(5,28,44)); lvl=4; h,r-ind=1,1
    [3,3]((3,17,27),(1,6,9),(5,28,44)); lvl=4; h,r-ind=1,1
    [3,3]((3,17,27),(4,22,35),(5,28,44)); lvl=4; h,r-ind=1,1
  [3,3]((2,12,19),(3,17,27),(1,6,9)); lvl=3; h,r-ind=1,1
  [3,3]((2,12,19),(2,13,20),(1,6,9)); lvl=3; h,r-ind=1,1
[4,3]((1,9,11),(2,13,20),(1,7,11),(1,8,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,7,11),(1,7,10),(2,13,20)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,11),(1,8,11),(1,7,10)); lvl=3; h,r-ind=1,1
  [4,3]((1,9,11),(1,8,10),(1,8,11),(1,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,10),(1,7,10),(2,16,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,11),(1,7,10),(2,16,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,11),(1,8,11),(2,16,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,11),(1,8,10),(2,16,21)); lvl=4; h,r-ind=1,1
[4,3]((1,6,11),(2,12,19),(2,13,20),(1,7,11)); lvl=2; h,r-ind=1,1
  [4,3]((2,12,19),(1,6,10),(2,13,20),(4,26,41)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((3,19,30),(2,13,20),(4,26,41)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(3,19,30),(4,26,41)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,19),(1,6,10),(3,19,30)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,19),(3,19,30),(2,13,20)); lvl=4; h,r-ind=1,1
  [3,3]((1,7,11),(2,13,20),(4,26,41)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,11),(1,6,10),(4,26,41)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,11),(1,7,11),(1,6,10)); lvl=3; h,r-ind=1,1
[3,3]((1,9,11),(1,8,10),(1,9,10)); lvl=2; h,r-ind=1,1
[3,3]((1,2,4),(1,2,3),(1,3,5)); lvl=2; h,r-ind=1,1
[4,3]((1,4,8),(2,9,16),(1,2,4),(1,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,6),(1,2,4),(1,4,7),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,5),(2,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(1,3,5),(2,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(1,2,4),(2,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(1,3,6),(2,6,11)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,8),(1,3,6),(1,4,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,8),(2,9,16),(1,4,7)); lvl=3; h,r-ind=1,1
[5,3]((2,9,16),(2,10,17),(4,22,35),(1,3,5),(2,11,15)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,8),(1,5,7),(2,9,13)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,7),(1,5,8),(1,3,5),(2,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(1,4,6),(2,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((3,13,21),(1,5,8),(1,4,6)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,7),(3,13,21),(1,3,5),(1,4,6)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,8,13),(3,13,21),(1,4,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(2,8,13),(1,4,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,7),(1,3,5),(2,8,13)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((1,4,7),(2,8,13),(3,13,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(3,13,21),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(1,4,7),(1,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,16),(1,5,8),(2,10,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,8),(1,5,7),(2,11,15),(4,22,33)); lvl=3; h,r-ind=1,1
        [4,3]((4,21,31),(1,5,7),(2,11,16),(2,11,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,16,23),(2,11,16),(2,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(3,16,23),(2,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,31),(3,16,23),(2,11,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(4,21,31),(3,16,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(4,21,31),(2,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,22,33),(1,5,8),(2,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(4,21,31),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,11,17),(4,22,33)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,8),(4,22,35),(3,16,26),(2,11,17)); lvl=3; h,r-ind=1,1
        [3,3]((3,16,26),(4,22,35),(5,27,43)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,17),(4,22,35),(5,27,43)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(2,11,17),(5,27,43)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(3,16,26),(5,27,43)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,10,17),(3,16,26)); lvl=3; h,r-ind=1,1
    [5,3]((1,6,11),(1,5,10),(2,10,17),(2,12,19),(4,22,35)); lvl=2; h,r-ind=1,1
      [4,3]((2,11,18),(3,17,27),(4,22,35),(3,16,26)); lvl=3; h,r-ind=1,1
        [3,3]((6,33,53),(4,22,35),(3,17,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,18),(6,33,53),(3,17,27)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,26),(6,33,53),(4,22,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,18),(3,16,26),(6,33,53)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,9),(2,10,17),(2,11,18),(3,16,26)); lvl=3; h,r-ind=1,1
        [3,3]((2,10,17),(3,16,26),(4,21,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,18),(3,16,26),(4,21,35)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(2,11,18),(4,21,35)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(2,10,17),(4,21,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(1,5,9),(2,11,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,11),(1,6,10),(1,5,10),(1,5,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,10),(1,5,9),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(1,5,9),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(1,6,10),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(1,5,10),(2,11,20)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,10),(2,12,19),(2,11,18),(3,17,27)); lvl=3; h,r-ind=1,1
        [3,3]((2,12,19),(3,17,27),(4,23,37)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,18),(3,17,27),(4,23,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(2,12,19),(4,23,37)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,18),(1,6,10),(4,23,37)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,11),(2,11,22),(1,5,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,10),(1,4,8),(2,9,16),(2,10,17)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,8),(2,9,16),(4,18,33)); lvl=3; h,r-ind=1,1
      [4,3]((2,10,17),(1,5,9),(2,9,16),(4,18,33)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,16),(4,18,33),(3,14,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(4,18,33),(3,14,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,17),(1,5,9),(3,14,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,17),(2,9,16),(3,14,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(1,4,8),(4,18,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,10),(1,5,9),(1,4,8)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(1,2,3),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
[5,3]((2,11,22),(1,7,15),(1,5,11),(2,6,13),(1,2,4)); lvl=1; h,r-ind=1,1
  [5,3]((1,5,10),(1,4,8),(1,6,13),(4,19,40),(1,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,21),(4,19,40),(1,6,13)); lvl=3; h,r-ind=1,1
    [4,3]((4,21,44),(2,10,21),(3,17,36),(1,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,13),(2,10,21),(5,27,57)); lvl=4; h,r-ind=1,1
      [3,3]((4,21,44),(2,10,21),(5,27,57)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,36),(4,21,44),(5,27,57)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,36),(1,6,13),(5,27,57)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,15),(3,17,36),(1,6,13)); lvl=3; h,r-ind=1,1
    [5,3]((1,5,10),(4,21,44),(3,15,31),(1,7,15),(3,17,36)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,23),(4,21,44),(3,15,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(2,11,23),(3,15,31)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,36),(2,11,23),(4,21,44)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,36),(1,7,15),(2,11,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(1,7,15),(2,11,23)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,8),(4,21,44),(3,15,31),(2,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,31),(4,21,44),(5,25,52)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,21),(4,21,44),(5,25,52)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(2,10,21),(5,25,52)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(3,15,31),(5,25,52)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(2,10,21),(4,19,40)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(1,5,10),(3,15,31)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,10),(2,11,22),(1,7,15)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,8),(1,2,4),(4,19,40),(2,7,15)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,6),(1,2,4),(4,17,36),(2,7,15)); lvl=3; h,r-ind=1,1
      [4,3]((2,8,17),(1,2,4),(2,7,15),(4,13,27)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,21),(1,2,4),(2,7,15)); lvl=5; h,r-ind=1,1
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          [3,3]((2,8,17),(3,10,21),(2,7,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,13,27),(3,10,21),(1,2,4)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,17),(4,13,27),(3,10,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(2,8,17),(4,13,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(2,8,17),(4,17,36)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,2,4),(4,13,27)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,8),(1,3,6),(2,9,19),(4,17,36)); lvl=3; h,r-ind=1,1
        [3,3]((3,12,25),(4,17,36),(1,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(3,12,25),(1,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,12,25),(2,9,19),(4,17,36)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(3,12,25),(2,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,40),(1,4,8),(2,9,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,11),(1,6,13),(4,19,40),(2,7,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,19),(1,6,13),(4,19,40)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,19),(4,17,36),(5,25,54),(1,6,13)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,13),(5,25,54),(3,14,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,13),(6,29,62),(3,14,30)); lvl=4; h,r-ind=1,1
        [4,3]((2,9,19),(4,17,36),(6,29,62),(3,14,30)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,23,49),(4,17,36),(3,14,30)); lvl=5; h,r-ind=1,1
          [3,3]((6,29,62),(5,23,49),(3,14,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,19),(6,29,62),(5,23,49)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,19),(5,23,49),(4,17,36)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,13),(2,9,19),(6,29,62)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(5,25,54),(1,6,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,11),(2,7,15),(4,17,36),(5,25,54)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,14,30),(2,8,17),(7,32,69)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,5,11),(2,7,15),(2,8,17),(7,32,69)); lvl=4; h,r-ind=1,3
          [3,3]((3,13,28),(2,8,17),(2,7,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(3,13,28),(2,7,15)); lvl=5; h,r-ind=1,1
          [3,3]((7,32,69),(3,13,28),(2,8,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(7,32,69),(3,13,28)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,11),(5,25,54),(3,14,30),(7,32,69)); lvl=4; h,r-ind=1,3
          [3,3]((3,14,30),(4,19,41),(5,25,54)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(4,19,41),(5,25,54)); lvl=5; h,r-ind=1,1
          [3,3]((7,32,69),(3,14,30),(4,19,41)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(7,32,69),(4,19,41)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,30),(4,17,36),(2,8,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,11),(2,6,13),(2,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,6,13),(2,7,15)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,6,13),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,5,11),(2,6,13)); lvl=1; h,r-ind=1,1
  [3,3]((1,9,20),(1,7,15),(1,5,11)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,9,20),(1,5,11)); lvl=1; h,r-ind=1,1
  [4,3]((1,9,20),(2,11,22),(1,7,15),(1,9,11)); lvl=1; h,r-ind=1,2
    [3,3]((1,6,12),(1,7,15),(2,11,22)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,11),(1,6,12),(2,11,22)); lvl=2; h,r-ind=1,1
    [4,3]((2,15,32),(2,14,29),(1,6,12),(1,7,15)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,12),(2,14,29),(3,21,44)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,32),(2,14,29),(3,21,44)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,15),(2,15,32),(3,21,44)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,15),(1,6,12),(3,21,44)); lvl=3; h,r-ind=1,1
    [3,3]((1,9,20),(2,15,32),(1,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,14,29),(1,7,14),(1,6,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,14,27),(1,7,14),(1,6,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,11),(1,7,11),(2,14,27),(1,6,12)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,12),(4,25,47),(1,7,13),(2,14,25)); lvl=3; h,r-ind=1,1
        [4,3]((4,26,49),(2,13,24),(2,14,25),(1,7,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,13,24),(3,20,37),(2,14,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,13),(3,20,37),(2,14,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,26,49),(1,7,13),(3,20,37)); lvl=5; h,r-ind=1,1
          [3,3]((4,26,49),(2,13,24),(3,20,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,12),(4,26,49),(1,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(4,26,49),(2,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(4,25,47),(2,13,24)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,11),(1,7,11),(4,25,47),(2,14,25)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,13,24),(1,7,12),(2,14,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,24),(1,7,12),(5,32,58)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,6,11),(1,7,12),(1,7,11),(5,32,58)); lvl=4; h,r-ind=1,3
          [3,3]((2,13,23),(1,7,12),(1,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(2,13,23),(1,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((5,32,58),(2,13,23),(1,7,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(5,32,58),(2,13,23)); lvl=5; h,r-ind=1,1
        [4,3]((1,6,11),(4,25,47),(2,13,24),(5,32,58)); lvl=4; h,r-ind=1,3
          [3,3]((3,19,35),(4,25,47),(2,13,24)); lvl=5; h,r-ind=1,1
          [3,3]((5,32,58),(3,19,35),(2,13,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(5,32,58),(3,19,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(3,19,35),(4,25,47)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,12),(1,6,11),(4,25,47)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,12),(2,14,27),(1,7,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,9,11),(1,7,11),(2,18,31),(2,14,27)); lvl=2; h,r-ind=2,1; alert-h-inc
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    [4,3]((1,8,14),(2,16,29),(2,14,27),(1,7,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,13),(4,30,55),(2,14,27),(2,15,28)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,22,41),(4,30,55),(2,15,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,27),(3,22,41),(2,15,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,13),(2,14,27),(3,22,41)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,13),(3,22,41),(4,30,55)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,14),(4,30,55),(2,16,29),(2,15,28)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,23,42),(2,15,28),(4,30,55)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(3,23,42),(4,30,55)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,29),(3,23,42),(2,15,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(2,16,29),(3,23,42)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,14),(1,7,13),(4,30,55)); lvl=4; h,r-ind=1,1
    [4,3]((2,14,25),(1,8,14),(1,8,13),(1,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,13),(2,15,26),(1,8,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,13),(2,15,26),(1,8,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,13),(2,14,25),(2,15,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,25),(1,8,13),(2,15,26)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,11),(1,7,11),(2,14,25),(1,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,13),(2,14,25),(1,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,13),(1,8,12),(1,7,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,11),(1,8,12),(1,7,11),(1,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,11),(1,7,12),(2,15,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,12),(1,7,12),(2,15,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,11),(1,7,11),(2,15,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,12),(1,8,11),(2,15,23)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,15),(2,18,27),(1,8,14),(1,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,14),(1,8,13),(3,25,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,14),(1,8,13),(3,25,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,14),(2,18,27),(1,8,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,15),(1,9,14),(1,8,14),(3,25,41)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,17,28),(1,9,14),(3,25,41)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(2,17,28),(3,25,41)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,15),(2,17,28),(1,9,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(1,9,15),(2,17,28)); lvl=5; h,r-ind=1,1
    [4,3]((1,8,11),(1,9,11),(2,18,27),(1,8,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,12),(1,8,13),(1,9,13),(2,18,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,17,25),(1,8,13),(1,9,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,25),(2,17,25),(1,9,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,12),(2,18,25),(2,17,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,12),(2,17,25),(1,8,13)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,11),(1,8,12),(1,9,11),(2,18,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,12),(1,9,12),(3,25,35)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,11),(1,9,11),(1,9,12),(3,25,35)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,17,23),(1,9,11),(1,9,12)); lvl=6; h,r-ind=1,1
          [3,3]((3,25,35),(2,17,23),(1,9,12)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,11),(3,25,35),(2,17,23)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,11),(2,17,23),(1,9,11)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,12),(1,8,11),(3,25,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,12),(2,18,25),(1,9,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,13),(2,18,27),(1,9,13)); lvl=4; h,r-ind=1,1
    [4,3]((2,18,31),(1,9,15),(1,8,14),(2,16,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,15),(1,8,14),(4,34,59)); lvl=4; h,r-ind=1,1
      [4,3]((2,16,29),(2,17,30),(1,8,14),(4,34,59)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,25,44),(2,17,30),(4,34,59)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(3,25,44),(4,34,59)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,29),(3,25,44),(2,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(2,16,29),(3,25,44)); lvl=5; h,r-ind=1,1
      [4,3]((2,18,31),(2,17,30),(1,9,15),(4,34,59)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,26,45),(2,17,30),(4,34,59)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,15),(3,26,45),(4,34,59)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,31),(3,26,45),(2,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,15),(2,18,31),(3,26,45)); lvl=5; h,r-ind=1,1
  [4,3]((1,9,20),(2,18,31),(2,14,27),(1,7,14)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((2,16,29),(1,8,15),(2,15,29),(2,14,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,15),(2,15,29),(4,30,57)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,27),(2,15,29),(4,30,57)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,15,28),(2,14,27),(4,30,57)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((2,15,28),(2,16,29),(1,8,15),(4,30,57)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,16,29),(3,23,43),(1,8,15)); lvl=5; h,r-ind=1,1
        [3,3]((4,30,57),(3,23,43),(1,8,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,28),(2,16,29),(3,23,43)); lvl=5; h,r-ind=1,1
        [3,3]((4,30,57),(2,15,28),(3,23,43)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,14),(2,15,29),(2,14,27)); lvl=3; h,r-ind=1,1
    [4,3]((2,16,29),(2,18,31),(1,9,16),(1,8,15)); lvl=3; h,r-ind=1,1
      [4,3]((2,18,31),(2,17,30),(1,9,16),(4,34,61)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,26,46),(2,17,30),(4,34,61)); lvl=5; h,r-ind=1,1
        [3,3]((3,26,46),(1,9,16),(4,34,61)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,31),(3,26,46),(1,9,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,31),(3,26,46),(2,17,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,15),(1,9,16),(4,34,61)); lvl=4; h,r-ind=1,1
```

```
      [4,3]((1,8,15),(2,16,29),(2,17,30),(4,34,61)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,25,45),(2,16,29),(2,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((4,34,61),(3,25,45),(2,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,15),(4,34,61),(3,25,45)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,15),(3,25,45),(2,16,29)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,15),(2,16,31),(2,15,29)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,14),(1,8,17),(2,16,31),(2,15,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,14),(1,8,17),(1,8,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,14),(4,30,59),(1,8,16)); lvl=4; h,r-ind=1,1
      [4,3]((2,15,29),(4,30,59),(2,16,31),(1,8,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,23,45),(1,8,16),(2,16,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,29),(3,23,45),(2,16,31)); lvl=5; h,r-ind=1,1
        [3,3]((4,30,59),(3,23,45),(1,8,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,29),(4,30,59),(3,23,45)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,29),(1,7,14),(4,30,59)); lvl=4; h,r-ind=1,1
    [4,3]((2,18,35),(1,9,16),(1,8,15),(2,16,31)); lvl=3; h,r-ind=1,1
      [4,3]((1,9,17),(5,42,80),(1,8,15),(1,9,16)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((5,42,80),(2,17,32),(1,8,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,16),(2,17,32),(1,8,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,17),(1,9,16),(2,17,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,17),(5,42,80),(2,17,32)); lvl=5; h,r-ind=1,1
      [4,3]((3,25,48),(5,42,80),(2,16,31),(1,8,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,15),(4,33,63),(2,16,31)); lvl=5; h,r-ind=1,1
        [3,3]((3,25,48),(4,33,63),(2,16,31)); lvl=5; h,r-ind=1,1
        [3,3]((3,25,48),(5,42,80),(4,33,63)); lvl=5; h,r-ind=1,1
        [3,3]((5,42,80),(1,8,15),(4,33,63)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,33),(3,25,48),(2,16,31)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,17),(2,17,33),(3,25,48),(5,42,80)); lvl=4; h,r-ind=1,1
        [3,3]((2,17,33),(4,34,65),(3,25,48)); lvl=5; h,r-ind=1,1
        [3,3]((5,42,80),(4,34,65),(3,25,48)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,17),(2,17,33),(4,34,65)); lvl=5; h,r-ind=1,1
        [3,3]((5,42,80),(1,9,17),(4,34,65)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,17),(2,18,35),(2,17,33)); lvl=4; h,r-ind=1,1
    [4,3]((1,9,20),(1,8,17),(2,18,35),(2,16,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,17,33),(1,8,16),(2,16,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,33),(1,9,18),(1,8,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,18),(2,18,37),(1,8,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,20),(2,18,37),(1,8,17),(1,8,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,25,52),(1,8,16),(1,8,17)); lvl=5; h,r-ind=1,1
        [4,3]((1,9,20),(3,25,52),(1,9,19),(1,8,17)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,17,36),(3,25,52),(1,9,19)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,20),(2,17,36),(1,9,19)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,17),(2,17,36),(3,25,52)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,20),(1,8,17),(2,17,36)); lvl=6; h,r-ind=1,1
        [3,3]((3,25,52),(1,9,19),(1,8,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,19),(2,18,37),(1,8,16)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,33),(2,18,35),(1,9,18)); lvl=4; h,r-ind=1,1
  [4,3]((1,9,20),(2,15,32),(2,14,29),(1,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,15,32),(5,37,78),(2,14,29)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,17),(1,7,14),(5,37,78),(2,14,29)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,14,29),(1,7,14),(3,22,46)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,17),(1,7,14),(3,22,46)); lvl=4; h,r-ind=1,1
      [3,3]((5,37,78),(2,14,29),(3,22,46)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,17),(5,37,78),(3,22,46)); lvl=4; h,r-ind=1,1
    [4,3]((1,9,20),(1,8,17),(2,15,32),(5,37,78)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,23,49),(5,37,78),(1,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,20),(3,23,49),(1,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,32),(3,23,49),(5,37,78)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,20),(2,15,32),(3,23,49)); lvl=4; h,r-ind=1,1
[3,3]((0,1,0),(1,9,11),(1,9,10)); lvl=1; h,r-ind=1,1
[3,3]((1,9,20),(0,1,0),(1,9,11)); lvl=1; h,r-ind=9,9; optimized-h
[4,3]((1,0,0),(0,1,0),(1,9,10),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,3),(2,11,13),(1,1,1),(1,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,5),(2,11,13),(1,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(1,3,3),(1,5,5),(1,5,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,6),(3,13,15),(1,4,4),(1,5,5)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,10),(1,4,4),(3,13,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(2,9,10),(3,13,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,10),(1,5,5),(1,4,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(2,9,10),(1,5,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,6),(3,13,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,5),(3,13,15),(1,3,3),(1,4,4)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,4),(3,13,15),(2,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(3,13,15),(2,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,4,4),(2,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(1,3,3),(2,8,9)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,3),(1,4,5),(1,1,1),(1,3,3)); lvl=3; h,r-ind=2,1; alert-h-inc
      [4,3]((1,4,5),(1,3,4),(1,2,2),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,2,2),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(2,6,7)); lvl=5; h,r-ind=1,1
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```
          [3,3]((1,4,5),(1,3,4),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(1,4,5),(2,6,7)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,1),(1,2,3),(1,3,4),(1,2,2)); lvl=4; h,r-ind=1,1
          [3,3]((1,2,3),(1,3,4),(2,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(1,3,4),(2,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(1,2,3),(2,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(1,1,1),(2,4,5)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,5,5)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,9,10),(2,11,13),(1,5,5)); lvl=2; h,r-ind=1,1
      [5,3]((1,6,7),(1,7,8),(1,6,6),(3,17,18),(2,15,15)); lvl=3; h,r-ind=1,1
        [4,3]((1,7,7),(1,7,8),(4,26,29),(2,13,14)); lvl=4; h,r-ind=1,1
          [3,3]((3,20,22),(1,7,8),(4,26,29)); lvl=5; h,r-ind=1,1
          [3,3]((3,20,22),(2,13,14),(4,26,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(3,20,22),(2,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(3,20,22),(1,7,8)); lvl=5; h,r-ind=1,1
        [4,3]((1,6,7),(2,12,13),(4,26,29),(2,13,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,19,21),(4,26,29),(2,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,13),(3,19,21),(2,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(2,12,13),(3,19,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(3,19,21),(4,26,29)); lvl=5; h,r-ind=1,1
        [4,3]((1,6,6),(2,12,13),(1,7,7),(2,13,14)); lvl=4; h,r-ind=1,1
          [3,3]((2,12,13),(2,13,14),(3,19,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(2,13,14),(3,19,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,6),(1,7,7),(3,19,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,6),(2,12,13),(3,19,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(3,17,18),(2,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(3,17,18),(2,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,7),(2,15,15),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(1,7,8),(4,26,29)); lvl=4; h,r-ind=1,1
      [4,3]((0,1,0),(1,9,10),(1,7,8),(2,15,15)); lvl=3; h,r-ind=1,1
        [4,3]((1,8,9),(2,17,17),(1,8,8),(1,7,8)); lvl=4; h,r-ind=1,1
          [3,3]((2,16,17),(2,17,17),(1,8,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(2,16,17),(1,8,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(1,7,8),(2,16,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(2,16,17),(2,17,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,15),(1,8,8),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,15,15),(1,8,8)); lvl=4; h,r-ind=1,1
        [4,3]((0,1,0),(1,9,10),(1,8,9),(2,17,17)); lvl=4; h,r-ind=1,1
          [3,3]((1,9,9),(1,9,10),(1,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,17),(1,9,9),(1,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(2,17,17),(1,9,9)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(1,9,9),(1,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(2,17,17),(1,8,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,5),(2,11,13),(1,6,7),(3,17,18)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,12),(1,6,7),(2,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(2,11,12),(2,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,18),(2,11,12),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(3,17,18),(2,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(2,15,15)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,5,5),(1,6,6),(3,17,18)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
```

20.16 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,10,20)); lvl=0; h,r-ind=20,40
  [3,3]((1,10,20),(1,10,10),(1,5,10)); lvl=1; h,r-ind=50,10; alert-h-inc
    [4,3]((1,10,20),(1,10,15),(2,15,30),(2,15,25)); lvl=2; h,r-ind=25,5
      [4,3]((2,16,29),(2,15,30),(1,8,16),(4,30,55)); lvl=3; h,r-ind=1,1
        [4,3]((1,8,15),(1,8,16),(4,30,57),(2,15,30)); lvl=4; h,r-ind=1,1
          [4,3]((1,8,16),(2,15,29),(4,31,60),(2,15,30)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,23,45),(4,31,60),(2,15,29)); lvl=6; h,r-ind=1,1
            [3,3]((2,15,30),(3,23,45),(2,15,29)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,16),(2,15,30),(3,23,45)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,16),(3,23,45),(4,31,60)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,15),(2,15,29),(4,31,60)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,16),(1,8,15),(4,31,60)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,15),(2,15,29),(4,30,57)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,15),(2,15,28),(4,30,57)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,15),(2,15,28),(3,23,42)); lvl=4; h,r-ind=1,1
        [3,3]((4,30,55),(2,15,28),(3,23,42)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,29),(1,8,15),(3,23,42)); lvl=4; h,r-ind=1,1
      [4,3]((2,16,29),(1,8,13),(2,15,25),(4,30,55)); lvl=3; h,r-ind=1,1
        [4,3]((1,8,14),(1,8,13),(4,30,53),(2,15,25)); lvl=4; h,r-ind=1,1
          [4,3]((1,8,13),(2,15,26),(2,15,25),(4,31,53)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,15,25),(3,23,39),(2,15,26)); lvl=6; h,r-ind=1,1
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        [3,3]((4,31,53),(3,23,39),(2,15,26)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,13),(4,31,53),(3,23,39)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,13),(2,15,25),(3,23,39)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,14),(1,8,13),(4,31,53)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,14),(2,15,26),(4,31,53)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,14),(2,15,26),(4,30,53)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,14),(4,30,53),(2,15,27)); lvl=4; h,r-ind=1,1
    [3,3]((3,23,42),(1,8,14),(2,15,27)); lvl=4; h,r-ind=1,1
    [3,3]((2,16,29),(3,23,42),(1,8,14)); lvl=4; h,r-ind=1,1
    [3,3]((4,30,55),(3,23,42),(2,15,27)); lvl=4; h,r-ind=1,1
  [4,3]((2,16,29),(4,34,61),(1,8,13),(2,17,27)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,14),(1,8,13),(2,17,29),(2,17,27)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,13),(4,33,55),(2,17,28),(2,17,27)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,33,55),(3,25,41),(2,17,28)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,27),(3,25,41),(2,17,28)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,13),(2,17,27),(3,25,41)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,13),(4,33,55),(3,25,41)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,14),(1,8,13),(4,33,55)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,14),(4,33,55),(2,17,29),(2,17,28)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,17,28),(2,17,29),(3,25,42)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,14),(2,17,29),(3,25,42)); lvl=6; h,r-ind=1,1
        [3,3]((4,33,55),(2,17,28),(3,25,42)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,14),(4,33,55),(3,25,42)); lvl=6; h,r-ind=1,1
    [3,3]((1,8,14),(2,17,30),(2,17,29)); lvl=4; h,r-ind=1,1
    [3,3]((3,25,45),(1,8,14),(2,17,30)); lvl=4; h,r-ind=1,1
    [3,3]((3,25,45),(4,34,61),(2,17,30)); lvl=4; h,r-ind=1,1
    [3,3]((3,25,45),(2,16,29),(1,8,14)); lvl=4; h,r-ind=1,1
  [4,3]((2,20,35),(4,34,61),(1,10,15),(2,17,27)); lvl=3; h,r-ind=3,1
    [3,3]((2,17,29),(4,35,60),(2,17,30)); lvl=4; h,r-ind=2,2; alert-r-inc; optimized-h
    [4,3]((3,27,46),(1,9,16),(4,35,60),(2,17,30)); lvl=4; h,r-ind=2,1
      [4,3]((2,18,31),(1,9,16),(3,26,45),(2,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,30),(1,9,16),(4,35,61)); lvl=6; h,r-ind=1,1
        [3,3]((2,18,31),(1,9,16),(4,35,61)); lvl=6; h,r-ind=1,1
        [3,3]((3,26,45),(2,18,31),(4,35,61)); lvl=6; h,r-ind=1,1
        [3,3]((3,26,45),(2,17,30),(4,35,61)); lvl=6; h,r-ind=1,1
      [4,3]((4,35,60),(3,27,46),(2,18,31),(3,26,45)); lvl=5; h,r-ind=1,1
        [3,3]((3,27,46),(2,18,31),(6,53,91)); lvl=6; h,r-ind=1,1
        [3,3]((3,26,45),(2,18,31),(6,53,91)); lvl=6; h,r-ind=1,1
        [3,3]((4,35,60),(3,26,45),(6,53,91)); lvl=6; h,r-ind=1,1
        [3,3]((4,35,60),(3,27,46),(6,53,91)); lvl=6; h,r-ind=1,1
    [3,3]((1,9,16),(4,34,61),(2,17,30)); lvl=4; h,r-ind=1,1
    [4,3]((1,10,17),(2,19,32),(3,27,46),(1,9,16)); lvl=4; h,r-ind=1,1
      [4,3]((2,19,32),(5,47,80),(3,27,46),(2,18,31)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,37,63),(3,27,46),(2,18,31)); lvl=6; h,r-ind=1,1
        [3,3]((5,47,80),(4,37,63),(2,18,31)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,32),(5,47,80),(4,37,63)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,32),(4,37,63),(3,27,46)); lvl=6; h,r-ind=1,1
      [4,3]((1,9,16),(1,10,17),(5,47,80),(2,18,31)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,28,48),(1,10,17),(5,47,80)); lvl=6; h,r-ind=1,1
        [3,3]((2,18,31),(3,28,48),(5,47,80)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,16),(3,28,48),(1,10,17)); lvl=6; h,r-ind=1,1
        [3,3]((2,18,31),(1,9,16),(3,28,48)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,17),(2,19,32),(5,47,80)); lvl=5; h,r-ind=1,1
    [3,3]((2,20,35),(1,10,17),(1,9,16)); lvl=4; h,r-ind=1,1
    [5,3]((3,27,46),(1,9,14),(2,17,27),(2,17,29),(4,35,60)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,15),(2,17,27),(2,17,28),(1,9,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,28),(2,17,27),(3,26,42)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,14),(2,17,27),(3,26,42)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,15),(1,9,14),(3,26,42)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,15),(2,17,28),(3,26,42)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,15),(2,17,29),(2,17,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,15),(7,61,104),(2,17,29)); lvl=5; h,r-ind=1,1
      [3,3]((4,35,60),(7,61,104),(2,17,29)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,15),(3,27,46),(4,35,60),(7,61,104)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,27,46),(5,44,75),(4,35,60)); lvl=6; h,r-ind=1,1
        [3,3]((7,61,104),(5,44,75),(4,35,60)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,15),(7,61,104),(5,44,75)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,15),(3,27,46),(5,44,75)); lvl=6; h,r-ind=1,1
    [5,3]((2,19,32),(2,20,33),(3,27,46),(1,10,15),(1,9,14)); lvl=4; h,r-ind=1,1
      [4,3]((1,10,16),(1,9,15),(1,9,14),(1,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,15),(1,9,14),(2,19,30)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,15),(1,9,14),(2,19,30)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,16),(1,10,15),(2,19,30)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,16),(1,9,15),(2,19,30)); lvl=6; h,r-ind=1,1
      [4,3]((1,10,16),(3,29,48),(1,9,15),(6,57,95)); lvl=5; h,r-ind=1,1
        [3,3]((3,29,48),(6,57,95),(4,38,63)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,15),(6,57,95),(4,38,63)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,16),(3,29,48),(4,38,63)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,15),(1,10,16),(4,38,63)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,16),(2,20,33),(3,29,48)); lvl=5; h,r-ind=1,1
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      [4,3]((2,19,32),(2,20,33),(3,29,48),(6,57,95)); lvl=5; h,r-ind=1,1
        [3,3]((5,48,80),(2,20,33),(3,29,48)); lvl=6; h,r-ind=1,1
        [3,3]((6,57,95),(5,48,80),(3,29,48)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,32),(6,57,95),(5,48,80)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,32),(5,48,80),(2,20,33)); lvl=6; h,r-ind=1,1
      [4,3]((2,19,32),(3,27,46),(1,9,15),(6,57,95)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((1,9,15),(3,28,47),(3,27,46)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,32),(3,28,47),(3,27,46)); lvl=6; h,r-ind=1,1
        [3,3]((6,57,95),(1,9,15),(3,28,47)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,32),(6,57,95),(3,28,47)); lvl=6; h,r-ind=1,1
    [3,3]((1,10,17),(2,19,32),(2,20,33)); lvl=4; h,r-ind=1,1
  [4,3]((2,17,34),(2,16,29),(4,34,61),(1,8,16)); lvl=3; h,r-ind=1,1
    [3,3]((3,25,45),(1,8,15),(2,16,29)); lvl=4; h,r-ind=1,1
    [3,3]((3,25,45),(2,17,31),(1,8,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,17,32),(2,17,31),(1,8,15)); lvl=4; h,r-ind=1,1
    [4,3]((2,17,34),(1,8,16),(2,17,32),(1,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,16),(1,8,15),(4,33,64)); lvl=5; h,r-ind=1,1
      [4,3]((2,17,33),(2,17,32),(1,8,15),(4,33,64)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((1,8,15),(2,17,32),(3,25,48)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,33),(2,17,32),(3,25,48)); lvl=6; h,r-ind=1,1
        [3,3]((4,33,64),(1,8,15),(3,25,48)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,33),(4,33,64),(3,25,48)); lvl=6; h,r-ind=1,1
      [4,3]((2,17,34),(2,17,33),(1,8,16),(4,33,64)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,17,33),(4,33,64),(3,25,49)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,16),(4,33,64),(3,25,49)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,34),(2,17,33),(3,25,49)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,16),(2,17,34),(3,25,49)); lvl=6; h,r-ind=1,1
    [3,3]((3,25,45),(2,17,31),(4,34,61)); lvl=4; h,r-ind=1,1
  [4,3]((1,10,20),(2,20,35),(2,17,34),(4,34,61)); lvl=3; h,r-ind=3,1
    [3,3]((2,17,31),(2,17,32),(4,35,65)); lvl=4; h,r-ind=2,2; alert-r-inc; optimized-h
    [5,3]((1,9,18),(2,17,34),(3,27,50),(2,17,32),(4,35,65)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,17),(3,27,50),(4,35,65),(7,61,114)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,27,50),(5,44,82),(4,35,65)); lvl=6; h,r-ind=1,1
        [3,3]((7,61,114),(5,44,82),(4,35,65)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(7,61,114),(5,44,82)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(3,27,50),(5,44,82)); lvl=6; h,r-ind=1,1
      [3,3]((2,17,32),(4,35,65),(7,61,114)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,32),(1,9,17),(7,61,114)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,33),(2,17,32),(1,9,17)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,18),(2,17,33),(2,17,34),(1,9,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,34),(2,17,33),(3,26,51)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(2,17,33),(3,26,51)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,18),(1,9,17),(3,26,51)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,18),(2,17,34),(3,26,51)); lvl=6; h,r-ind=1,1
    [5,3]((1,10,20),(2,20,37),(2,19,35),(1,9,18),(3,27,50)); lvl=4; h,r-ind=1,1
      [4,3]((3,27,50),(1,9,17),(6,57,106),(2,19,35)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((3,28,52),(1,9,17),(6,57,106)); lvl=6; h,r-ind=1,1
        [3,3]((3,28,52),(2,19,35),(6,57,106)); lvl=6; h,r-ind=1,1
        [3,3]((3,27,50),(3,28,52),(2,19,35)); lvl=6; h,r-ind=1,1
        [3,3]((3,27,50),(3,28,52),(1,9,17)); lvl=6; h,r-ind=1,1
      [4,3]((2,20,37),(3,29,54),(6,57,106),(2,19,35)); lvl=5; h,r-ind=1,1
        [3,3]((5,48,89),(3,29,54),(6,57,106)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,35),(5,48,89),(6,57,106)); lvl=6; h,r-ind=1,1
        [3,3]((2,20,37),(5,48,89),(3,29,54)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,35),(2,20,37),(5,48,89)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,19),(2,20,37),(3,29,54)); lvl=5; h,r-ind=1,1
      [4,3]((1,10,19),(3,29,54),(1,9,17),(6,57,106)); lvl=5; h,r-ind=1,1
        [3,3]((3,29,54),(6,57,106),(4,38,71)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(6,57,106),(4,38,71)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,19),(3,29,54),(4,38,71)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(1,10,19),(4,38,71)); lvl=6; h,r-ind=1,1
      [4,3]((1,10,19),(1,10,20),(1,9,18),(1,9,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,20),(1,9,18),(2,19,37)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(1,9,18),(2,19,37)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,19),(1,10,20),(2,19,37)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(1,10,19),(2,19,37)); lvl=6; h,r-ind=1,1
    [3,3]((1,10,18),(2,20,37),(2,19,35)); lvl=4; h,r-ind=1,1
    [4,3]((3,27,50),(1,9,16),(2,17,31),(4,35,65)); lvl=4; h,r-ind=2,1
      [4,3]((2,18,33),(3,26,48),(1,9,16),(2,17,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,31),(3,26,48),(4,35,64)); lvl=6; h,r-ind=1,1
        [3,3]((2,18,33),(3,26,48),(4,35,64)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,16),(2,18,33),(4,35,64)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,16),(2,17,31),(4,35,64)); lvl=6; h,r-ind=1,1
      [4,3]((3,27,50),(2,18,33),(3,26,48),(4,35,65)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,33),(3,26,48),(6,53,98)); lvl=6; h,r-ind=1,1
        [3,3]((4,35,65),(3,26,48),(6,53,98)); lvl=6; h,r-ind=1,1
        [3,3]((3,27,50),(2,18,33),(6,53,98)); lvl=6; h,r-ind=1,1
        [3,3]((4,35,65),(3,27,50),(6,53,98)); lvl=6; h,r-ind=1,1
    [4,3]((1,10,18),(2,19,35),(3,27,50),(1,9,16)); lvl=4; h,r-ind=1,1
      [4,3]((2,19,35),(5,47,86),(3,27,50),(2,18,33)); lvl=5; h,r-ind=1,2; alert-r-inc
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          [3,3]((3,27,50),(4,37,68),(2,18,33)); lvl=6; h,r-ind=1,1
          [3,3]((5,47,86),(4,37,68),(2,18,33)); lvl=6; h,r-ind=1,1
          [3,3]((2,19,35),(3,27,50),(4,37,68)); lvl=6; h,r-ind=1,1
          [3,3]((5,47,86),(2,19,35),(4,37,68)); lvl=6; h,r-ind=1,1
        [4,3]((1,9,16),(1,10,18),(5,47,86),(2,18,33)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,28,51),(5,47,86),(1,10,18)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,16),(3,28,51),(1,10,18)); lvl=6; h,r-ind=1,1
          [3,3]((2,18,33),(1,9,16),(3,28,51)); lvl=6; h,r-ind=1,1
          [3,3]((2,18,33),(3,28,51),(5,47,86)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,18),(2,19,35),(5,47,86)); lvl=5; h,r-ind=1,1
      [3,3]((2,20,35),(1,10,18),(1,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,16),(2,17,31),(4,34,61)); lvl=4; h,r-ind=1,1
[3,3]((1,5,10),(2,15,30),(2,15,25)); lvl=2; h,r-ind=25,5
  [4,3]((1,7,13),(1,7,14),(2,15,30),(4,30,55)); lvl=3; h,r-ind=1,1
    [4,3]((5,36,69),(1,7,14),(4,30,57),(2,15,30)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,7,14),(7,51,99),(2,15,29),(2,15,30)); lvl=5; h,r-ind=1,3
        [3,3]((3,22,43),(2,15,29),(7,51,99)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,14),(3,22,43),(7,51,99)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,30),(3,22,43),(2,15,29)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,14),(2,15,30),(3,22,43)); lvl=6; h,r-ind=1,1
      [3,3]((3,22,42),(7,51,99),(2,15,29)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,7,14),(5,36,69),(3,22,42),(7,51,99)); lvl=5; h,r-ind=1,3
        [3,3]((4,29,56),(5,36,69),(3,22,42)); lvl=6; h,r-ind=1,1
        [3,3]((7,51,99),(4,29,56),(3,22,42)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,14),(7,51,99),(4,29,56)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,14),(4,29,56),(5,36,69)); lvl=6; h,r-ind=1,1
      [3,3]((3,22,42),(2,15,29),(4,30,57)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,13),(5,36,69),(2,15,28),(4,30,57)); lvl=4; h,r-ind=1,1
      [4,3]((3,22,42),(6,44,83),(2,15,28),(4,30,57)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((6,44,83),(5,37,70),(2,15,28)); lvl=6; h,r-ind=1,1
        [3,3]((4,30,57),(5,37,70),(2,15,28)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,42),(4,30,57),(5,37,70)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,42),(6,44,83),(5,37,70)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,13),(3,22,42),(6,44,83)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,13),(3,22,42),(5,36,69)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,13),(6,44,83),(2,15,28)); lvl=5; h,r-ind=1,1
    [3,3]((4,30,55),(1,7,13),(2,15,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,13),(5,36,69),(1,7,14)); lvl=4; h,r-ind=1,1
  [4,3]((2,15,25),(1,7,12),(1,7,13),(4,30,55)); lvl=3; h,r-ind=1,1
    [3,3]((5,36,64),(1,7,13),(1,7,12)); lvl=4; h,r-ind=1,1
    [4,3]((2,15,25),(4,30,53),(5,36,64),(1,7,12)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,7,12),(7,51,89),(3,22,39),(5,36,64)); lvl=5; h,r-ind=1,3
        [3,3]((4,29,51),(7,51,89),(3,22,39)); lvl=6; h,r-ind=1,1
        [3,3]((5,36,64),(4,29,51),(3,22,39)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,12),(5,36,64),(4,29,51)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,12),(4,29,51),(7,51,89)); lvl=6; h,r-ind=1,1
      [3,3]((2,15,26),(7,51,89),(3,22,39)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,15,26),(4,30,53),(3,22,39)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,12),(2,15,25),(2,15,26),(7,51,89)); lvl=5; h,r-ind=1,3
        [3,3]((2,15,25),(3,22,38),(2,15,26)); lvl=6; h,r-ind=1,1
        [3,3]((7,51,89),(3,22,38),(2,15,26)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,12),(7,51,89),(3,22,38)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,12),(2,15,25),(3,22,38)); lvl=6; h,r-ind=1,1
    [4,3]((2,15,27),(4,30,53),(5,36,64),(1,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,13),(5,36,64),(3,22,39)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,13),(6,44,79),(3,22,39)); lvl=5; h,r-ind=1,1
      [4,3]((2,15,27),(4,30,53),(6,44,79),(3,22,39)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,37,66),(3,22,39),(6,44,79)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,27),(5,37,66),(6,44,79)); lvl=6; h,r-ind=1,1
        [3,3]((4,30,53),(5,37,66),(3,22,39)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,27),(4,30,53),(5,37,66)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,13),(2,15,27),(6,44,79)); lvl=5; h,r-ind=1,1
    [3,3]((4,30,55),(2,15,27),(1,7,13)); lvl=4; h,r-ind=1,1
  [3,3]((1,7,12),(2,13,23),(1,7,13)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,13),(2,13,26),(1,7,14)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,10),(2,13,23),(1,7,13),(2,13,26)); lvl=3; h,r-ind=3,3
    [4,3]((1,7,13),(2,13,23),(1,6,11),(4,26,49)); lvl=4; h,r-ind=1,3
      [3,3]((2,13,24),(1,6,11),(2,13,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,13),(2,13,24),(2,13,23)); lvl=5; h,r-ind=1,1
      [3,3]((4,26,49),(2,13,24),(1,6,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,13),(4,26,49),(2,13,24)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,12),(1,6,11),(4,26,49)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,5,10),(1,6,12),(1,6,11)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,26),(1,6,12),(1,7,13),(4,26,49)); lvl=4; h,r-ind=1,3
      [3,3]((2,13,25),(1,6,12),(4,26,49)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,13),(2,13,25),(4,26,49)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,26),(2,13,25),(1,6,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,13),(2,13,26),(2,13,25)); lvl=5; h,r-ind=1,1
[4,3]((1,10,10),(2,15,20),(1,10,15),(2,15,25)); lvl=2; h,r-ind=25,5
  [4,3]((2,16,23),(1,8,10),(2,15,20),(4,30,45)); lvl=3; h,r-ind=1,1
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  [4,3]((1,8,11),(1,8,10),(4,30,43),(2,15,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,10),(2,15,21),(2,15,20),(4,31,42)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,23,31),(2,15,20),(2,15,21)); lvl=6; h,r-ind=1,1
      [3,3]((4,31,42),(3,23,31),(2,15,21)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,10),(4,31,42),(3,23,31)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,10),(3,23,31),(2,15,20)); lvl=6; h,r-ind=1,1
    [3,3]((1,8,11),(1,8,10),(4,31,42)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,11),(2,15,21),(4,31,42)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,11),(2,15,21),(4,30,43)); lvl=5; h,r-ind=1,1
  [3,3]((1,8,11),(4,30,43),(2,15,22)); lvl=4; h,r-ind=1,1
  [3,3]((3,23,34),(1,8,11),(2,15,22)); lvl=4; h,r-ind=1,1
  [3,3]((2,16,23),(3,23,34),(1,8,11)); lvl=4; h,r-ind=1,1
  [3,3]((4,30,45),(3,23,34),(2,15,22)); lvl=4; h,r-ind=1,1
[4,3]((2,16,23),(1,8,13),(2,15,25),(4,30,45)); lvl=3; h,r-ind=1,1
  [4,3]((1,8,12),(1,8,13),(2,15,25),(4,30,47)); lvl=4; h,r-ind=1,1
    [4,3]((4,31,49),(1,8,13),(2,15,24),(2,15,25)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,23,37),(2,15,24),(2,15,25)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,13),(3,23,37),(2,15,25)); lvl=6; h,r-ind=1,1
      [3,3]((4,31,49),(3,23,37),(2,15,24)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,13),(4,31,49),(3,23,37)); lvl=6; h,r-ind=1,1
    [3,3]((1,8,12),(4,31,49),(2,15,24)); lvl=5; h,r-ind=1,1
    [3,3]((4,30,47),(1,8,12),(2,15,24)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,12),(4,31,49),(1,8,13)); lvl=5; h,r-ind=1,1
  [3,3]((1,8,12),(2,15,23),(4,30,47)); lvl=4; h,r-ind=1,1
  [3,3]((1,8,12),(2,15,23),(3,23,34)); lvl=4; h,r-ind=1,1
  [3,3]((4,30,45),(2,15,23),(3,23,34)); lvl=4; h,r-ind=1,1
  [3,3]((2,16,23),(1,8,12),(3,23,34)); lvl=4; h,r-ind=1,1
[4,3]((2,16,23),(4,34,47),(2,17,27),(1,8,13)); lvl=3; h,r-ind=1,1
  [4,3]((1,8,12),(1,8,13),(2,17,27),(2,17,25)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,13),(4,33,51),(2,17,26),(2,17,27)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,25,39),(2,17,26),(4,33,51)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,13),(3,25,39),(4,33,51)); lvl=6; h,r-ind=1,1
      [3,3]((2,17,27),(3,25,39),(2,17,26)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,13),(2,17,27),(3,25,39)); lvl=6; h,r-ind=1,1
    [3,3]((1,8,12),(1,8,13),(4,33,51)); lvl=5; h,r-ind=1,1
    [4,3]((2,17,25),(1,8,12),(4,33,51),(2,17,26)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,25,38),(4,33,51),(1,8,12)); lvl=6; h,r-ind=1,1
      [3,3]((2,17,25),(3,25,38),(1,8,12)); lvl=6; h,r-ind=1,1
      [3,3]((3,25,38),(2,17,26),(4,33,51)); lvl=6; h,r-ind=1,1
      [3,3]((2,17,25),(3,25,38),(2,17,26)); lvl=6; h,r-ind=1,1
  [3,3]((1,8,12),(2,17,24),(2,17,25)); lvl=4; h,r-ind=1,1
  [3,3]((1,8,12),(3,25,35),(2,17,24)); lvl=4; h,r-ind=1,1
  [3,3]((3,25,35),(4,34,47),(2,17,24)); lvl=4; h,r-ind=1,1
  [3,3]((2,16,23),(1,8,12),(3,25,35)); lvl=4; h,r-ind=1,1
[4,3]((2,20,25),(4,34,47),(1,10,15),(2,17,27)); lvl=3; h,r-ind=3,1
  [5,3]((2,17,25),(1,9,14),(3,27,38),(4,35,50),(2,17,27)); lvl=4; h,r-ind=1,1
    [3,3]((7,61,88),(4,35,50),(2,17,25)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,13),(7,61,88),(2,17,25)); lvl=5; h,r-ind=1,1
    [3,3]((2,17,26),(1,9,13),(2,17,25)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,14),(2,17,27),(2,17,26),(1,9,13)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,27),(2,17,26),(3,26,40)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,13),(2,17,26),(3,26,40)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,14),(1,9,13),(3,26,40)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,14),(2,17,27),(3,26,40)); lvl=6; h,r-ind=1,1
    [4,3]((1,9,13),(3,27,38),(7,61,88),(4,35,50)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((5,44,63),(4,35,50),(3,27,38)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,13),(5,44,63),(3,27,38)); lvl=6; h,r-ind=1,1
      [3,3]((5,44,63),(7,61,88),(4,35,50)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,13),(5,44,63),(7,61,88)); lvl=6; h,r-ind=1,1
  [3,3]((2,17,25),(2,17,24),(4,35,50)); lvl=4; h,r-ind=2,2; alert-r-inc; optimized-h
  [5,3]((2,20,27),(2,19,26),(1,10,15),(1,9,14),(3,27,38)); lvl=4; h,r-ind=1,1
    [4,3]((6,57,79),(3,27,38),(1,9,13),(2,19,26)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((3,28,39),(1,9,13),(3,27,38)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,26),(3,28,39),(3,27,38)); lvl=6; h,r-ind=1,1
      [3,3]((6,57,79),(2,19,26),(3,28,39)); lvl=6; h,r-ind=1,1
      [3,3]((6,57,79),(3,28,39),(1,9,13)); lvl=6; h,r-ind=1,1
    [4,3]((2,20,27),(6,57,79),(3,29,40),(2,19,26)); lvl=5; h,r-ind=1,1
      [3,3]((3,29,40),(6,57,79),(5,48,66)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,26),(6,57,79),(5,48,66)); lvl=6; h,r-ind=1,1
      [3,3]((2,20,27),(3,29,40),(5,48,66)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,26),(2,20,27),(5,48,66)); lvl=6; h,r-ind=1,1
    [4,3]((1,10,14),(6,57,79),(3,29,40),(1,9,13)); lvl=5; h,r-ind=1,1
      [3,3]((4,38,53),(3,29,40),(6,57,79)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,13),(4,38,53),(6,57,79)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,14),(1,9,13),(4,38,53)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,14),(4,38,53),(3,29,40)); lvl=6; h,r-ind=1,1
    [4,3]((1,10,14),(1,10,15),(1,9,14),(1,9,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,10,15),(1,9,14),(2,19,28)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,13),(1,9,14),(2,19,28)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,14),(1,10,15),(2,19,28)); lvl=6; h,r-ind=1,1
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      [3,3]((1,9,13),(1,10,14),(2,19,28)); lvl=6; h,r-ind=1,1
    [3,3]((2,20,27),(1,10,14),(3,29,40)); lvl=5; h,r-ind=1,1
  [3,3]((1,10,13),(2,20,27),(2,19,26)); lvl=4; h,r-ind=1,1
  [4,3]((1,9,12),(2,17,24),(3,27,38),(4,35,50)); lvl=4; h,r-ind=2,1
    [4,3]((3,27,38),(2,18,25),(4,35,50),(3,26,37)); lvl=5; h,r-ind=1,1
      [3,3]((2,18,25),(3,26,37),(6,53,75)); lvl=6; h,r-ind=1,1
      [3,3]((4,35,50),(3,26,37),(6,53,75)); lvl=6; h,r-ind=1,1
      [3,3]((3,27,38),(2,18,25),(6,53,75)); lvl=6; h,r-ind=1,1
      [3,3]((4,35,50),(3,27,38),(6,53,75)); lvl=6; h,r-ind=1,1
    [4,3]((1,9,12),(2,18,25),(2,17,24),(3,26,37)); lvl=5; h,r-ind=1,1
      [3,3]((2,18,25),(3,26,37),(4,35,49)); lvl=6; h,r-ind=1,1
      [3,3]((2,17,24),(3,26,37),(4,35,49)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,12),(2,17,24),(4,35,49)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,12),(2,18,25),(4,35,49)); lvl=6; h,r-ind=1,1
  [4,3]((1,10,13),(2,19,26),(1,9,12),(3,27,38)); lvl=4; h,r-ind=1,1
    [4,3]((2,19,26),(5,47,64),(3,27,38),(2,18,25)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((4,37,51),(2,18,25),(3,27,38)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,26),(4,37,51),(3,27,38)); lvl=6; h,r-ind=1,1
      [3,3]((4,37,51),(5,47,64),(2,18,25)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,26),(4,37,51),(5,47,64)); lvl=6; h,r-ind=1,1
    [4,3]((1,10,13),(5,47,64),(1,9,12),(2,18,25)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,28,38),(1,9,12),(2,18,25)); lvl=6; h,r-ind=1,1
      [3,3]((5,47,64),(3,28,38),(2,18,25)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,13),(5,47,64),(3,28,38)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,13),(3,28,38),(1,9,12)); lvl=6; h,r-ind=1,1
    [3,3]((1,10,13),(2,19,26),(5,47,64)); lvl=5; h,r-ind=1,1
  [3,3]((2,20,25),(1,10,13),(1,9,12)); lvl=4; h,r-ind=1,1
  [3,3]((1,9,12),(2,17,24),(4,34,47)); lvl=4; h,r-ind=1,1
[4,3]((2,16,23),(2,17,20),(4,34,47),(1,8,10)); lvl=3; h,r-ind=1,1
  [4,3]((1,8,11),(1,8,10),(2,17,22),(2,17,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,10),(4,33,42),(2,17,21),(2,17,20)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,17,21),(4,33,42),(3,25,31)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,10),(4,33,42),(3,25,31)); lvl=6; h,r-ind=1,1
      [3,3]((2,17,20),(2,17,21),(3,25,31)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,10),(2,17,20),(3,25,31)); lvl=6; h,r-ind=1,1
    [3,3]((1,8,11),(1,8,10),(4,33,42)); lvl=5; h,r-ind=1,1
    [4,3]((1,8,11),(4,33,42),(2,17,22),(2,17,21)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,17,21),(2,17,22),(3,25,32)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,11),(2,17,22),(3,25,32)); lvl=6; h,r-ind=1,1
      [3,3]((4,33,42),(2,17,21),(3,25,32)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,11),(4,33,42),(3,25,32)); lvl=6; h,r-ind=1,1
  [3,3]((1,8,11),(2,17,23),(2,17,22)); lvl=4; h,r-ind=1,1
  [3,3]((1,8,11),(3,25,35),(2,17,23)); lvl=4; h,r-ind=1,1
  [3,3]((1,8,11),(2,16,23),(3,25,35)); lvl=4; h,r-ind=1,1
  [3,3]((3,25,35),(2,17,23),(4,34,47)); lvl=4; h,r-ind=1,1
[4,3]((1,10,10),(2,20,25),(2,17,20),(4,34,47)); lvl=3; h,r-ind=3,1
  [3,3]((2,17,23),(4,35,45),(2,17,22)); lvl=4; h,r-ind=2,2; alert-r-inc; optimized-h
  [5,3]((1,9,10),(3,27,34),(2,17,20),(4,35,45),(2,17,22)); lvl=4; h,r-ind=1,1
    [3,3]((2,17,22),(4,35,45),(7,61,78)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,11),(3,27,34),(4,35,45),(7,61,78)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,27,34),(5,44,56),(4,35,45)); lvl=6; h,r-ind=1,1
      [3,3]((7,61,78),(5,44,56),(4,35,45)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,11),(7,61,78),(5,44,56)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,11),(3,27,34),(5,44,56)); lvl=6; h,r-ind=1,1
    [3,3]((1,9,11),(2,17,22),(7,61,78)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,11),(2,17,22),(2,17,21)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,10),(1,9,11),(2,17,20),(2,17,21)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,20),(2,17,21),(3,26,31)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,11),(2,17,21),(3,26,31)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,10),(2,17,20),(3,26,31)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,11),(1,9,10),(3,26,31)); lvl=6; h,r-ind=1,1
  [5,3]((1,9,10),(1,10,10),(2,19,23),(2,20,23),(3,27,34)); lvl=4; h,r-ind=1,1
    [4,3]((1,9,10),(1,9,11),(1,10,11),(1,10,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,11),(1,10,11),(2,19,21)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,10),(1,10,11),(2,19,21)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,10),(1,9,11),(2,19,21)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,10),(1,9,10),(2,19,21)); lvl=6; h,r-ind=1,1
    [4,3]((6,57,68),(3,29,34),(1,9,11),(1,10,11)); lvl=5; h,r-ind=1,1
      [3,3]((4,38,45),(3,29,34),(1,10,11)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,11),(4,38,45),(1,10,11)); lvl=6; h,r-ind=1,1
      [3,3]((6,57,68),(4,38,45),(3,29,34)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,11),(6,57,68),(4,38,45)); lvl=6; h,r-ind=1,1
    [3,3]((3,29,34),(2,20,23),(1,10,11)); lvl=5; h,r-ind=1,1
    [4,3]((6,57,68),(3,29,34),(2,20,23),(2,19,23)); lvl=5; h,r-ind=1,1
      [3,3]((5,48,57),(3,29,34),(2,20,23)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,23),(5,48,57),(2,20,23)); lvl=6; h,r-ind=1,1
      [3,3]((6,57,68),(2,19,23),(5,48,57)); lvl=6; h,r-ind=1,1
      [3,3]((6,57,68),(5,48,57),(3,29,34)); lvl=6; h,r-ind=1,1
    [4,3]((6,57,68),(3,27,34),(1,9,11),(2,19,23)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((1,9,11),(3,27,34),(3,28,34)); lvl=6; h,r-ind=1,1
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          [3,3]((2,19,23),(3,27,34),(3,28,34)); lvl=6; h,r-ind=1,1
          [3,3]((6,57,68),(2,19,23),(3,28,34)); lvl=6; h,r-ind=1,1
          [3,3]((6,57,68),(1,9,11),(3,28,34)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,12),(2,19,23),(2,20,23)); lvl=4; h,r-ind=1,1
      [4,3]((3,27,34),(1,9,12),(2,17,23),(4,35,45)); lvl=4; h,r-ind=2,1
        [4,3]((1,9,12),(2,18,23),(2,17,23),(3,26,34)); lvl=5; h,r-ind=1,1
          [3,3]((2,18,23),(3,26,34),(4,35,46)); lvl=6; h,r-ind=1,1
          [3,3]((2,17,23),(3,26,34),(4,35,46)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,12),(2,18,23),(4,35,46)); lvl=6; h,r-ind=1,1
          [3,3]((2,17,23),(1,9,12),(4,35,46)); lvl=6; h,r-ind=1,1
        [4,3]((4,35,45),(3,27,34),(2,18,23),(3,26,34)); lvl=5; h,r-ind=1,1
          [3,3]((2,18,23),(3,27,34),(6,53,68)); lvl=6; h,r-ind=1,1
          [3,3]((4,35,45),(3,27,34),(6,53,68)); lvl=6; h,r-ind=1,1
          [3,3]((3,26,34),(4,35,45),(6,53,68)); lvl=6; h,r-ind=1,1
          [3,3]((3,26,34),(2,18,23),(6,53,68)); lvl=6; h,r-ind=1,1
      [4,3]((1,10,12),(2,19,23),(3,27,34),(1,9,12)); lvl=4; h,r-ind=1,1
        [4,3]((2,19,23),(5,47,58),(2,18,23),(3,27,34)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,18,23),(5,47,58),(4,37,46)); lvl=6; h,r-ind=1,1
          [3,3]((2,19,23),(5,47,58),(4,37,46)); lvl=6; h,r-ind=1,1
          [3,3]((3,27,34),(2,19,23),(4,37,46)); lvl=6; h,r-ind=1,1
          [3,3]((3,27,34),(2,18,23),(4,37,46)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,12),(2,19,23),(5,47,58)); lvl=5; h,r-ind=1,1
        [4,3]((1,9,12),(1,10,12),(5,47,58),(2,18,23)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((1,10,12),(5,47,58),(3,28,35)); lvl=6; h,r-ind=1,1
          [3,3]((2,18,23),(5,47,58),(3,28,35)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,12),(1,10,12),(3,28,35)); lvl=6; h,r-ind=1,1
          [3,3]((2,18,23),(1,9,12),(3,28,35)); lvl=6; h,r-ind=1,1
      [3,3]((2,20,25),(1,10,12),(1,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,12),(4,34,47),(2,17,23)); lvl=4; h,r-ind=1,1
[3,3]((1,5,10),(2,15,20),(2,15,25)); lvl=2; h,r-ind=25,5
  [4,3]((4,30,45),(1,7,11),(1,7,10),(2,15,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,11),(1,7,10),(5,36,53)); lvl=4; h,r-ind=1,1
    [4,3]((2,15,20),(4,30,43),(1,7,10),(5,36,53)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((7,51,73),(1,7,10),(5,36,53),(3,22,32)); lvl=5; h,r-ind=1,3
        [3,3]((4,29,42),(5,36,53),(1,7,10)); lvl=6; h,r-ind=1,1
        [3,3]((7,51,73),(4,29,42),(1,7,10)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,32),(7,51,73),(4,29,42)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,32),(4,29,42),(5,36,53)); lvl=6; h,r-ind=1,1
      [3,3]((2,15,21),(7,51,73),(3,22,32)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,15,21),(4,30,43),(3,22,32)); lvl=5; h,r-ind=1,1
      [4,3]((2,15,21),(2,15,20),(7,51,73),(1,7,10)); lvl=5; h,r-ind=1,3
        [3,3]((2,15,20),(3,22,31),(1,7,10)); lvl=6; h,r-ind=1,1
        [3,3]((7,51,73),(3,22,31),(1,7,10)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,21),(7,51,73),(3,22,31)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,21),(2,15,20),(3,22,31)); lvl=6; h,r-ind=1,1
    [4,3]((2,15,22),(4,30,43),(1,7,11),(5,36,53)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(3,22,32),(5,36,53)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,11),(6,44,65),(3,22,32)); lvl=5; h,r-ind=1,1
      [4,3]((2,15,22),(6,44,65),(4,30,43),(3,22,32)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,37,54),(3,22,32),(6,44,65)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,22),(5,37,54),(6,44,65)); lvl=6; h,r-ind=1,1
        [3,3]((4,30,43),(5,37,54),(3,22,32)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,22),(4,30,43),(5,37,54)); lvl=6; h,r-ind=1,1
      [3,3]((2,15,22),(1,7,11),(6,44,65)); lvl=5; h,r-ind=1,1
    [3,3]((2,15,22),(4,30,45),(1,7,11)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,12),(2,15,25),(4,30,45),(1,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,11),(4,30,45),(2,15,23)); lvl=4; h,r-ind=1,1
    [4,3]((5,36,58),(1,7,11),(4,30,47),(2,15,23)); lvl=4; h,r-ind=1,1
      [4,3]((3,22,35),(6,44,69),(2,15,23),(4,30,47)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((6,44,69),(5,37,58),(2,15,23)); lvl=6; h,r-ind=1,1
        [3,3]((4,30,47),(5,37,58),(2,15,23)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,35),(4,30,47),(5,37,58)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,35),(6,44,69),(5,37,58)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,11),(3,22,35),(6,44,69)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,11),(5,36,58),(3,22,35)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,11),(6,44,69),(2,15,23)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,12),(5,36,58),(1,7,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,12),(5,36,58),(2,15,25),(4,30,47)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((2,15,24),(3,22,35),(7,51,83)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,7,12),(2,15,25),(2,15,24),(7,51,83)); lvl=5; h,r-ind=1,3
        [3,3]((3,22,36),(2,15,24),(2,15,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,12),(3,22,36),(2,15,25)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,36),(7,51,83),(2,15,24)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,12),(3,22,36),(7,51,83)); lvl=6; h,r-ind=1,1
      [4,3]((1,7,12),(5,36,58),(3,22,35),(7,51,83)); lvl=5; h,r-ind=1,3
        [3,3]((3,22,35),(4,29,47),(5,36,58)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,12),(4,29,47),(5,36,58)); lvl=6; h,r-ind=1,1
        [3,3]((7,51,83),(3,22,35),(4,29,47)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,12),(7,51,83),(4,29,47)); lvl=6; h,r-ind=1,1
      [3,3]((2,15,24),(3,22,35),(4,30,47)); lvl=5; h,r-ind=1,1
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    [3,3]((1,7,11),(2,13,20),(1,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,10),(2,13,23),(1,7,11),(2,13,20)); lvl=3; h,r-ind=3,3
      [4,3]((1,6,11),(4,26,43),(1,7,11),(2,13,23)); lvl=4; h,r-ind=1,3
        [3,3]((2,13,22),(4,26,43),(1,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,23),(2,13,22),(1,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(2,13,23),(2,13,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(2,13,22),(4,26,43)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,11),(1,6,10),(4,26,43)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((1,5,10),(1,6,11),(1,6,10)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,20),(1,6,10),(4,26,43),(1,7,11)); lvl=4; h,r-ind=1,3
        [3,3]((1,6,10),(4,26,43),(2,13,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,11),(4,26,43),(2,13,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,20),(1,6,10),(2,13,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,11),(2,13,20),(2,13,21)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,12),(2,13,23),(1,7,11)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(1,10,10),(1,5,10)); lvl=1; h,r-ind=50,10; alert-h-inc
  [4,3]((2,5,10),(1,5,5),(2,10,15),(1,0,0)); lvl=2; h,r-ind=25,5
    [4,3]((2,7,11),(4,13,19),(2,10,13),(1,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,7),(1,4,6),(2,10,13),(2,8,11)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,6),(4,18,25),(2,9,12),(2,8,11)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,12),(4,18,25),(3,13,18)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,6),(4,18,25),(3,13,18)); lvl=6; h,r-ind=1,1
          [3,3]((2,8,11),(2,9,12),(3,13,18)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,6),(2,8,11),(3,13,18)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,7),(1,4,6),(4,18,25)); lvl=5; h,r-ind=1,1
        [4,3]((2,10,13),(1,5,7),(4,18,25),(2,9,12)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,19),(1,5,7),(4,18,25)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,12),(3,14,19),(4,18,25)); lvl=6; h,r-ind=1,1
          [3,3]((2,10,13),(3,14,19),(1,5,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,12),(2,10,13),(3,14,19)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,10),(2,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,15),(1,4,6),(2,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,15),(2,7,11),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,15),(4,13,19),(2,7,10)); lvl=4; h,r-ind=1,1
    [4,3]((4,15,25),(2,7,11),(2,10,15),(1,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((4,17,27),(1,4,6),(1,5,7),(2,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,27),(1,5,7),(1,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,14),(4,18,27),(1,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,27),(2,9,14),(1,4,6)); lvl=5; h,r-ind=1,1
        [4,3]((2,9,14),(4,18,27),(2,10,15),(1,5,7)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,21),(1,5,7),(2,10,15)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,14),(3,14,21),(2,10,15)); lvl=6; h,r-ind=1,1
          [3,3]((3,14,21),(4,18,27),(1,5,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,14),(3,14,21),(4,18,27)); lvl=6; h,r-ind=1,1
      [3,3]((2,8,13),(4,17,27),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,18),(2,8,13),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,18),(1,4,6),(2,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,18),(4,15,25),(2,8,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(2,3,6),(2,7,11),(4,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,6,9),(2,5,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,4),(1,3,5),(2,3,6),(2,5,8)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,5),(4,9,16),(2,4,7),(2,5,8)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,9,16),(3,7,12),(2,4,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,8),(3,7,12),(2,4,7)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,5),(4,9,16),(3,7,12)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,8),(1,3,5),(3,7,12)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,4),(1,3,5),(4,9,16)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,6),(1,2,4),(4,9,16),(2,4,7)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,6,11),(1,2,4),(4,9,16)); lvl=6; h,r-ind=1,1
          [3,3]((2,4,7),(3,6,11),(4,9,16)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,6),(3,6,11),(1,2,4)); lvl=6; h,r-ind=1,1
          [3,3]((2,4,7),(2,3,6),(3,6,11)); lvl=6; h,r-ind=1,1
      [3,3]((1,3,5),(3,10,15),(2,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,15),(4,13,19),(2,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(3,10,15),(2,7,11)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,10),(4,15,25),(1,2,4),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(3,11,18),(2,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,12),(3,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,12),(4,15,25),(3,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,23),(1,3,5),(2,7,12)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,10),(4,13,23),(1,2,4),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,11),(1,3,5),(4,13,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,11),(4,11,20),(1,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(4,11,20),(1,3,5)); lvl=5; h,r-ind=1,1
        [4,3]((2,6,11),(2,5,10),(1,2,4),(4,11,20)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,8,15),(1,2,4),(2,5,10)); lvl=6; h,r-ind=1,1
          [3,3]((2,6,11),(3,8,15),(2,5,10)); lvl=6; h,r-ind=1,1
          [3,3]((4,11,20),(3,8,15),(1,2,4)); lvl=6; h,r-ind=1,1
          [3,3]((2,6,11),(4,11,20),(3,8,15)); lvl=6; h,r-ind=1,1
    [4,3]((2,5,5),(4,13,19),(1,5,5),(2,10,13)); lvl=3; h,r-ind=3,1
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    [5,3]((3,11,14),(2,8,11),(4,15,20),(1,5,6),(2,10,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,5),(2,9,12),(2,10,13),(1,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,12),(2,10,13),(3,14,18)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,6),(2,10,13),(3,14,18)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(2,9,12),(3,14,18)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,6),(1,4,5),(3,14,18)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,5),(2,8,11),(2,9,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,5),(7,27,36),(2,8,11)); lvl=5; h,r-ind=1,1
      [3,3]((4,15,20),(7,27,36),(2,8,11)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,5),(3,11,14),(4,15,20),(7,27,36)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,14),(5,19,25),(4,15,20)); lvl=6; h,r-ind=1,1
        [3,3]((7,27,36),(5,19,25),(4,15,20)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(7,27,36),(5,19,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(3,11,14),(5,19,25)); lvl=6; h,r-ind=1,1
    [3,3]((2,7,10),(2,8,11),(4,15,20)); lvl=4; h,r-ind=2,2; alert-r-inc; optimized-h
    [4,3]((3,11,14),(1,3,4),(2,7,10),(4,15,20)); lvl=4; h,r-ind=2,1
      [4,3]((2,7,9),(1,3,4),(3,11,15),(2,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,19),(2,7,10),(1,3,4)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,9),(4,14,19),(1,3,4)); lvl=6; h,r-ind=1,1
        [3,3]((3,11,15),(4,14,19),(2,7,10)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,9),(3,11,15),(4,14,19)); lvl=6; h,r-ind=1,1
      [4,3]((4,15,20),(3,11,14),(2,7,9),(3,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,14),(2,7,9),(6,22,29)); lvl=6; h,r-ind=1,1
        [3,3]((3,11,15),(2,7,9),(6,22,29)); lvl=6; h,r-ind=1,1
        [3,3]((4,15,20),(3,11,15),(6,22,29)); lvl=6; h,r-ind=1,1
        [3,3]((4,15,20),(3,11,14),(6,22,29)); lvl=6; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,10),(4,13,19)); lvl=4; h,r-ind=1,1
    [5,3]((2,7,7),(2,7,8),(3,11,14),(1,5,5),(1,5,6)); lvl=4; h,r-ind=1,1
      [4,3]((6,22,25),(2,7,8),(1,4,5),(3,11,14)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((3,11,13),(2,7,8),(3,11,14)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(3,11,13),(3,11,14)); lvl=6; h,r-ind=1,1
        [3,3]((6,22,25),(3,11,13),(2,7,8)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(6,22,25),(3,11,13)); lvl=6; h,r-ind=1,1
      [4,3]((2,7,7),(3,11,12),(6,22,25),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((5,18,20),(3,11,12),(6,22,25)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,8),(5,18,20),(6,22,25)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,7),(5,18,20),(3,11,12)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,8),(2,7,7),(5,18,20)); lvl=6; h,r-ind=1,1
      [4,3]((3,11,12),(6,22,25),(1,4,4),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(4,15,17),(1,4,4)); lvl=6; h,r-ind=1,1
        [3,3]((3,11,12),(4,15,17),(1,4,4)); lvl=6; h,r-ind=1,1
        [3,3]((3,11,12),(6,22,25),(4,15,17)); lvl=6; h,r-ind=1,1
        [3,3]((6,22,25),(1,4,5),(4,15,17)); lvl=6; h,r-ind=1,1
      [4,3]((1,5,5),(1,4,4),(1,5,6),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(1,4,5),(2,9,10)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,6),(1,4,5),(2,9,10)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,5),(1,5,6),(2,9,10)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,5),(1,4,4),(2,9,10)); lvl=6; h,r-ind=1,1
      [3,3]((2,7,7),(3,11,12),(1,4,4)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,3),(2,7,7),(2,7,8)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,3),(2,7,8),(3,11,14),(1,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,8),(5,17,20),(3,11,14),(2,7,9)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,14,17),(2,7,9),(5,17,20)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,8),(4,14,17),(5,17,20)); lvl=6; h,r-ind=1,1
        [3,3]((3,11,14),(4,14,17),(2,7,9)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,8),(3,11,14),(4,14,17)); lvl=6; h,r-ind=1,1
      [4,3]((1,3,4),(1,3,3),(5,17,20),(2,7,9)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,3),(5,17,20),(3,10,12)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,9),(5,17,20),(3,10,12)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(1,3,3),(3,10,12)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,9),(1,3,4),(3,10,12)); lvl=6; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,8),(5,17,20)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,5),(1,3,4)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,6),(2,5,5),(4,13,19)); lvl=3; h,r-ind=3,1
    [3,3]((2,6,9),(1,3,4),(4,13,19)); lvl=4; h,r-ind=1,1
    [4,3]((2,6,9),(3,7,10),(4,10,15),(1,3,4)); lvl=4; h,r-ind=2,1
      [4,3]((3,8,12),(2,5,7),(4,10,15),(3,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,7),(3,7,10),(6,15,22)); lvl=6; h,r-ind=1,1
        [3,3]((4,10,15),(3,7,10),(6,15,22)); lvl=6; h,r-ind=1,1
        [3,3]((3,8,12),(2,5,7),(6,15,22)); lvl=6; h,r-ind=1,1
        [3,3]((4,10,15),(3,8,12),(6,15,22)); lvl=6; h,r-ind=1,1
      [4,3]((2,6,9),(3,8,12),(1,3,4),(2,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,7),(3,8,12),(4,11,16)); lvl=6; h,r-ind=1,1
        [3,3]((2,6,9),(3,8,12),(4,11,16)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(2,6,9),(4,11,16)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,7),(4,11,16)); lvl=6; h,r-ind=1,1
    [4,3]((1,2,2),(2,4,5),(3,7,10),(1,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((2,4,5),(5,11,14),(2,5,7),(3,7,10)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,9,12),(2,5,7),(5,11,14)); lvl=6; h,r-ind=1,1
        [3,3]((2,4,5),(4,9,12),(5,11,14)); lvl=6; h,r-ind=1,1
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          [3,3]((3,7,10),(4,9,12),(2,5,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,4,5),(3,7,10),(4,9,12)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(5,11,14)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,4),(1,2,2),(5,11,14),(2,5,7)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,7,9),(1,2,2),(5,11,14)); lvl=6; h,r-ind=1,1
          [3,3]((3,7,9),(2,5,7),(5,11,14)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(3,7,9),(2,5,7)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(3,7,9),(1,2,2)); lvl=6; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(1,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(2,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(2,5,8),(4,10,15)); lvl=4; h,r-ind=2,2; alert-r-inc; optimized-h
      [5,3]((1,1,2),(2,3,6),(3,7,10),(2,5,8),(4,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,26),(2,5,8),(4,10,15)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,3),(7,17,26),(3,7,10),(4,10,15)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,10,15),(5,12,18),(7,17,26)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(5,12,18),(7,17,26)); lvl=6; h,r-ind=1,1
          [3,3]((3,7,10),(1,2,3),(5,12,18)); lvl=6; h,r-ind=1,1
          [3,3]((3,7,10),(4,10,15),(5,12,18)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,3),(7,17,26),(2,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,7),(2,5,8)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,3),(1,1,2),(2,3,6),(2,4,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(2,3,6),(3,5,9)); lvl=6; h,r-ind=1,1
          [3,3]((2,4,7),(2,3,6),(3,5,9)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(2,4,7),(3,5,9)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(1,1,2),(3,5,9)); lvl=6; h,r-ind=1,1
      [5,3]((1,0,0),(2,3,3),(2,4,5),(1,1,2),(3,7,10)); lvl=4; h,r-ind=1,1
        [4,3]((2,4,5),(6,11,14),(1,2,3),(3,7,10)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((3,6,8),(6,11,14),(1,2,3)); lvl=6; h,r-ind=1,1
          [3,3]((3,7,10),(3,6,8),(1,2,3)); lvl=6; h,r-ind=1,1
          [3,3]((2,4,5),(3,7,10),(3,6,8)); lvl=6; h,r-ind=1,1
          [3,3]((2,4,5),(3,6,8),(6,11,14)); lvl=6; h,r-ind=1,1
        [4,3]((1,1,1),(3,5,6),(6,11,14),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,9),(3,5,6),(6,11,14)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(4,7,9),(6,11,14)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(1,2,3),(4,7,9)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(4,7,9),(3,5,6)); lvl=6; h,r-ind=1,1
        [4,3]((1,0,0),(1,1,1),(1,1,2),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(1,2,3),(2,2,3)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,2),(1,2,3),(2,2,3)); lvl=6; h,r-ind=1,1
          [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=6; h,r-ind=1,1
          [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=6; h,r-ind=1,1
        [4,3]((2,3,3),(2,4,5),(3,5,6),(6,11,14)); lvl=5; h,r-ind=1,1
          [3,3]((5,9,11),(6,11,14),(2,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,3),(5,9,11),(2,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((3,5,6),(5,9,11),(6,11,14)); lvl=6; h,r-ind=1,1
          [3,3]((3,5,6),(2,3,3),(5,9,11)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,1),(2,3,3),(3,5,6)); lvl=5; h,r-ind=1,1
  [3,3]((1,5,10),(2,5,10),(2,10,15)); lvl=2; h,r-ind=25,5
    [3,3]((1,4,7),(1,3,6),(2,7,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,10),(2,10,17),(1,4,7),(2,7,14)); lvl=3; h,r-ind=3,3
      [4,3]((1,5,9),(4,17,31),(1,4,7),(2,10,17)); lvl=4; h,r-ind=1,3
        [3,3]((1,4,7),(2,9,16),(4,17,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(2,9,16),(4,17,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,17),(1,5,9),(2,9,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,17),(1,4,7),(2,9,16)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,8),(4,17,31),(2,7,14),(1,4,7)); lvl=4; h,r-ind=1,3
        [3,3]((2,8,15),(1,4,7),(4,17,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(2,8,15),(4,17,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,14),(2,8,15),(1,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(2,7,14),(2,8,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,9),(4,17,31)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((1,4,8),(1,5,10),(1,5,9)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,17),(1,5,8),(1,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,7),(4,15,25),(2,5,10),(1,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,6),(5,17,31),(2,5,10),(4,13,23)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,3,6),(7,22,41),(3,10,18),(5,17,31)); lvl=5; h,r-ind=1,3
          [3,3]((7,22,41),(3,10,18),(4,13,24)); lvl=6; h,r-ind=1,1
          [3,3]((5,17,31),(3,10,18),(4,13,24)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,6),(7,22,41),(4,13,24)); lvl=6; h,r-ind=1,1
          [3,3]((5,17,31),(1,3,6),(4,13,24)); lvl=6; h,r-ind=1,1
        [3,3]((7,22,41),(2,6,11),(3,10,18)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,6,11),(4,13,23),(3,10,18)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,6),(7,22,41),(2,6,11),(2,5,10)); lvl=5; h,r-ind=1,3
          [3,3]((7,22,41),(2,6,11),(3,9,17)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,10),(2,6,11),(3,9,17)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,6),(2,5,10),(3,9,17)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,6),(7,22,41),(3,9,17)); lvl=6; h,r-ind=1,1
      [4,3]((1,4,7),(5,17,31),(2,7,12),(4,13,23)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,12),(3,10,18),(4,13,23),(6,21,37)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,17,30),(4,13,23),(3,10,18)); lvl=6; h,r-ind=1,1
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          [3,3]((6,21,37),(5,17,30),(3,10,18)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,12),(6,21,37),(5,17,30)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,12),(5,17,30),(4,13,23)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,7),(2,7,12),(6,21,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(3,10,18),(6,21,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(3,10,18),(5,17,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,7),(2,7,12),(4,15,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(1,3,6),(5,17,31)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,8),(2,10,15),(1,4,7),(4,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(4,15,25),(2,8,13)); lvl=4; h,r-ind=1,1
      [4,3]((5,22,36),(1,4,7),(4,17,27),(2,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,8,13),(6,25,41)); lvl=5; h,r-ind=1,1
        [4,3]((3,13,21),(4,17,27),(2,8,13),(6,25,41)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,21,34),(4,17,27),(2,8,13)); lvl=6; h,r-ind=1,1
          [3,3]((6,25,41),(5,21,34),(2,8,13)); lvl=6; h,r-ind=1,1
          [3,3]((3,13,21),(6,25,41),(5,21,34)); lvl=6; h,r-ind=1,1
          [3,3]((3,13,21),(5,21,34),(4,17,27)); lvl=6; h,r-ind=1,1
        [3,3]((3,13,21),(1,4,7),(6,25,41)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,36),(3,13,21),(1,4,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(5,22,36),(1,4,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,8),(5,22,36),(2,10,15),(4,17,27)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,9,14),(3,13,21),(7,32,51)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,5,8),(5,22,36),(3,13,21),(7,32,51)); lvl=5; h,r-ind=1,3
          [3,3]((4,18,29),(5,22,36),(3,13,21)); lvl=6; h,r-ind=1,1
          [3,3]((7,32,51),(4,18,29),(3,13,21)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,8),(7,32,51),(4,18,29)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,8),(4,18,29),(5,22,36)); lvl=6; h,r-ind=1,1
        [4,3]((1,5,8),(2,10,15),(2,9,14),(7,32,51)); lvl=5; h,r-ind=1,3
          [3,3]((3,14,22),(2,10,15),(2,9,14)); lvl=6; h,r-ind=1,1
          [3,3]((7,32,51),(3,14,22),(2,9,14)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,8),(7,32,51),(3,14,22)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,8),(3,14,22),(2,10,15)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,14),(4,17,27),(3,13,21)); lvl=5; h,r-ind=1,1
[4,3]((1,10,10),(2,15,20),(1,5,5),(2,10,15)); lvl=2; h,r-ind=25,5
  [4,3]((1,5,7),(2,13,17),(2,10,15),(4,25,35)); lvl=3; h,r-ind=1,1
    [3,3]((2,12,17),(4,25,35),(3,19,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,8),(2,12,17),(3,19,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,8),(2,13,17),(3,19,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,8),(4,23,33),(2,12,17)); lvl=4; h,r-ind=1,1
    [4,3]((2,10,15),(1,5,7),(1,6,8),(4,23,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(4,22,31),(1,6,8)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,16),(4,22,31),(1,6,8)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,16),(4,23,33),(1,6,8)); lvl=5; h,r-ind=1,1
      [4,3]((2,10,15),(2,11,16),(1,5,7),(4,22,31)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,16,23),(2,11,16),(4,22,31)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,7),(3,16,23),(4,22,31)); lvl=6; h,r-ind=1,1
        [3,3]((2,10,15),(3,16,23),(2,11,16)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,7),(2,10,15),(3,16,23)); lvl=6; h,r-ind=1,1
  [4,3]((2,15,20),(1,8,10),(2,13,17),(4,25,35)); lvl=3; h,r-ind=1,1
    [4,3]((2,15,20),(4,27,37),(1,7,9),(1,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(2,14,19),(4,29,38)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,10),(2,15,20),(2,14,19),(4,29,38)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,15,20),(3,22,29),(2,14,19)); lvl=6; h,r-ind=1,1
        [3,3]((4,29,38),(3,22,29),(2,14,19)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,10),(2,15,20),(3,22,29)); lvl=6; h,r-ind=1,1
        [3,3]((4,29,38),(1,8,10),(3,22,29)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,10),(1,7,9),(4,29,38)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(4,27,37),(2,14,19)); lvl=5; h,r-ind=1,1
    [3,3]((2,13,18),(4,27,37),(1,7,9)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,18),(3,19,26),(1,7,9)); lvl=4; h,r-ind=1,1
    [3,3]((3,19,26),(2,13,17),(1,7,9)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,18),(4,25,35),(3,19,26)); lvl=4; h,r-ind=1,1
  [4,3]((2,10,13),(1,5,7),(4,27,33),(2,13,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,17),(1,6,8),(3,20,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,16),(1,6,8),(3,20,25)); lvl=4; h,r-ind=1,1
    [3,3]((4,27,33),(2,13,16),(3,20,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,15),(2,13,16),(1,6,8)); lvl=4; h,r-ind=1,1
    [4,3]((2,10,13),(2,12,15),(1,5,7),(1,6,8)); lvl=4; h,r-ind=1,1
      [4,3]((2,12,15),(2,11,14),(1,6,8),(4,22,29)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,22),(4,22,29),(2,11,14)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,15),(3,17,22),(2,11,14)); lvl=6; h,r-ind=1,1
        [3,3]((3,17,22),(1,6,8),(4,22,29)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,15),(3,17,22),(1,6,8)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,7),(1,6,8),(4,22,29)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,7),(2,10,13),(2,11,14),(4,22,29)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,10,13),(3,16,21),(2,11,14)); lvl=6; h,r-ind=1,1
        [3,3]((4,22,29),(3,16,21),(2,11,14)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,7),(4,22,29),(3,16,21)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,7),(2,10,13),(3,16,21)); lvl=6; h,r-ind=1,1
  [4,3]((2,17,20),(1,8,10),(4,27,33),(2,13,17)); lvl=3; h,r-ind=1,1
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    [3,3]((1,7,9),(2,13,17),(3,20,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,14,17),(1,7,9),(3,20,25)); lvl=4; h,r-ind=1,1
    [3,3]((4,27,33),(2,14,17),(3,20,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,18),(2,14,17),(1,7,9)); lvl=4; h,r-ind=1,1
    [4,3]((2,17,20),(2,15,18),(1,7,9),(1,8,10)); lvl=4; h,r-ind=1,1
      [4,3]((2,16,19),(2,15,18),(1,7,9),(4,31,38)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((1,7,9),(2,15,18),(3,23,28)); lvl=6; h,r-ind=1,1
        [3,3]((2,16,19),(2,15,18),(3,23,28)); lvl=6; h,r-ind=1,1
        [3,3]((4,31,38),(1,7,9),(3,23,28)); lvl=6; h,r-ind=1,1
        [3,3]((2,16,19),(4,31,38),(3,23,28)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,10),(1,7,9),(4,31,38)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,10),(2,17,20),(2,16,19),(4,31,38)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,24,29),(2,17,20),(2,16,19)); lvl=6; h,r-ind=1,1
        [3,3]((4,31,38),(3,24,29),(2,16,19)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,10),(4,31,38),(3,24,29)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,10),(3,24,29),(2,17,20)); lvl=6; h,r-ind=1,1
  [4,3]((1,5,5),(2,10,13),(2,15,15),(4,27,33)); lvl=3; h,r-ind=3,1
    [3,3]((1,7,8),(4,27,33),(2,13,16)); lvl=4; h,r-ind=1,1
    [4,3]((3,19,22),(4,25,30),(1,7,8),(2,13,16)); lvl=4; h,r-ind=2,1
      [4,3]((1,7,8),(2,13,15),(2,13,16),(3,19,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,15),(3,19,23),(4,26,31)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,16),(3,19,23),(4,26,31)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,8),(2,13,16),(4,26,31)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,8),(2,13,15),(4,26,31)); lvl=6; h,r-ind=1,1
      [4,3]((3,19,22),(2,13,15),(4,25,30),(3,19,23)); lvl=5; h,r-ind=1,1
        [3,3]((6,38,45),(3,19,23),(2,13,15)); lvl=6; h,r-ind=1,1
        [3,3]((3,19,22),(6,38,45),(2,13,15)); lvl=6; h,r-ind=1,1
        [3,3]((4,25,30),(6,38,45),(3,19,23)); lvl=6; h,r-ind=1,1
        [3,3]((3,19,22),(4,25,30),(6,38,45)); lvl=6; h,r-ind=1,1
    [3,3]((2,12,15),(4,25,30),(2,13,16)); lvl=4; h,r-ind=2,2; alert-r-inc; optimized-h
    [5,3]((1,5,6),(2,10,13),(3,19,22),(2,12,15),(4,25,30)); lvl=4; h,r-ind=1,1
      [3,3]((7,43,52),(4,25,30),(2,12,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(7,43,52),(2,12,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,14),(2,12,15)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,6),(1,6,7),(2,10,13),(2,11,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(2,11,14),(3,16,20)); lvl=6; h,r-ind=1,1
        [3,3]((2,10,13),(2,11,14),(3,16,20)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,6),(1,6,7),(3,16,20)); lvl=6; h,r-ind=1,1
        [3,3]((2,10,13),(1,5,6),(3,16,20)); lvl=6; h,r-ind=1,1
      [4,3]((1,6,7),(7,43,52),(3,19,22),(4,25,30)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,31,37),(7,43,52),(4,25,30)); lvl=6; h,r-ind=1,1
        [3,3]((3,19,22),(5,31,37),(4,25,30)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(3,19,22),(5,31,37)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(5,31,37),(7,43,52)); lvl=6; h,r-ind=1,1
    [5,3]((1,5,5),(2,13,13),(2,13,14),(1,5,6),(3,19,22)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,13),(2,13,14),(3,19,20),(6,38,41)); lvl=5; h,r-ind=1,1
        [3,3]((5,32,34),(6,38,41),(3,19,20)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,13),(5,32,34),(3,19,20)); lvl=6; h,r-ind=1,1
        [3,3]((5,32,34),(2,13,14),(6,38,41)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,13),(5,32,34),(2,13,14)); lvl=6; h,r-ind=1,1
      [4,3]((1,6,6),(1,6,7),(3,19,20),(6,38,41)); lvl=5; h,r-ind=1,1
        [3,3]((4,25,27),(3,19,20),(6,38,41)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(4,25,27),(6,38,41)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,6),(4,25,27),(3,19,20)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(1,6,6),(4,25,27)); lvl=6; h,r-ind=1,1
      [4,3]((1,6,6),(1,5,5),(1,5,6),(1,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,5),(1,5,6),(2,11,12)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(1,5,6),(2,11,12)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,6),(1,5,5),(2,11,12)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(1,6,6),(2,11,12)); lvl=6; h,r-ind=1,1
      [4,3]((1,6,7),(2,13,14),(3,19,22),(6,38,41)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((2,13,14),(3,19,22),(3,19,21)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(3,19,22),(3,19,21)); lvl=6; h,r-ind=1,1
        [3,3]((6,38,41),(2,13,14),(3,19,21)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(6,38,41),(3,19,21)); lvl=6; h,r-ind=1,1
      [3,3]((1,6,6),(2,13,13),(3,19,20)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,7),(2,13,14),(3,19,22),(1,7,8)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,14),(5,33,36),(3,19,22),(2,13,15)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,26,29),(5,33,36),(2,13,15)); lvl=6; h,r-ind=1,1
        [3,3]((3,19,22),(4,26,29),(2,13,15)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,14),(3,19,22),(4,26,29)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,14),(4,26,29),(5,33,36)); lvl=6; h,r-ind=1,1
      [4,3]((1,7,8),(1,7,7),(5,33,36),(2,13,15)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((1,7,7),(5,33,36),(3,20,22)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,15),(5,33,36),(3,20,22)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,8),(1,7,7),(3,20,22)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,15),(1,7,8),(3,20,22)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,7),(2,13,14),(5,33,36)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,7),(2,15,15),(1,7,8)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,13),(1,7,7),(2,13,14)); lvl=4; h,r-ind=1,1
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  [4,3]((1,10,10),(2,17,20),(2,15,15),(4,27,33)); lvl=3; h,r-ind=3,1
    [3,3]((2,14,17),(2,15,18),(4,30,35)); lvl=4; h,r-ind=2,2; alert-r-inc; optimized-h
    [5,3]((1,9,10),(2,17,20),(3,23,26),(2,15,18),(4,30,35)); lvl=4; h,r-ind=1,1
      [3,3]((7,53,62),(2,15,18),(4,30,35)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,9),(7,53,62),(3,23,26),(4,30,35)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((7,53,62),(5,38,44),(4,30,35)); lvl=6; h,r-ind=1,1
        [3,3]((3,23,26),(5,38,44),(4,30,35)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,9),(3,23,26),(5,38,44)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,9),(7,53,62),(5,38,44)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,9),(7,53,62),(2,15,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,9),(2,16,19),(2,15,18)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,10),(1,8,9),(2,17,20),(2,16,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(2,16,19),(3,25,29)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,20),(2,16,19),(3,25,29)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,10),(2,17,20),(3,25,29)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,10),(1,8,9),(3,25,29)); lvl=6; h,r-ind=1,1
    [5,3]((1,10,10),(2,16,17),(2,17,17),(1,9,10),(3,23,26)); lvl=4; h,r-ind=1,1
      [4,3]((2,16,17),(2,17,17),(3,25,26),(6,49,52)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,17),(5,41,43),(3,25,26)); lvl=6; h,r-ind=1,1
        [3,3]((6,49,52),(5,41,43),(3,25,26)); lvl=6; h,r-ind=1,1
        [3,3]((2,16,17),(6,49,52),(5,41,43)); lvl=6; h,r-ind=1,1
        [3,3]((2,16,17),(2,17,17),(5,41,43)); lvl=6; h,r-ind=1,1
      [4,3]((1,9,9),(1,8,9),(3,25,26),(6,49,52)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(6,49,52),(4,33,35)); lvl=6; h,r-ind=1,1
        [3,3]((3,25,26),(6,49,52),(4,33,35)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,9),(3,25,26),(4,33,35)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,9),(1,8,9),(4,33,35)); lvl=6; h,r-ind=1,1
      [4,3]((1,9,9),(1,10,10),(1,8,9),(1,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,10),(1,9,10),(2,18,19)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,9),(1,9,10),(2,18,19)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,9),(1,8,9),(2,18,19)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,9),(1,10,10),(2,18,19)); lvl=6; h,r-ind=1,1
      [4,3]((3,23,26),(1,8,9),(2,16,17),(6,49,52)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((3,24,26),(1,8,9),(6,49,52)); lvl=6; h,r-ind=1,1
        [3,3]((2,16,17),(3,24,26),(6,49,52)); lvl=6; h,r-ind=1,1
        [3,3]((3,23,26),(2,16,17),(3,24,26)); lvl=6; h,r-ind=1,1
        [3,3]((3,23,26),(3,24,26),(1,8,9)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,9),(2,17,17),(3,25,26)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,8),(2,16,17),(2,17,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,8),(3,23,26),(2,14,17),(4,30,35)); lvl=4; h,r-ind=2,1
      [4,3]((3,23,26),(2,15,17),(4,30,35),(3,22,26)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,17),(3,22,26),(6,45,52)); lvl=6; h,r-ind=1,1
        [3,3]((4,30,35),(3,22,26),(6,45,52)); lvl=6; h,r-ind=1,1
        [3,3]((3,23,26),(2,15,17),(6,45,52)); lvl=6; h,r-ind=1,1
        [3,3]((4,30,35),(3,23,26),(6,45,52)); lvl=6; h,r-ind=1,1
      [4,3]((2,14,17),(1,7,8),(2,15,17),(3,22,26)); lvl=5; h,r-ind=1,1
        [3,3]((4,29,34),(1,7,8),(2,15,17)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,26),(4,29,34),(2,15,17)); lvl=6; h,r-ind=1,1
        [3,3]((2,14,17),(3,22,26),(4,29,34)); lvl=6; h,r-ind=1,1
        [3,3]((2,14,17),(4,29,34),(1,7,8)); lvl=6; h,r-ind=1,1
    [3,3]((1,7,8),(4,27,33),(2,14,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,8),(2,16,17),(1,7,8),(3,23,26)); lvl=4; h,r-ind=1,1
      [4,3]((2,16,17),(5,39,42),(2,15,17),(3,23,26)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,31,34),(5,39,42),(2,15,17)); lvl=6; h,r-ind=1,1
        [3,3]((3,23,26),(4,31,34),(2,15,17)); lvl=6; h,r-ind=1,1
        [3,3]((2,16,17),(3,23,26),(4,31,34)); lvl=6; h,r-ind=1,1
        [3,3]((2,16,17),(4,31,34),(5,39,42)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,8),(2,16,17),(5,39,42)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,8),(1,8,8),(5,39,42),(2,15,17)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((1,8,8),(5,39,42),(3,23,25)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,17),(5,39,42),(3,23,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,8),(1,8,8),(3,23,25)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,17),(1,7,8),(3,23,25)); lvl=6; h,r-ind=1,1
    [3,3]((2,15,15),(1,8,8),(1,7,8)); lvl=4; h,r-ind=1,1
[3,3]((1,5,10),(2,15,20),(2,10,15)); lvl=2; h,r-ind=25,5
  [3,3]((1,6,9),(2,13,20),(1,7,10)); lvl=3; h,r-ind=1,1
  [4,3]((2,15,20),(4,25,35),(1,6,9),(1,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,9),(2,13,18),(4,27,37),(5,33,47)); lvl=4; h,r-ind=1,1
      [4,3]((3,20,28),(2,13,18),(4,27,37),(6,39,55)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,33,46),(2,13,18),(4,27,37)); lvl=6; h,r-ind=1,1
        [3,3]((3,20,28),(5,33,46),(4,27,37)); lvl=6; h,r-ind=1,1
        [3,3]((6,39,55),(5,33,46),(2,13,18)); lvl=6; h,r-ind=1,1
        [3,3]((3,20,28),(6,39,55),(5,33,46)); lvl=6; h,r-ind=1,1
      [3,3]((1,6,9),(3,20,28),(6,39,55)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(3,20,28),(5,33,47)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(2,13,18),(6,39,55)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,10),(2,15,20),(4,27,37),(5,33,47)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,20,28),(2,14,19),(7,48,67)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,7,10),(2,15,20),(2,14,19),(7,48,67)); lvl=5; h,r-ind=1,3
        [3,3]((3,21,29),(2,15,20),(2,14,19)); lvl=6; h,r-ind=1,1
```

```
            [3,3]((7,48,67),(3,21,29),(2,14,19)); lvl=6; h,r-ind=1,1
            [3,3]((1,7,10),(7,48,67),(3,21,29)); lvl=6; h,r-ind=1,1
            [3,3]((1,7,10),(3,21,29),(2,15,20)); lvl=6; h,r-ind=1,1
          [4,3]((1,7,10),(5,33,47),(3,20,28),(7,48,67)); lvl=5; h,r-ind=1,3
            [3,3]((4,27,38),(3,20,28),(5,33,47)); lvl=6; h,r-ind=1,1
            [3,3]((1,7,10),(4,27,38),(5,33,47)); lvl=6; h,r-ind=1,1
            [3,3]((7,48,67),(4,27,38),(3,20,28)); lvl=6; h,r-ind=1,1
            [3,3]((1,7,10),(7,48,67),(4,27,38)); lvl=6; h,r-ind=1,1
          [3,3]((3,20,28),(4,27,37),(2,14,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(1,6,9),(5,33,47)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,9),(4,25,35),(2,13,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,10),(2,10,17),(1,6,9),(2,13,20)); lvl=3; h,r-ind=3,3
        [4,3]((1,5,9),(4,23,37),(2,10,17),(1,6,9)); lvl=4; h,r-ind=1,3
          [3,3]((4,23,37),(1,6,9),(2,11,18)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,17),(1,6,9),(2,11,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(2,10,17),(2,11,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(4,23,37),(2,11,18)); lvl=5; h,r-ind=1,1
        [4,3]((1,6,10),(2,13,20),(4,23,37),(1,6,9)); lvl=4; h,r-ind=1,3
          [3,3]((2,12,19),(2,13,20),(1,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((4,23,37),(2,12,19),(1,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,10),(4,23,37),(2,12,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,10),(2,12,19),(2,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(1,6,10),(4,23,37)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,5,10),(1,5,9),(1,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,10,17),(1,6,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,10,15),(4,25,35),(1,5,8),(1,6,9)); lvl=3; h,r-ind=1,1
        [3,3]((4,25,35),(2,12,17),(1,6,9)); lvl=4; h,r-ind=1,1
        [4,3]((4,23,33),(5,28,42),(2,12,17),(1,6,9)); lvl=4; h,r-ind=1,1
          [3,3]((6,35,51),(1,6,9),(2,12,17)); lvl=5; h,r-ind=1,1
          [4,3]((4,23,33),(6,35,51),(3,17,25),(2,12,17)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((5,29,42),(3,17,25),(6,35,51)); lvl=6; h,r-ind=1,1
            [3,3]((2,12,17),(5,29,42),(6,35,51)); lvl=6; h,r-ind=1,1
            [3,3]((4,23,33),(5,29,42),(3,17,25)); lvl=6; h,r-ind=1,1
            [3,3]((2,12,17),(4,23,33),(5,29,42)); lvl=6; h,r-ind=1,1
          [3,3]((6,35,51),(3,17,25),(1,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((5,28,42),(3,17,25),(1,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(5,28,42),(1,6,9)); lvl=4; h,r-ind=1,1
        [4,3]((2,10,15),(4,23,33),(1,5,8),(5,28,42)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((1,5,8),(7,38,57),(3,17,25),(5,28,42)); lvl=5; h,r-ind=1,3
            [3,3]((4,22,33),(3,17,25),(7,38,57)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,8),(4,22,33),(7,38,57)); lvl=6; h,r-ind=1,1
            [3,3]((5,28,42),(4,22,33),(3,17,25)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,8),(5,28,42),(4,22,33)); lvl=6; h,r-ind=1,1
          [3,3]((7,38,57),(2,11,16),(3,17,25)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,5,8),(2,10,15),(7,38,57),(2,11,16)); lvl=5; h,r-ind=1,3
            [3,3]((2,10,15),(2,11,16),(3,16,24)); lvl=6; h,r-ind=1,1
            [3,3]((7,38,57),(2,11,16),(3,16,24)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,8),(2,10,15),(3,16,24)); lvl=6; h,r-ind=1,1
            [3,3]((7,38,57),(1,5,8),(3,16,24)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,16),(3,17,25),(4,23,33)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(1,10,20),(1,10,10)); lvl=1; h,r-ind=10,10; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,10,10)); lvl=1; h,r-ind=10,10; optimized-h
```

20.17 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,20)); lvl=0; h,r-ind=20,200
  [5,3]((4,5,32),(1,1,6),(3,3,19),(3,4,25),(3,4,24)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,31),(3,4,25),(3,4,24)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,31),(1,1,6),(3,4,24)); lvl=2; h,r-ind=1,1
    [4,3]((6,7,44),(4,5,31),(9,11,69),(1,1,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,31),(9,11,69),(10,12,75)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,44),(9,11,69),(10,12,75)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,6),(6,7,44),(10,12,75)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,6),(4,5,31),(10,12,75)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,19),(6,7,44),(1,1,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,32),(3,3,19),(6,7,44)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((8,10,63),(4,5,31),(9,11,69),(3,4,25)); lvl=2; h,r-ind=1,1
      [3,3]((12,15,94),(9,11,69),(4,5,31)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,25),(12,15,94),(4,5,31)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,63),(3,4,25),(12,15,94)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,63),(12,15,94),(9,11,69)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,32),(8,10,63),(3,4,25)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,32),(6,7,44),(8,10,63),(9,11,69)); lvl=2; h,r-ind=1,1
      [4,3]((5,6,38),(22,27,170),(9,11,69),(6,7,44)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,11,69),(22,27,170),(14,17,107)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,38),(22,27,170),(14,17,107)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,44),(9,11,69),(14,17,107)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((5,6,38),(6,7,44),(14,17,107)); lvl=4; h,r-ind=1,1
    [3,3]((8,10,63),(22,27,170),(9,11,69)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,38),(4,5,32),(8,10,63),(22,27,170)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((13,16,101),(4,5,32),(8,10,63)); lvl=4; h,r-ind=1,1
      [3,3]((22,27,170),(13,16,101),(8,10,63)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,38),(22,27,170),(13,16,101)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,38),(13,16,101),(4,5,32)); lvl=4; h,r-ind=1,1
[4,3]((2,3,19),(2,3,17),(3,4,25),(3,4,24)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,25),(3,4,24),(8,11,67)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,18),(2,3,17),(3,4,24),(8,11,67)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((5,7,42),(3,4,24),(2,3,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,18),(5,7,42),(2,3,17)); lvl=3; h,r-ind=1,1
    [3,3]((8,11,67),(5,7,42),(3,4,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,18),(8,11,67),(5,7,42)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,19),(2,3,18),(3,4,25),(8,11,67)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((5,7,43),(8,11,67),(2,3,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,19),(5,7,43),(2,3,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,25),(2,3,19),(5,7,43)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,25),(5,7,43),(8,11,67)); lvl=3; h,r-ind=1,1
[4,3]((1,2,9),(1,2,10),(2,3,19),(2,3,17)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,10),(4,7,37),(2,3,18),(2,3,19)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((4,7,37),(2,3,18),(3,5,28)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,19),(2,3,18),(3,5,28)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,10),(2,3,19),(3,5,28)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,10),(4,7,37),(3,5,28)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,9),(1,2,10),(4,7,37)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,17),(1,2,9),(4,7,37),(2,3,18)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((3,5,27),(4,7,37),(1,2,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,17),(3,5,27),(1,2,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,27),(2,3,18),(4,7,37)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,17),(3,5,27),(2,3,18)); lvl=3; h,r-ind=1,1
[3,3]((2,3,20),(1,2,10),(2,3,19)); lvl=1; h,r-ind=1,1
[5,3]((2,3,10),(2,2,7),(2,3,17),(1,1,6),(3,4,24)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,23),(6,8,37),(1,1,6),(2,2,9)); lvl=2; h,r-ind=3,1; alert-h-inc
    [3,3]((4,5,23),(1,1,5),(2,2,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,19),(4,5,23),(1,1,5)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,19),(6,8,41),(1,1,5)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((3,4,23),(6,8,41),(1,1,6),(1,1,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,38),(1,1,5),(1,1,6)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,23),(6,8,43),(6,7,38),(1,1,6)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,1,6),(9,11,61),(4,5,27),(6,7,38)); lvl=5; h,r-ind=1,3
          [3,3]((9,11,61),(5,6,33),(4,5,27)); lvl=6; h,r-ind=1,1
          [3,3]((6,7,38),(5,6,33),(4,5,27)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,6),(6,7,38),(5,6,33)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,6),(9,11,61),(5,6,33)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,22),(9,11,61),(4,5,27)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,1,6),(3,4,23),(3,4,22),(9,11,61)); lvl=5; h,r-ind=1,3
          [3,3]((4,5,28),(3,4,22),(3,4,23)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,6),(4,5,28),(3,4,23)); lvl=6; h,r-ind=1,1
          [3,3]((9,11,61),(4,5,28),(3,4,22)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,6),(9,11,61),(4,5,28)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,22),(4,5,27),(6,8,43)); lvl=5; h,r-ind=1,1
      [4,3]((6,8,43),(3,4,21),(6,7,38),(1,1,5)); lvl=4; h,r-ind=1,1
        [3,3]((8,10,53),(1,1,5),(3,4,21)); lvl=5; h,r-ind=1,1
        [4,3]((6,8,43),(8,10,53),(4,5,27),(3,4,21)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((7,9,48),(4,5,27),(8,10,53)); lvl=6; h,r-ind=1,1
          [3,3]((3,4,21),(7,9,48),(8,10,53)); lvl=6; h,r-ind=1,1
          [3,3]((6,8,43),(7,9,48),(4,5,27)); lvl=6; h,r-ind=1,1
          [3,3]((3,4,21),(6,8,43),(7,9,48)); lvl=6; h,r-ind=1,1
        [3,3]((8,10,53),(4,5,27),(1,1,5)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,38),(4,5,27),(1,1,5)); lvl=5; h,r-ind=1,1
      [3,3]((6,8,41),(3,4,21),(1,1,5)); lvl=4; h,r-ind=1,1
    [3,3]((6,8,37),(3,4,19),(4,5,23)); lvl=3; h,r-ind=1,1
  [5,3]((2,3,10),(4,6,27),(6,8,37),(1,1,4),(2,2,9)); lvl=2; h,r-ind=1,1
    [4,3]((5,7,32),(4,5,23),(3,4,18),(6,8,37)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,18),(4,5,23),(9,12,55)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,37),(4,5,23),(9,12,55)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,32),(3,4,18),(9,12,55)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,37),(5,7,32),(9,12,55)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,13),(5,7,32),(4,6,27),(3,4,18)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,45),(5,7,32),(4,6,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,13),(7,10,45),(4,6,27)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,18),(2,3,13),(7,10,45)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,18),(7,10,45),(5,7,32)); lvl=4; h,r-ind=1,1
    [4,3]((4,5,23),(3,4,18),(6,7,30),(2,2,9)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,18),(5,6,27),(6,7,31),(9,11,48)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,27),(15,18,80),(6,7,31)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,22),(15,18,80),(6,7,31)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,22),(9,11,48),(6,7,31)); lvl=5; h,r-ind=1,1
        [4,3]((4,5,22),(3,4,18),(5,6,27),(15,18,80)); lvl=5; h,r-ind=1,2; alert-r-inc
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            [3,3]((5,6,27),(3,4,18),(9,11,49)); lvl=6; h,r-ind=1,1
            [3,3]((4,5,22),(3,4,18),(9,11,49)); lvl=6; h,r-ind=1,1
            [3,3]((15,18,80),(5,6,27),(9,11,49)); lvl=6; h,r-ind=1,1
            [3,3]((4,5,22),(15,18,80),(9,11,49)); lvl=6; h,r-ind=1,1
        [4,3]((2,2,9),(6,7,30),(6,7,31),(9,11,48)); lvl=4; h,r-ind=1,1
          [4,3]((6,7,31),(13,15,66),(5,6,26),(9,11,48)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((5,6,26),(13,15,66),(11,13,57)); lvl=6; h,r-ind=1,1
            [3,3]((6,7,31),(13,15,66),(11,13,57)); lvl=6; h,r-ind=1,1
            [3,3]((9,11,48),(5,6,26),(11,13,57)); lvl=6; h,r-ind=1,1
            [3,3]((6,7,31),(9,11,48),(11,13,57)); lvl=6; h,r-ind=1,1
          [3,3]((2,2,9),(6,7,31),(13,15,66)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,9),(13,15,66),(5,6,26)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,9),(6,7,30),(5,6,26)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,23),(3,4,18),(5,6,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,9),(4,5,23),(5,6,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,9),(5,6,27),(6,7,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(6,7,30),(2,2,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,10),(2,3,12),(1,1,4),(6,7,30)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((4,5,20),(1,1,4),(4,5,21),(6,7,30)); lvl=4; h,r-ind=1,2
          [3,3]((5,6,25),(6,7,30),(1,1,4)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,20),(5,6,25),(1,1,4)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,25),(4,5,21),(6,7,30)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,20),(5,6,25),(4,5,21)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,20),(2,3,12),(4,5,21)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((2,3,11),(4,5,20),(2,3,12)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((2,3,11),(2,3,10),(4,5,20),(1,1,4)); lvl=4; h,r-ind=1,2
          [3,3]((3,4,15),(1,1,4),(2,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,11),(3,4,15),(2,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,20),(3,4,15),(1,1,4)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,11),(4,5,20),(3,4,15)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,12),(2,3,13),(3,4,18),(6,7,30)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,13),(3,4,18),(3,4,17)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,48),(3,4,18),(3,4,17)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
        [4,3]((6,7,30),(9,11,48),(4,5,21),(3,4,17)); lvl=4; h,r-ind=1,1
          [3,3]((5,6,26),(3,4,17),(9,11,48)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,26),(12,15,64),(3,4,17)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,21),(12,15,64),(3,4,17)); lvl=5; h,r-ind=1,1
          [4,3]((6,7,30),(5,6,26),(4,5,21),(12,15,64)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((4,5,21),(12,15,64),(9,11,47)); lvl=6; h,r-ind=1,1
            [3,3]((5,6,26),(12,15,64),(9,11,47)); lvl=6; h,r-ind=1,1
            [3,3]((6,7,30),(4,5,21),(9,11,47)); lvl=6; h,r-ind=1,1
            [3,3]((5,6,26),(6,7,30),(9,11,47)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,12),(4,5,21),(3,4,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,12),(2,3,13),(3,4,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,10),(2,2,7),(1,1,4)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,23),(4,6,27),(6,8,37),(2,3,17)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,14),(4,6,27),(5,7,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,19),(2,3,14),(5,7,32)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,37),(3,4,19),(5,7,32)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,19),(6,8,41),(2,3,15),(2,3,14)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,15),(3,4,20),(6,8,41)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,15),(7,10,49),(3,4,20)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,14),(3,4,19),(7,10,49),(3,4,20)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,7,34),(3,4,20),(3,4,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,14),(5,7,34),(3,4,19)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,49),(5,7,34),(3,4,20)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,14),(7,10,49),(5,7,34)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,14),(2,3,15),(7,10,49)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,23),(2,3,17),(6,8,41),(2,3,15)); lvl=3; h,r-ind=1,1
        [4,3]((3,4,21),(6,8,43),(2,3,15),(2,3,16)); lvl=4; h,r-ind=1,1
          [3,3]((2,3,15),(2,3,16),(5,7,37)); lvl=5; h,r-ind=1,1
          [3,3]((6,8,43),(2,3,16),(5,7,37)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,21),(2,3,15),(5,7,37)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,21),(6,8,43),(5,7,37)); lvl=5; h,r-ind=1,1
        [4,3]((3,4,23),(6,8,43),(2,3,17),(2,3,16)); lvl=4; h,r-ind=1,1
          [3,3]((7,10,55),(2,3,16),(2,3,17)); lvl=5; h,r-ind=1,1
          [4,3]((3,4,23),(3,4,22),(7,10,55),(2,3,17)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((5,7,39),(3,4,22),(7,10,55)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,17),(5,7,39),(7,10,55)); lvl=6; h,r-ind=1,1
            [3,3]((3,4,23),(2,3,17),(5,7,39)); lvl=6; h,r-ind=1,1
            [3,3]((3,4,23),(5,7,39),(3,4,22)); lvl=6; h,r-ind=1,1
          [3,3]((3,4,22),(7,10,55),(2,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((6,8,43),(3,4,22),(2,3,16)); lvl=5; h,r-ind=1,1
        [3,3]((6,8,41),(3,4,21),(2,3,15)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,23),(3,4,24),(1,1,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,23),(2,3,17),(3,4,24)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,7),(1,1,6)); lvl=1; h,r-ind=5,5; optimized-h
  [4,3]((0,1,0),(2,3,10),(1,0,0),(2,2,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,10),(1,1,3),(2,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(2,2,7)); lvl=2; h,r-ind=1,1
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  [3,3]((2,3,10),(1,1,3),(3,4,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,3),(3,4,11),(3,4,12)); lvl=2; h,r-ind=1,1
  [5,3]((1,1,2),(2,3,5),(2,3,7),(1,1,3),(3,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,11),(3,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,11),(3,4,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,3),(5,6,14),(3,4,9),(3,4,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,9),(4,5,12),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,12),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(3,4,9),(4,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,10),(4,5,12)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,6),(2,3,7),(3,4,9),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,16),(3,4,10),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(5,7,16),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,16),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(2,3,7),(5,7,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(1,1,3),(5,6,14)); lvl=3; h,r-ind=1,1
    [5,3]((2,3,5),(1,1,2),(2,3,6),(5,6,14),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,11),(3,4,9),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,11),(5,6,14)); lvl=4; h,r-ind=1,1
      [4,3]((4,5,11),(7,9,19),(6,8,17),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,17),(7,9,19),(10,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,11),(7,9,19),(10,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,9),(4,5,11),(10,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,9),(6,8,17),(10,13,28)); lvl=5; h,r-ind=1,1
      [3,3]((6,8,17),(2,3,6),(3,4,9)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,8),(7,9,19),(6,8,17),(2,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((9,12,25),(6,8,17),(7,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,8),(9,12,25),(7,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,6),(9,12,25),(6,8,17)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,8),(2,3,6),(9,12,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,5),(3,4,8),(2,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,8),(7,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(1,1,2),(3,4,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,11),(7,9,19)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(1,1,2),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(1,1,2)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,3),(1,1,1),(2,3,4),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(1,1,2),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,3),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,4),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,5),(2,3,4)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(2,3,4)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,4),(2,3,5),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(2,3,5)); lvl=3; h,r-ind=1,1
  [6,3]((1,2,4),(2,3,7),(2,3,9),(1,2,5),(3,4,11),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(3,4,11),(3,4,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,8),(2,3,9),(3,4,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,8),(1,2,5),(2,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,8),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(2,3,8),(3,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(1,2,4),(2,3,8)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,10),(2,3,9),(3,4,12)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,10),(2,3,9),(1,2,5)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(1,2,9),(2,3,10),(2,3,17)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,7),(4,6,27),(2,3,17),(1,2,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,8),(6,11,45),(2,3,17),(2,3,15)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [3,3]((2,3,16),(4,7,31),(2,3,15)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((4,7,30),(4,7,31),(2,3,15)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,2,8),(4,7,30),(6,11,45),(4,7,31)); lvl=4; h,r-ind=1,2
        [3,3]((5,9,38),(6,11,45),(4,7,30)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,31),(5,9,38),(4,7,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,8),(4,7,31),(5,9,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,8),(5,9,38),(6,11,45)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,8),(2,3,17),(2,3,16),(4,7,31)); lvl=4; h,r-ind=1,2
        [3,3]((2,3,17),(3,5,24),(2,3,16)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,31),(3,5,24),(2,3,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,8),(4,7,31),(3,5,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,8),(2,3,17),(3,5,24)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,7),(6,11,45),(2,3,14),(2,3,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,22),(2,3,14),(2,3,15)); lvl=4; h,r-ind=1,1
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        [4,3]((4,7,30),(8,14,59),(3,5,22),(2,3,15)); lvl=4; h,r-ind=1,1
          [3,3]((7,12,52),(3,5,22),(8,14,59)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,30),(7,12,52),(8,14,59)); lvl=5; h,r-ind=1,1
          [3,3]((7,12,52),(2,3,15),(3,5,22)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,30),(7,12,52),(2,3,15)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,7),(6,11,45),(4,7,30),(8,14,59)); lvl=4; h,r-ind=1,1
          [3,3]((5,9,37),(4,7,30),(6,11,45)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,7),(5,9,37),(6,11,45)); lvl=5; h,r-ind=1,1
          [3,3]((8,14,59),(5,9,37),(4,7,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,7),(8,14,59),(5,9,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(3,5,22),(2,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(8,14,59),(3,5,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(2,3,14),(4,6,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(1,2,8),(6,11,45)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,9),(2,3,17),(1,2,8)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,9),(1,2,8)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,7),(1,2,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(2,3,10),(1,2,7),(4,6,27)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,7),(1,2,6),(2,3,12),(2,3,13)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,6),(2,3,12),(3,5,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,13),(2,3,12),(3,5,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(1,2,6),(3,5,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,13),(1,2,7),(3,5,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(4,6,27),(2,3,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,5),(1,2,6),(2,3,10),(2,3,12)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,6),(4,7,22),(2,3,11),(2,3,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,17),(4,7,22),(2,3,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,12),(3,5,17),(2,3,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(2,3,12),(3,5,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(3,5,17),(4,7,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(1,2,6),(4,7,22)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,5),(4,7,22),(2,3,10),(2,3,11)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,16),(2,3,11),(2,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(3,5,16),(2,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,22),(3,5,16),(2,3,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(4,7,22),(3,5,16)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,5),(1,2,7)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,2,9),(1,2,10)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,6),(3,3,19)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,20),(2,3,19),(4,5,32),(3,4,25)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,25),(2,3,19),(8,11,70)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,26),(2,3,20),(2,3,19),(8,11,70)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,7,45),(2,3,20),(2,3,19)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,70),(5,7,45),(2,3,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,26),(8,11,70),(5,7,45)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,26),(5,7,45),(2,3,20)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,32),(3,4,26),(3,4,25),(8,11,70)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,8,51),(3,4,26),(8,11,70)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,25),(6,8,51),(8,11,70)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,32),(6,8,51),(3,4,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,25),(4,5,32),(6,8,51)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,20),(1,0,0),(4,5,32),(3,3,19)); lvl=1; h,r-ind=1,1
    [3,3]((1,0,0),(3,3,19),(2,2,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,32),(3,3,19),(2,2,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,32),(3,4,26),(2,2,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,20),(3,4,26),(2,2,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,20),(1,0,0),(2,2,13)); lvl=2; h,r-ind=1,1
```

20.18 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,5,20)); lvl=0; h,r-ind=20,40
  [5,3]((2,5,15),(1,0,0),(2,3,12),(1,2,7),(2,5,10)); lvl=1; h,r-ind=1,1
    [5,3]((2,3,9),(3,5,16),(1,1,4),(2,3,11),(3,5,17)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,10),(2,3,11),(3,5,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,16),(2,3,10),(3,5,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(3,5,16),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(2,3,10),(2,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(1,1,4),(2,3,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,7),(2,3,12),(2,3,11),(3,5,17)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,18),(2,3,12),(2,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,17),(3,5,18),(2,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(3,5,17),(3,5,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(3,5,18),(2,3,12)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,16),(1,2,6),(1,2,7),(3,5,17)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,7),(1,2,6),(4,7,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,16),(1,2,6),(4,7,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,17),(3,5,16),(4,7,23)); lvl=3; h,r-ind=1,1
```

```
  [3,3]((3,5,17),(1,2,7),(4,7,23)); lvl=3; h,r-ind=1,1
[3,3]((1,2,6),(2,5,15),(1,2,7)); lvl=2; h,r-ind=1,1
[4,3]((4,10,25),(2,4,11),(1,2,6),(2,5,15)); lvl=2; h,r-ind=1,1
  [4,3]((5,11,30),(9,20,55),(2,4,11),(1,2,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,11),(1,2,6),(6,13,36)); lvl=4; h,r-ind=1,1
    [3,3]((9,20,55),(1,2,6),(6,13,36)); lvl=4; h,r-ind=1,1
    [3,3]((5,11,30),(2,4,11),(6,13,36)); lvl=4; h,r-ind=1,1
    [3,3]((5,11,30),(9,20,55),(6,13,36)); lvl=4; h,r-ind=1,1
  [5,3]((4,10,27),(3,7,19),(9,20,55),(2,5,15),(1,2,6)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,25),(1,2,6),(9,20,55)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,19),(4,9,25),(9,20,55)); lvl=4; h,r-ind=1,1
    [4,3]((3,7,19),(9,21,58),(10,23,64),(4,9,25)); lvl=4; h,r-ind=1,1
      [3,3]((13,30,83),(10,23,64),(9,21,58)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,19),(13,30,83),(9,21,58)); lvl=5; h,r-ind=1,1
      [3,3]((4,9,25),(3,7,19),(13,30,83)); lvl=5; h,r-ind=1,1
      [3,3]((4,9,25),(13,30,83),(10,23,64)); lvl=5; h,r-ind=1,1
    [3,3]((4,10,27),(5,12,33),(2,5,14)); lvl=4; h,r-ind=1,1
    [4,3]((4,10,27),(5,12,33),(3,7,19),(9,21,58)); lvl=4; h,r-ind=1,1
      [3,3]((8,19,52),(9,21,58),(3,7,19)); lvl=5; h,r-ind=1,1
      [3,3]((4,10,27),(8,19,52),(3,7,19)); lvl=5; h,r-ind=1,1
      [3,3]((8,19,52),(5,12,33),(9,21,58)); lvl=5; h,r-ind=1,1
      [3,3]((4,10,27),(8,19,52),(5,12,33)); lvl=5; h,r-ind=1,1
    [4,3]((10,23,64),(4,9,25),(7,16,45),(1,2,6)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,25),(1,2,6),(11,25,70)); lvl=5; h,r-ind=1,1
      [3,3]((7,16,45),(1,2,6),(11,25,70)); lvl=5; h,r-ind=1,1
      [3,3]((10,23,64),(7,16,45),(11,25,70)); lvl=5; h,r-ind=1,1
      [3,3]((10,23,64),(4,9,25),(11,25,70)); lvl=5; h,r-ind=1,1
    [4,3]((2,5,15),(2,5,14),(7,16,45),(1,2,6)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((2,5,14),(3,7,20),(7,16,45)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,6),(3,7,20),(7,16,45)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,15),(1,2,6),(3,7,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,15),(2,5,14),(3,7,20)); lvl=5; h,r-ind=1,1
    [5,3]((5,12,33),(9,21,58),(10,23,64),(2,5,14),(7,16,45)); lvl=4; h,r-ind=1,1
      [3,3]((10,23,64),(6,14,39),(7,16,45)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,14),(6,14,39),(7,16,45)); lvl=5; h,r-ind=1,1
      [3,3]((5,12,33),(2,5,14),(6,14,39)); lvl=5; h,r-ind=1,1
      [3,3]((9,21,58),(10,23,64),(6,14,39)); lvl=5; h,r-ind=1,1
      [3,3]((5,12,33),(9,21,58),(6,14,39)); lvl=5; h,r-ind=1,1
  [3,3]((2,5,13),(4,10,27),(3,7,19)); lvl=3; h,r-ind=1,1
  [5,3]((3,7,18),(2,5,13),(3,7,19),(5,11,30),(9,20,55)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,19),(8,18,49),(9,20,55)); lvl=4; h,r-ind=1,1
    [3,3]((5,11,30),(8,18,49),(9,20,55)); lvl=4; h,r-ind=1,1
    [4,3]((3,7,19),(12,28,75),(8,18,49),(7,16,43)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((10,23,62),(7,16,43),(12,28,75)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,19),(10,23,62),(12,28,75)); lvl=5; h,r-ind=1,1
      [3,3]((8,18,49),(10,23,62),(7,16,43)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,19),(8,18,49),(10,23,62)); lvl=5; h,r-ind=1,1
    [3,3]((2,5,13),(3,7,19),(12,28,75)); lvl=4; h,r-ind=1,1
    [5,3]((2,5,13),(3,7,18),(4,9,24),(12,28,75),(7,16,43)); lvl=4; h,r-ind=1,1
      [4,3]((9,21,56),(13,30,80),(15,35,93),(7,16,43)); lvl=5; h,r-ind=1,1
        [3,3]((15,35,93),(13,30,80),(22,51,136)); lvl=6; h,r-ind=1,1
        [3,3]((7,16,43),(13,30,80),(22,51,136)); lvl=6; h,r-ind=1,1
        [3,3]((9,21,56),(15,35,93),(22,51,136)); lvl=6; h,r-ind=1,1
        [3,3]((7,16,43),(9,21,56),(22,51,136)); lvl=6; h,r-ind=1,1
      [3,3]((12,28,75),(9,21,56),(7,16,43)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,13),(12,28,75),(9,21,56)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,13),(9,21,56),(15,35,93)); lvl=5; h,r-ind=1,1
      [3,3]((4,9,24),(13,30,80),(7,16,43)); lvl=5; h,r-ind=1,1
      [4,3]((4,9,24),(13,30,80),(6,14,37),(15,35,93)); lvl=5; h,r-ind=1,1
        [3,3]((15,35,93),(6,14,37),(19,44,117)); lvl=6; h,r-ind=1,1
        [3,3]((4,9,24),(6,14,37),(19,44,117)); lvl=6; h,r-ind=1,1
        [3,3]((13,30,80),(4,9,24),(19,44,117)); lvl=6; h,r-ind=1,1
        [3,3]((13,30,80),(15,35,93),(19,44,117)); lvl=6; h,r-ind=1,1
      [3,3]((2,5,13),(6,14,37),(15,35,93)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,18),(4,9,24),(6,14,37)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,13),(3,7,18),(6,14,37)); lvl=5; h,r-ind=1,1
    [4,3]((4,9,24),(5,11,30),(8,18,49),(7,16,43)); lvl=4; h,r-ind=1,1
      [3,3]((12,27,73),(8,18,49),(5,11,30)); lvl=5; h,r-ind=1,1
      [3,3]((4,9,24),(12,27,73),(5,11,30)); lvl=5; h,r-ind=1,1
      [3,3]((7,16,43),(12,27,73),(8,18,49)); lvl=5; h,r-ind=1,1
      [3,3]((4,9,24),(7,16,43),(12,27,73)); lvl=5; h,r-ind=1,1
  [3,3]((3,7,18),(5,11,30),(2,4,11)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((3,7,18),(4,10,25),(2,5,13)); lvl=3; h,r-ind=1,1
[4,3]((1,2,4),(2,5,10),(4,10,25),(2,4,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,5),(2,5,12),(4,10,23)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,4),(1,2,5),(2,5,10),(4,10,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,5,11),(4,10,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(2,5,11),(4,9,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,4),(4,9,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(2,5,10),(2,5,11),(4,9,20)); lvl=4; h,r-ind=1,2; alert-r-inc
```

```
          [3,3]((2,5,10),(3,7,15),(2,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,20),(3,7,15),(2,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,4),(4,9,20),(3,7,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,4),(2,5,10),(3,7,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,5),(3,7,18),(2,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,18),(4,10,25),(2,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,11),(3,7,18)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,9),(3,5,16),(2,4,11),(1,2,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,11),(3,5,15),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,16),(3,5,15),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(3,5,16),(3,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(2,4,11),(3,5,15)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,6),(2,3,9),(1,2,4),(2,4,11)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((2,3,9),(1,2,5),(2,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,15),(2,3,9),(1,2,5)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((2,3,6),(4,6,15),(1,2,4),(1,2,5)); lvl=3; h,r-ind=1,1
        [3,3]((4,7,16),(1,2,5),(1,2,4)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,6),(4,7,16),(2,3,7),(1,2,4)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,7),(4,7,16),(3,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,4),(4,7,16),(3,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,6),(1,2,4),(3,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,6),(2,3,7),(3,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,16),(2,3,7),(1,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(4,6,15),(1,2,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,9),(1,1,4)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(2,3,6),(2,3,9)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,3,12),(1,1,4),(2,3,11)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,3,8),(2,5,15),(2,5,10)); lvl=1; h,r-ind=1,1
    [4,3]((2,6,13),(4,10,25),(2,5,15),(1,3,7)); lvl=2; h,r-ind=1,1
      [5,3]((1,3,7),(2,5,15),(4,10,27),(3,8,20),(9,25,60)); lvl=3; h,r-ind=1,1
        [4,3]((9,24,61),(10,27,68),(4,11,27),(3,8,20)); lvl=4; h,r-ind=1,1
          [3,3]((13,35,88),(4,11,27),(10,27,68)); lvl=5; h,r-ind=1,1
          [3,3]((9,24,61),(13,35,88),(10,27,68)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,20),(9,24,61),(13,35,88)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,20),(13,35,88),(4,11,27)); lvl=5; h,r-ind=1,1
        [3,3]((9,25,60),(4,11,27),(3,8,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(9,25,60),(4,11,27)); lvl=4; h,r-ind=1,1
        [4,3]((4,10,27),(5,13,34),(9,24,61),(3,8,20)); lvl=4; h,r-ind=1,1
          [3,3]((8,21,54),(5,13,34),(9,24,61)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,20),(8,21,54),(9,24,61)); lvl=5; h,r-ind=1,1
          [3,3]((4,10,27),(3,8,20),(8,21,54)); lvl=5; h,r-ind=1,1
          [3,3]((4,10,27),(8,21,54),(5,13,34)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,14),(4,10,27),(5,13,34)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,7),(7,19,48),(10,27,68),(4,11,27)); lvl=4; h,r-ind=1,1
          [3,3]((7,19,48),(10,27,68),(11,30,75)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,27),(10,27,68),(11,30,75)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(7,19,48),(11,30,75)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,27),(1,3,7),(11,30,75)); lvl=5; h,r-ind=1,1
        [5,3]((2,5,14),(5,13,34),(9,24,61),(7,19,48),(10,27,68)); lvl=4; h,r-ind=1,1
          [3,3]((6,16,41),(9,24,61),(10,27,68)); lvl=5; h,r-ind=1,1
          [3,3]((7,19,48),(6,16,41),(10,27,68)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,14),(7,19,48),(6,16,41)); lvl=5; h,r-ind=1,1
          [3,3]((5,13,34),(6,16,41),(9,24,61)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,14),(5,13,34),(6,16,41)); lvl=5; h,r-ind=1,1
        [4,3]((2,5,15),(1,3,7),(2,5,14),(7,19,48)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((3,8,21),(1,3,7),(7,19,48)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,21),(2,5,14),(7,19,48)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(3,8,21),(2,5,14)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(3,8,21),(1,3,7)); lvl=5; h,r-ind=1,1
      [5,3]((3,8,19),(5,14,33),(2,5,13),(3,8,20),(9,25,60)); lvl=3; h,r-ind=1,1
        [4,3]((3,8,20),(8,22,53),(12,32,79),(7,19,46)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((10,27,66),(8,22,53),(7,19,46)); lvl=5; h,r-ind=1,1
          [3,3]((12,32,79),(10,27,66),(7,19,46)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,20),(12,32,79),(10,27,66)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,20),(10,27,66),(8,22,53)); lvl=5; h,r-ind=1,1
        [5,3]((3,8,19),(4,11,26),(2,5,13),(12,32,79),(7,19,46)); lvl=4; h,r-ind=1,1
          [4,3]((9,24,59),(7,19,46),(13,35,85),(15,40,98)); lvl=5; h,r-ind=1,1
            [3,3]((22,59,144),(13,35,85),(7,19,46)); lvl=6; h,r-ind=1,1
            [3,3]((9,24,59),(22,59,144),(7,19,46)); lvl=6; h,r-ind=1,1
            [3,3]((15,40,98),(22,59,144),(13,35,85)); lvl=6; h,r-ind=1,1
            [3,3]((9,24,59),(15,40,98),(22,59,144)); lvl=6; h,r-ind=1,1
          [4,3]((6,16,39),(4,11,26),(13,35,85),(15,40,98)); lvl=5; h,r-ind=1,1
            [3,3]((19,51,124),(13,35,85),(4,11,26)); lvl=6; h,r-ind=1,1
            [3,3]((6,16,39),(19,51,124),(4,11,26)); lvl=6; h,r-ind=1,1
            [3,3]((15,40,98),(19,51,124),(13,35,85)); lvl=6; h,r-ind=1,1
            [3,3]((6,16,39),(15,40,98),(19,51,124)); lvl=6; h,r-ind=1,1
          [3,3]((3,8,19),(6,16,39),(4,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,13),(9,24,59),(15,40,98)); lvl=5; h,r-ind=1,1
          [3,3]((6,16,39),(2,5,13),(15,40,98)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,19),(6,16,39),(2,5,13)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((9,24,59),(12,32,79),(7,19,46)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,13),(9,24,59),(12,32,79)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,26),(7,19,46),(13,35,85)); lvl=5; h,r-ind=1,1
        [4,3]((5,14,33),(4,11,26),(8,22,53),(7,19,46)); lvl=4; h,r-ind=1,1
          [3,3]((7,19,46),(4,11,26),(12,33,79)); lvl=5; h,r-ind=1,1
          [3,3]((5,14,33),(4,11,26),(12,33,79)); lvl=5; h,r-ind=1,1
          [3,3]((8,22,53),(5,14,33),(12,33,79)); lvl=5; h,r-ind=1,1
          [3,3]((8,22,53),(7,19,46),(12,33,79)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,13),(3,8,20),(12,32,79)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,20),(9,25,60),(8,22,53)); lvl=4; h,r-ind=1,1
        [3,3]((5,14,33),(9,25,60),(8,22,53)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,19),(4,10,25),(2,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,13),(3,8,19),(5,14,33)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((2,6,13),(5,14,33),(1,3,7),(9,25,60)); lvl=3; h,r-ind=1,1
        [3,3]((6,17,40),(5,14,33),(9,25,60)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(6,17,40),(9,25,60)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,13),(1,3,7),(6,17,40)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,13),(6,17,40),(5,14,33)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(4,10,27),(3,8,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(2,5,15),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,8),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,6,13),(1,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,10),(1,3,5),(2,6,13),(4,10,25)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,19),(2,6,13),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(3,8,19),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(4,10,23),(1,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,10),(4,10,23),(1,3,5),(1,3,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,5),(4,11,22),(1,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(4,11,22),(1,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(4,10,23),(1,3,6)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,10),(2,5,11),(1,3,5),(4,11,22)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,11),(4,11,22),(3,8,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,5),(4,11,22),(3,8,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,10),(2,5,11),(3,8,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,5),(2,5,10),(3,8,16)); lvl=5; h,r-ind=1,1
      [3,3]((4,10,25),(2,5,12),(3,8,19)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,5),(2,6,13)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[4,3]((2,5,15),(2,5,19),(1,2,8),(1,2,7)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,17),(2,5,19),(1,2,8),(6,13,47)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
    [4,3]((2,5,19),(2,5,18),(1,2,8),(4,9,33)); lvl=3; h,r-ind=1,2
      [3,3]((2,5,18),(4,9,33),(3,7,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(4,9,33),(3,7,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,19),(2,5,18),(3,7,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(2,5,19),(3,7,26)); lvl=4; h,r-ind=1,1
    [4,3]((6,13,47),(4,9,32),(1,2,8),(4,9,33)); lvl=3; h,r-ind=1,2
      [3,3]((4,9,32),(4,9,33),(5,11,40)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(4,9,33),(5,11,40)); lvl=4; h,r-ind=1,1
      [3,3]((6,13,47),(4,9,32),(5,11,40)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(6,13,47),(5,11,40)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,17),(2,5,18),(4,9,33)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((2,5,17),(4,9,32),(4,9,33)); lvl=3; h,r-ind=2,2; optimized-h
  [3,3]((1,2,7),(1,2,8),(6,13,47)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,7),(2,5,15),(2,5,17),(6,13,47)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
    [3,3]((2,5,16),(2,5,17),(4,9,31)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((4,9,32),(2,5,17),(4,9,31)); lvl=3; h,r-ind=2,2; optimized-h
    [4,3]((1,2,7),(4,9,32),(6,13,47),(4,9,31)); lvl=3; h,r-ind=1,2
      [3,3]((6,13,47),(5,11,39),(4,9,32)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,31),(5,11,39),(4,9,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(4,9,31),(5,11,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(6,13,47),(5,11,39)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,7),(2,5,16),(2,5,15),(4,9,31)); lvl=3; h,r-ind=1,2
      [3,3]((3,7,23),(2,5,15),(2,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,31),(3,7,23),(2,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(4,9,31),(3,7,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(3,7,23),(2,5,15)); lvl=4; h,r-ind=1,1
[3,3]((2,5,20),(2,5,19),(1,2,8)); lvl=1; h,r-ind=1,1
[4,3]((1,3,10),(1,3,8),(2,5,15),(2,5,19)); lvl=1; h,r-ind=2,1
  [4,3]((1,3,9),(2,5,17),(1,3,8),(2,5,15)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,8),(4,11,33),(2,5,15),(2,5,16)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,24),(2,5,15),(2,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,33),(3,8,24),(2,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(4,11,33),(3,8,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(3,8,24),(2,5,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,9),(4,11,33),(2,5,17),(2,5,16)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,17),(2,5,16),(3,8,25)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,33),(2,5,16),(3,8,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(4,11,33),(3,8,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(2,5,17),(3,8,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,9),(1,3,8),(4,11,33)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,10),(1,3,9),(2,5,19),(2,5,17)); lvl=2; h,r-ind=1,1
```

```
      [4,3]((1,3,9),(4,11,37),(2,5,17),(2,5,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,17),(3,8,27),(2,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,37),(3,8,27),(2,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(2,5,17),(3,8,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,37),(1,3,9),(3,8,27)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,10),(4,11,37),(2,5,19),(2,5,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,19),(3,8,28),(2,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,37),(3,8,28),(2,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,10),(2,5,19),(3,8,28)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,37),(1,3,10),(3,8,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,10),(1,3,9),(4,11,37)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,20),(1,3,10),(2,5,19)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,10),(1,3,8)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,5,10)); lvl=1; h,r-ind=10,10; optimized-h
  [3,3]((1,2,8),(2,3,12),(1,2,7)); lvl=1; h,r-ind=1,1
```

20.19 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,7,20)); lvl=0; h,r-ind=20,200
  [5,3]((2,6,9),(2,7,10),(2,7,13),(3,10,20),(1,3,6)); lvl=1; h,r-ind=1,1
    [4,3]((2,7,13),(4,14,23),(3,10,17),(3,10,19)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,12),(4,14,23),(3,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,18),(2,7,12),(3,10,17)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,13),(3,10,18),(3,10,19),(2,7,12)); lvl=3; h,r-ind=1,1
        [3,3]((5,17,31),(3,10,18),(3,10,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,13),(5,17,31),(3,10,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,12),(5,17,31),(3,10,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,13),(2,7,12),(5,17,31)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,5),(1,3,6),(3,10,17),(3,10,19)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,6),(5,16,29),(3,10,18),(3,10,19)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,16,29),(4,13,24),(3,10,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,19),(4,13,24),(3,10,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(3,10,19),(4,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(5,16,29),(4,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,6),(5,16,29)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,5),(5,16,29),(3,10,17),(3,10,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,13,23),(3,10,17),(3,10,18)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,29),(4,13,23),(3,10,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(5,16,29),(4,13,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,13,23),(3,10,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,13),(3,10,20),(3,10,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(3,10,20),(3,10,19)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(2,7,10),(4,14,23),(3,10,17)); lvl=2; h,r-ind=1,1
      [4,3]((3,10,17),(6,20,33),(4,14,23),(2,7,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,17,28),(4,14,23),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((6,20,33),(5,17,28),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,17),(6,20,33),(5,17,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,17),(5,17,28),(4,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(6,20,33),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,10),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(3,10,17),(6,20,33)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,6,9),(2,7,10)); lvl=2; h,r-ind=1,1
  [6,3]((2,5,14),(4,7,19),(4,13,36),(3,10,27),(3,10,20),(1,3,6)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,6),(1,2,5),(3,8,20),(1,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,12),(3,8,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,12),(3,8,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,3,7),(2,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,2,5),(2,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((4,11,28),(2,6,15),(3,8,20),(1,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,6,15),(1,3,7),(5,14,35)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,20),(1,3,7),(5,14,35)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,28),(2,6,15),(5,14,35)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,20),(4,11,28),(5,14,35)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,15),(1,3,8),(6,20,47),(3,10,27)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,24),(3,10,25),(5,16,40)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [5,3]((13,41,103),(1,3,8),(3,10,27),(3,10,25),(5,16,40)); lvl=3; h,r-ind=1,1
        [4,3]((5,16,41),(3,10,27),(3,10,26),(1,3,8)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,10,26),(3,10,27),(4,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(3,10,27),(4,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((5,16,41),(3,10,26),(4,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(5,16,41),(4,13,34)); lvl=5; h,r-ind=1,1
        [4,3]((6,19,48),(10,32,81),(5,16,41),(1,3,8)); lvl=4; h,r-ind=1,1
          [3,3]((5,16,41),(10,32,81),(11,35,89)); lvl=5; h,r-ind=1,1
          [3,3]((6,19,48),(10,32,81),(11,35,89)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(6,19,48),(11,35,89)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(5,16,41),(11,35,89)); lvl=5; h,r-ind=1,1
        [3,3]((13,41,103),(6,19,48),(1,3,8)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((5,16,41),(3,10,25),(3,10,26)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((9,29,73),(10,32,81),(5,16,41),(3,10,25)); lvl=4; h,r-ind=1,1
        [4,3]((23,74,187),(4,13,33),(5,16,41),(10,32,81)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((14,45,114),(5,16,41),(4,13,33)); lvl=6; h,r-ind=1,1
          [3,3]((23,74,187),(14,45,114),(4,13,33)); lvl=6; h,r-ind=1,1
          [3,3]((10,32,81),(23,74,187),(14,45,114)); lvl=6; h,r-ind=1,1
          [3,3]((10,32,81),(14,45,114),(5,16,41)); lvl=6; h,r-ind=1,1
        [3,3]((9,29,73),(23,74,187),(10,32,81)); lvl=5; h,r-ind=1,1
        [4,3]((9,29,73),(23,74,187),(4,13,33),(3,10,25)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,13,33),(13,42,106),(23,74,187)); lvl=6; h,r-ind=1,1
          [3,3]((9,29,73),(13,42,106),(23,74,187)); lvl=6; h,r-ind=1,1
          [3,3]((3,10,25),(9,29,73),(13,42,106)); lvl=6; h,r-ind=1,1
          [3,3]((3,10,25),(4,13,33),(13,42,106)); lvl=6; h,r-ind=1,1
      [3,3]((9,29,73),(5,16,40),(3,10,25)); lvl=4; h,r-ind=1,1
      [4,3]((6,19,48),(9,29,73),(10,32,81),(5,16,40)); lvl=4; h,r-ind=1,1
        [3,3]((9,29,73),(10,32,81),(15,48,121)); lvl=5; h,r-ind=1,1
        [3,3]((6,19,48),(10,32,81),(15,48,121)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,40),(6,19,48),(15,48,121)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,40),(9,29,73),(15,48,121)); lvl=5; h,r-ind=1,1
      [3,3]((13,41,103),(6,19,48),(5,16,40)); lvl=4; h,r-ind=1,1
    [4,3]((2,6,15),(7,22,55),(13,41,103),(1,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((8,25,63),(7,22,55),(13,41,103)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(8,25,63),(13,41,103)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,15),(1,3,8),(8,25,63)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,15),(8,25,63),(7,22,55)); lvl=4; h,r-ind=1,1
    [5,3]((7,22,55),(13,41,103),(4,13,31),(3,10,24),(5,16,40)); lvl=3; h,r-ind=1,1
      [4,3]((12,38,95),(10,32,79),(4,13,32),(5,16,40)); lvl=4; h,r-ind=1,1
        [4,3]((10,32,79),(11,35,87),(4,13,32),(20,64,159)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((11,35,87),(20,64,159),(15,48,119)); lvl=6; h,r-ind=1,1
          [3,3]((4,13,32),(20,64,159),(15,48,119)); lvl=6; h,r-ind=1,1
          [3,3]((10,32,79),(4,13,32),(15,48,119)); lvl=6; h,r-ind=1,1
          [3,3]((10,32,79),(11,35,87),(15,48,119)); lvl=6; h,r-ind=1,1
        [3,3]((5,16,40),(4,13,32),(20,64,159)); lvl=5; h,r-ind=1,1
        [4,3]((5,16,40),(12,38,95),(11,35,87),(20,64,159)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((11,35,87),(16,51,127),(12,38,95)); lvl=6; h,r-ind=1,1
          [3,3]((5,16,40),(16,51,127),(12,38,95)); lvl=6; h,r-ind=1,1
          [3,3]((20,64,159),(5,16,40),(16,51,127)); lvl=6; h,r-ind=1,1
          [3,3]((20,64,159),(11,35,87),(16,51,127)); lvl=6; h,r-ind=1,1
      [3,3]((13,41,103),(12,38,95),(5,16,40)); lvl=4; h,r-ind=1,1
      [4,3]((7,22,55),(11,35,86),(12,38,95),(10,32,79)); lvl=4; h,r-ind=1,1
        [3,3]((10,32,79),(6,19,47),(11,35,86)); lvl=5; h,r-ind=1,1
        [3,3]((11,35,87),(10,32,79),(6,19,47)); lvl=5; h,r-ind=1,1
        [4,3]((7,22,55),(11,35,87),(12,38,95),(6,19,47)); lvl=5; h,r-ind=1,1
          [3,3]((18,57,142),(11,35,87),(12,38,95)); lvl=6; h,r-ind=1,1
          [3,3]((7,22,55),(18,57,142),(12,38,95)); lvl=6; h,r-ind=1,1
          [3,3]((18,57,142),(6,19,47),(11,35,87)); lvl=6; h,r-ind=1,1
          [3,3]((7,22,55),(18,57,142),(6,19,47)); lvl=6; h,r-ind=1,1
      [3,3]((13,41,103),(7,22,55),(12,38,95)); lvl=4; h,r-ind=1,1
      [5,3]((11,35,86),(4,13,31),(10,32,79),(3,10,24),(4,13,32)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,32),(12,39,95),(3,10,24)); lvl=5; h,r-ind=1,1
        [4,3]((5,16,39),(4,13,31),(12,39,95),(3,10,24)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,13,31),(8,26,63),(3,10,24)); lvl=6; h,r-ind=1,1
          [3,3]((12,39,95),(8,26,63),(3,10,24)); lvl=6; h,r-ind=1,1
          [3,3]((5,16,39),(12,39,95),(8,26,63)); lvl=6; h,r-ind=1,1
          [3,3]((5,16,39),(4,13,31),(8,26,63)); lvl=6; h,r-ind=1,1
        [4,3]((5,16,39),(19,61,150),(4,13,32),(12,39,95)); lvl=5; h,r-ind=1,1
          [3,3]((9,29,71),(4,13,32),(19,61,150)); lvl=6; h,r-ind=1,1
          [3,3]((5,16,39),(9,29,71),(19,61,150)); lvl=6; h,r-ind=1,1
          [3,3]((12,39,95),(9,29,71),(4,13,32)); lvl=6; h,r-ind=1,1
          [3,3]((5,16,39),(12,39,95),(9,29,71)); lvl=6; h,r-ind=1,1
        [3,3]((10,32,79),(19,61,150),(4,13,32)); lvl=5; h,r-ind=1,1
        [4,3]((11,35,86),(5,16,39),(10,32,79),(19,61,150)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,16,39),(19,61,150),(15,48,118)); lvl=6; h,r-ind=1,1
          [3,3]((10,32,79),(19,61,150),(15,48,118)); lvl=6; h,r-ind=1,1
          [3,3]((11,35,86),(5,16,39),(15,48,118)); lvl=6; h,r-ind=1,1
          [3,3]((10,32,79),(11,35,86),(15,48,118)); lvl=6; h,r-ind=1,1
    [3,3]((2,6,15),(7,22,55),(4,13,31)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,13,31),(6,20,47),(3,10,24)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,8),(4,13,36),(3,10,27)); lvl=2; h,r-ind=1,1
  [4,3]((3,8,21),(4,11,28),(2,6,15),(1,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,28),(2,6,15),(5,14,36)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(2,6,15),(5,14,36)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,21),(4,11,28),(5,14,36)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(3,8,21),(5,14,36)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,6),(3,10,20),(1,3,7)); lvl=2; h,r-ind=1,1
  [4,3]((2,6,15),(6,20,47),(3,10,20),(1,3,7)); lvl=2; h,r-ind=1,1
    [5,3]((1,3,7),(13,41,96),(3,10,20),(3,10,22),(5,16,37)); lvl=3; h,r-ind=1,1
      [3,3]((9,29,66),(3,10,22),(5,16,37)); lvl=4; h,r-ind=1,1
      [4,3]((9,29,66),(10,32,73),(6,19,44),(5,16,37)); lvl=4; h,r-ind=1,1
        [3,3]((10,32,73),(6,19,44),(15,48,110)); lvl=5; h,r-ind=1,1
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      [3,3]((5,16,37),(6,19,44),(15,48,110)); lvl=5; h,r-ind=1,1
      [3,3]((9,29,66),(5,16,37),(15,48,110)); lvl=5; h,r-ind=1,1
      [3,3]((9,29,66),(10,32,73),(15,48,110)); lvl=5; h,r-ind=1,1
    [3,3]((13,41,96),(6,19,44),(5,16,37)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,7),(13,41,96),(6,19,44)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,7),(5,16,36),(10,32,73),(6,19,44)); lvl=4; h,r-ind=1,1
      [3,3]((5,16,36),(10,32,73),(11,35,80)); lvl=5; h,r-ind=1,1
      [3,3]((6,19,44),(10,32,73),(11,35,80)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,7),(5,16,36),(11,35,80)); lvl=5; h,r-ind=1,1
      [3,3]((6,19,44),(1,3,7),(11,35,80)); lvl=5; h,r-ind=1,1
    [4,3]((9,29,66),(5,16,36),(10,32,73),(3,10,22)); lvl=4; h,r-ind=1,1
      [4,3]((10,32,73),(23,74,168),(4,13,29),(5,16,36)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,13,29),(14,45,102),(23,74,168)); lvl=6; h,r-ind=1,1
        [3,3]((10,32,73),(14,45,102),(23,74,168)); lvl=6; h,r-ind=1,1
        [3,3]((5,16,36),(10,32,73),(14,45,102)); lvl=6; h,r-ind=1,1
        [3,3]((5,16,36),(4,13,29),(14,45,102)); lvl=6; h,r-ind=1,1
      [3,3]((9,29,66),(10,32,73),(23,74,168)); lvl=5; h,r-ind=1,1
      [4,3]((3,10,22),(9,29,66),(23,74,168),(4,13,29)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((9,29,66),(13,42,95),(23,74,168)); lvl=6; h,r-ind=1,1
        [3,3]((4,13,29),(13,42,95),(23,74,168)); lvl=6; h,r-ind=1,1
        [3,3]((3,10,22),(4,13,29),(13,42,95)); lvl=6; h,r-ind=1,1
        [3,3]((3,10,22),(9,29,66),(13,42,95)); lvl=6; h,r-ind=1,1
    [3,3]((5,16,36),(3,10,21),(3,10,22)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,3,7),(5,16,36),(3,10,20),(3,10,21)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,13,28),(3,10,20),(3,10,21)); lvl=5; h,r-ind=1,1
      [3,3]((5,16,36),(4,13,28),(3,10,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,7),(5,16,36),(4,13,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,7),(4,13,28),(3,10,20)); lvl=5; h,r-ind=1,1
  [3,3]((3,10,23),(3,10,22),(5,16,37)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((4,13,31),(7,22,52),(13,41,96),(3,10,23),(5,16,37)); lvl=3; h,r-ind=1,1
    [4,3]((12,38,89),(10,32,75),(5,16,37),(4,13,30)); lvl=4; h,r-ind=1,1
      [4,3]((11,35,82),(20,64,149),(4,13,30),(10,32,75)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((20,64,149),(4,13,30),(15,48,112)); lvl=6; h,r-ind=1,1
        [3,3]((10,32,75),(4,13,30),(15,48,112)); lvl=6; h,r-ind=1,1
        [3,3]((11,35,82),(10,32,75),(15,48,112)); lvl=6; h,r-ind=1,1
        [3,3]((11,35,82),(20,64,149),(15,48,112)); lvl=6; h,r-ind=1,1
      [3,3]((5,16,37),(20,64,149),(4,13,30)); lvl=5; h,r-ind=1,1
      [4,3]((12,38,89),(11,35,82),(5,16,37),(20,64,149)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,16,37),(16,51,119),(20,64,149)); lvl=6; h,r-ind=1,1
        [3,3]((11,35,82),(16,51,119),(20,64,149)); lvl=6; h,r-ind=1,1
        [3,3]((12,38,89),(11,35,82),(16,51,119)); lvl=6; h,r-ind=1,1
        [3,3]((12,38,89),(5,16,37),(16,51,119)); lvl=6; h,r-ind=1,1
    [5,3]((4,13,31),(10,32,75),(11,35,83),(3,10,23),(4,13,30)); lvl=4; h,r-ind=1,1
      [4,3]((5,16,38),(11,35,83),(10,32,75),(19,61,143)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((15,48,113),(11,35,83),(10,32,75)); lvl=6; h,r-ind=1,1
        [3,3]((19,61,143),(15,48,113),(10,32,75)); lvl=6; h,r-ind=1,1
        [3,3]((5,16,38),(19,61,143),(15,48,113)); lvl=6; h,r-ind=1,1
        [3,3]((5,16,38),(15,48,113),(11,35,83)); lvl=6; h,r-ind=1,1
      [3,3]((4,13,30),(10,32,75),(19,61,143)); lvl=5; h,r-ind=1,1
      [4,3]((5,16,38),(4,13,30),(12,39,91),(19,61,143)); lvl=5; h,r-ind=1,1
        [3,3]((12,39,91),(9,29,68),(4,13,30)); lvl=6; h,r-ind=1,1
        [3,3]((19,61,143),(9,29,68),(4,13,30)); lvl=6; h,r-ind=1,1
        [3,3]((5,16,38),(19,61,143),(9,29,68)); lvl=6; h,r-ind=1,1
        [3,3]((5,16,38),(12,39,91),(9,29,68)); lvl=6; h,r-ind=1,1
      [3,3]((3,10,23),(4,13,30),(12,39,91)); lvl=5; h,r-ind=1,1
      [4,3]((4,13,31),(5,16,38),(3,10,23),(12,39,91)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,16,38),(12,39,91),(8,26,61)); lvl=6; h,r-ind=1,1
        [3,3]((3,10,23),(12,39,91),(8,26,61)); lvl=6; h,r-ind=1,1
        [3,3]((4,13,31),(3,10,23),(8,26,61)); lvl=6; h,r-ind=1,1
        [3,3]((4,13,31),(5,16,38),(8,26,61)); lvl=6; h,r-ind=1,1
    [4,3]((7,22,52),(12,38,89),(10,32,75),(11,35,83)); lvl=4; h,r-ind=1,1
      [3,3]((6,19,45),(10,32,75),(11,35,82)); lvl=5; h,r-ind=1,1
      [4,3]((7,22,52),(6,19,45),(12,38,89),(11,35,82)); lvl=5; h,r-ind=1,1
        [3,3]((18,57,134),(11,35,82),(6,19,45)); lvl=6; h,r-ind=1,1
        [3,3]((7,22,52),(18,57,134),(6,19,45)); lvl=6; h,r-ind=1,1
        [3,3]((12,38,89),(18,57,134),(11,35,82)); lvl=6; h,r-ind=1,1
        [3,3]((7,22,52),(12,38,89),(18,57,134)); lvl=6; h,r-ind=1,1
      [3,3]((11,35,83),(6,19,45),(10,32,75)); lvl=5; h,r-ind=1,1
    [3,3]((12,38,89),(13,41,96),(5,16,37)); lvl=4; h,r-ind=1,1
    [3,3]((7,22,52),(12,38,89),(13,41,96)); lvl=4; h,r-ind=1,1
  [3,3]((4,13,31),(6,20,47),(3,10,23)); lvl=3; h,r-ind=1,1
  [3,3]((2,6,15),(4,13,31),(7,22,52)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,6,15),(1,3,7),(7,22,52),(13,41,96)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(8,25,59),(13,41,96)); lvl=4; h,r-ind=1,1
    [3,3]((7,22,52),(8,25,59),(13,41,96)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,15),(7,22,52),(8,25,59)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,15),(1,3,7),(8,25,59)); lvl=4; h,r-ind=1,1
[4,3]((3,8,21),(4,11,28),(1,2,5),(3,8,20)); lvl=2; h,r-ind=1,1
  [3,3]((4,11,28),(9,24,61),(3,8,20)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,13),(1,2,5),(9,24,61),(3,8,20)); lvl=3; h,r-ind=1,2; alert-r-inc
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      [3,3]((5,13,33),(3,8,20),(9,24,61)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(5,13,33),(9,24,61)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(5,13,33),(3,8,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(1,2,5),(5,13,33)); lvl=4; h,r-ind=1,1
    [4,3]((3,8,21),(2,5,13),(4,11,28),(9,24,61)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((9,24,61),(2,5,13),(6,16,41)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,21),(2,5,13),(6,16,41)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,28),(3,8,21),(6,16,41)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,28),(9,24,61),(6,16,41)); lvl=4; h,r-ind=1,1
  [3,3]((3,8,21),(2,4,11),(1,2,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,4,11),(4,7,19),(1,2,5)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,14),(3,8,21),(1,3,8),(2,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,19),(1,3,8),(3,8,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,11),(3,7,19),(3,8,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,14),(3,7,19),(1,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,11),(2,5,14),(3,7,19)); lvl=3; h,r-ind=1,1
  [3,3]((3,9,25),(2,5,14),(1,3,8)); lvl=2; h,r-ind=1,1
  [3,3]((3,9,25),(1,3,8),(4,13,36)); lvl=2; h,r-ind=1,1
[3,3]((2,7,20),(2,5,14),(4,13,36)); lvl=1; h,r-ind=4,2; optimized-h
[3,3]((1,0,0),(2,7,20),(2,5,14)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((1,0,0),(2,5,14),(4,7,19)); lvl=1; h,r-ind=3,3; optimized-h
[4,3]((1,0,0),(4,7,19),(2,6,9),(1,3,6)); lvl=1; h,r-ind=3,3
  [4,3]((2,3,6),(1,2,5),(1,3,6),(1,3,5)); lvl=2; h,r-ind=1,3
    [3,3]((1,2,4),(1,2,5),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,4),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,4),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,3,6),(1,2,4)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,6),(1,2,3),(1,3,5)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
  [3,3]((1,2,3),(2,6,9),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,6),(1,2,3)); lvl=2; h,r-ind=3,3; optimized-h
  [4,3]((2,3,6),(3,4,10),(4,5,12),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,10),(4,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,9),(2,3,7),(4,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(3,4,9),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,6),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,7),(3,4,10)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,6),(2,2,5),(4,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,14),(3,4,9),(4,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,5),(5,6,14),(8,9,21),(4,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,21),(7,8,19),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,12),(7,8,19),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,5),(4,5,12),(7,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,5),(8,9,21),(7,8,19)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,2),(1,0,0),(2,2,5),(8,9,21)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,2,5),(1,0,0),(3,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,0,0),(3,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,21),(2,2,5),(3,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(8,9,21),(3,3,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,2),(5,6,14),(8,9,21),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,16),(8,9,21),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(6,7,16),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,9),(6,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(6,7,16),(8,9,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(3,4,9)); lvl=3; h,r-ind=1,1
  [4,3]((7,9,23),(3,4,10),(1,2,5),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,18),(3,4,10),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,8),(5,7,18),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,23),(5,7,18),(3,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,8),(7,9,23),(5,7,18)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,5),(4,7,19),(2,3,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(4,7,19),(2,3,8)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,2,5),(7,9,23),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,5),(7,9,23),(4,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,8),(7,9,23),(4,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,8),(4,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,5),(4,5,13)); lvl=3; h,r-ind=1,1
  [4,3]((2,2,5),(7,9,23),(3,4,10),(4,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,23),(3,4,10),(5,6,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,12),(3,4,10),(5,6,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,5),(4,5,12),(5,6,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,5),(7,9,23),(5,6,15)); lvl=3; h,r-ind=1,1
[4,3]((1,0,0),(0,1,0),(2,6,9),(2,7,10)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,3),(1,3,4),(1,2,2),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,5),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,5,5),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,4),(2,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,3,4),(0,1,0),(1,4,5),(2,5,5)); lvl=2; h,r-ind=1,1
```

```
      [4,3]((1,4,5),(0,1,0),(2,7,8),(2,7,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,8),(1,4,4),(2,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,4,4),(2,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,8),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,4,5),(1,4,4)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(1,3,3),(2,7,8),(2,7,7)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,8),(2,7,7),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,7),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,8),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,3,4),(3,10,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,5),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(0,1,0),(2,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(1,3,3),(0,1,0)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,5),(2,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,5),(2,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(1,2,3),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(1,3,4),(2,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((0,1,0),(1,4,7),(2,7,10),(2,7,13)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,13),(4,14,23)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,4,5),(1,4,6),(2,7,10),(4,14,23)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,11),(4,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,22),(1,4,6),(2,7,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,5),(4,15,22),(2,7,10),(2,7,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,10),(3,11,16),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,22),(3,11,16),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,10),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,22),(1,4,5),(3,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(4,15,22),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,7),(1,4,6),(2,7,13)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,7),(1,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,10),(0,1,0),(1,4,7)); lvl=1; h,r-ind=3,3; optimized-h
  [6,3]((1,4,10),(3,10,27),(2,7,19),(1,4,7),(2,7,13),(3,10,20)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,14),(2,7,13),(3,10,20)); lvl=2; h,r-ind=1,1
    [4,3]((6,20,47),(2,7,14),(2,7,16),(3,10,20)); lvl=2; h,r-ind=1,1
      [4,3]((3,10,20),(3,10,22),(2,7,15),(2,7,14)); lvl=3; h,r-ind=1,1
        [4,3]((3,10,21),(3,10,22),(2,7,15),(7,24,50)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,17,36),(3,10,22),(2,7,15)); lvl=5; h,r-ind=1,1
          [3,3]((7,24,50),(5,17,36),(2,7,15)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,21),(7,24,50),(5,17,36)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,21),(5,17,36),(3,10,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,14),(2,7,15),(7,24,50)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,14),(3,10,20),(3,10,21),(7,24,50)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,17,35),(3,10,21),(3,10,20)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,14),(5,17,35),(3,10,20)); lvl=5; h,r-ind=1,1
          [3,3]((5,17,35),(7,24,50),(3,10,21)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,14),(5,17,35),(7,24,50)); lvl=5; h,r-ind=1,1
      [4,3]((3,10,23),(3,10,22),(2,7,16),(2,7,15)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,15),(2,7,16),(5,17,38)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,23),(2,7,16),(5,17,38)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,22),(3,10,23),(5,17,38)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,22),(2,7,15),(5,17,38)); lvl=4; h,r-ind=1,1
      [3,3]((6,20,47),(3,10,23),(2,7,16)); lvl=3; h,r-ind=1,1
    [4,3]((3,10,27),(6,20,47),(2,7,18),(2,7,16)); lvl=2; h,r-ind=1,1
      [4,3]((3,10,24),(3,10,25),(2,7,16),(2,7,17)); lvl=3; h,r-ind=1,1
        [3,3]((5,17,41),(2,7,17),(2,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,24),(5,17,41),(2,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,25),(5,17,41),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,24),(3,10,25),(5,17,41)); lvl=4; h,r-ind=1,1
      [4,3]((3,10,27),(3,10,25),(2,7,18),(2,7,17)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,18),(2,7,17),(7,24,61)); lvl=4; h,r-ind=1,1
        [4,3]((3,10,26),(3,10,25),(2,7,17),(7,24,61)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,10,25),(2,7,17),(5,17,43)); lvl=5; h,r-ind=1,1
          [3,3]((7,24,61),(2,7,17),(5,17,43)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,26),(3,10,25),(5,17,43)); lvl=5; h,r-ind=1,1
          [3,3]((7,24,61),(3,10,26),(5,17,43)); lvl=5; h,r-ind=1,1
        [4,3]((3,10,27),(3,10,26),(2,7,18),(7,24,61)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,10,26),(7,24,61),(5,17,44)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,18),(7,24,61),(5,17,44)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,27),(2,7,18),(5,17,44)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,27),(3,10,26),(5,17,44)); lvl=5; h,r-ind=1,1
      [3,3]((6,20,47),(3,10,24),(2,7,16)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,10),(2,8,17),(2,7,18),(2,7,16)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,9),(2,7,17),(2,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(2,8,17),(2,7,16)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,9),(1,4,10),(2,7,18),(2,7,17)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,10),(2,7,18),(3,11,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,17),(2,7,18),(3,11,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(1,4,10),(3,11,27)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((2,7,17),(1,4,9),(3,11,27)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,19),(3,10,27),(2,7,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,10),(2,7,19),(2,7,18)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,14),(1,4,7),(2,7,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,17),(2,7,14),(2,7,16),(1,4,7)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,8),(1,4,7),(2,7,14),(2,7,15)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,7),(2,7,14),(3,11,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,15),(2,7,14),(3,11,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(1,4,7),(3,11,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,15),(1,4,8),(3,11,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(2,7,16),(2,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,17),(1,4,8),(2,7,16)); lvl=3; h,r-ind=1,1
  [4,3]((2,7,20),(4,13,36),(3,10,27),(2,7,19)); lvl=1; h,r-ind=1,1
    [4,3]((3,10,28),(8,27,74),(3,10,27),(4,13,36)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((8,27,74),(6,20,55),(3,10,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,36),(6,20,55),(3,10,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,28),(4,13,36),(6,20,55)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,28),(8,27,74),(6,20,55)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,19),(8,27,74),(3,10,27)); lvl=2; h,r-ind=1,1
    [4,3]((3,10,28),(2,7,20),(2,7,19),(8,27,74)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,17,47),(2,7,19),(2,7,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,28),(5,17,47),(2,7,20)); lvl=3; h,r-ind=1,1
      [3,3]((8,27,74),(5,17,47),(2,7,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,28),(8,27,74),(5,17,47)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,20),(1,4,10),(2,7,19)); lvl=1; h,r-ind=1,1
```

20.20 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,9,20)); lvl=0; h,r-ind=20,200
  [6,3]((1,3,6),(10,41,90),(3,6,13),(9,37,81),(3,12,26),(1,1,2)); lvl=1; h,r-ind=1,1
    [4,3]((4,13,28),(2,6,13),(1,2,4),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,17),(2,6,13),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,8,17),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,28),(3,8,17),(2,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(4,13,28),(3,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,13),(2,6,13),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((5,18,39),(4,13,28),(2,6,13),(3,11,24)); lvl=2; h,r-ind=1,1
      [3,3]((7,24,52),(4,13,28),(2,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,24),(7,24,52),(2,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,39),(3,11,24),(7,24,52)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,39),(7,24,52),(4,13,28)); lvl=3; h,r-ind=1,1
    [4,3]((4,16,35),(5,18,39),(3,11,24),(6,23,50)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,24),(5,18,39),(9,34,74)); lvl=3; h,r-ind=1,1
      [3,3]((6,23,50),(5,18,39),(9,34,74)); lvl=3; h,r-ind=1,1
      [3,3]((4,16,35),(3,11,24),(9,34,74)); lvl=3; h,r-ind=1,1
      [3,3]((6,23,50),(4,16,35),(9,34,74)); lvl=3; h,r-ind=1,1
    [4,3]((10,41,90),(13,47,103),(4,16,35),(3,11,24)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,24),(7,26,57),(13,47,103)); lvl=3; h,r-ind=1,1
      [4,3]((3,11,24),(8,31,68),(22,85,186),(7,26,57)); lvl=3; h,r-ind=1,1
        [4,3]((11,42,92),(15,58,127),(29,111,243),(8,31,68)); lvl=4; h,r-ind=1,1
          [3,3]((15,58,127),(29,111,243),(26,100,219)); lvl=5; h,r-ind=1,1
          [3,3]((11,42,92),(29,111,243),(26,100,219)); lvl=5; h,r-ind=1,1
          [3,3]((11,42,92),(8,31,68),(26,100,219)); lvl=5; h,r-ind=1,1
          [3,3]((8,31,68),(15,58,127),(26,100,219)); lvl=5; h,r-ind=1,1
        [3,3]((7,26,57),(11,42,92),(8,31,68)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,24),(11,42,92),(29,111,243)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,24),(7,26,57),(11,42,92)); lvl=4; h,r-ind=1,1
        [4,3]((3,11,24),(15,58,127),(22,85,186),(29,111,243)); lvl=4; h,r-ind=1,1
          [3,3]((22,85,186),(18,69,151),(15,58,127)); lvl=5; h,r-ind=1,1
          [3,3]((29,111,243),(18,69,151),(15,58,127)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,24),(29,111,243),(18,69,151)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,24),(22,85,186),(18,69,151)); lvl=5; h,r-ind=1,1
      [4,3]((4,16,35),(10,41,90),(8,31,68),(22,85,186)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((4,16,35),(16,63,138),(10,41,90),(9,36,79)); lvl=4; h,r-ind=1,2
          [3,3]((16,63,138),(13,52,114),(9,36,79)); lvl=5; h,r-ind=1,1
          [3,3]((10,41,90),(13,52,114),(9,36,79)); lvl=5; h,r-ind=1,1
          [3,3]((4,16,35),(10,41,90),(13,52,114)); lvl=5; h,r-ind=1,1
          [3,3]((4,16,35),(16,63,138),(13,52,114)); lvl=5; h,r-ind=1,1
        [3,3]((16,63,138),(8,31,68),(9,36,79)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((16,63,138),(15,58,127),(8,31,68)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((4,16,35),(16,63,138),(15,58,127),(22,85,186)); lvl=4; h,r-ind=1,2
          [3,3]((16,63,138),(19,74,162),(15,58,127)); lvl=5; h,r-ind=1,1
          [3,3]((22,85,186),(19,74,162),(15,58,127)); lvl=5; h,r-ind=1,1
          [3,3]((4,16,35),(16,63,138),(19,74,162)); lvl=5; h,r-ind=1,1
          [3,3]((22,85,186),(4,16,35),(19,74,162)); lvl=5; h,r-ind=1,1
      [3,3]((4,16,35),(3,11,24),(22,85,186)); lvl=3; h,r-ind=1,1
    [4,3]((3,6,13),(13,47,103),(2,6,13),(3,11,24)); lvl=2; h,r-ind=1,1
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      [3,3]((6,21,46),(13,47,103),(3,11,24)); lvl=3; h,r-ind=1,1
      [4,3]((15,50,109),(5,16,35),(6,21,46),(3,11,24)); lvl=3; h,r-ind=1,1
        [3,3]((8,27,59),(5,16,35),(6,21,46)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,24),(8,27,59),(6,21,46)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,24),(8,27,59),(21,71,155)); lvl=4; h,r-ind=1,1
        [4,3]((10,33,72),(8,27,59),(21,71,155),(5,16,35)); lvl=4; h,r-ind=1,1
          [3,3]((21,71,155),(18,60,131),(8,27,59)); lvl=5; h,r-ind=1,1
          [3,3]((5,16,35),(18,60,131),(8,27,59)); lvl=5; h,r-ind=1,1
          [3,3]((10,33,72),(21,71,155),(18,60,131)); lvl=5; h,r-ind=1,1
          [3,3]((5,16,35),(10,33,72),(18,60,131)); lvl=5; h,r-ind=1,1
        [4,3]((3,11,24),(15,50,109),(10,33,72),(21,71,155)); lvl=4; h,r-ind=1,1
          [3,3]((13,44,96),(10,33,72),(15,50,109)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,24),(13,44,96),(15,50,109)); lvl=5; h,r-ind=1,1
          [3,3]((21,71,155),(3,11,24),(13,44,96)); lvl=5; h,r-ind=1,1
          [3,3]((21,71,155),(13,44,96),(10,33,72)); lvl=5; h,r-ind=1,1
      [3,3]((15,50,109),(2,6,13),(3,11,24)); lvl=3; h,r-ind=1,1
      [4,3]((3,6,13),(15,50,109),(5,16,35),(2,6,13)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [3,3]((9,28,61),(5,16,35),(10,33,72)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((2,6,13),(9,28,61),(15,50,109),(10,33,72)); lvl=4; h,r-ind=1,2
          [3,3]((12,39,85),(10,33,72),(9,28,61)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,13),(12,39,85),(9,28,61)); lvl=5; h,r-ind=1,1
          [3,3]((15,50,109),(12,39,85),(10,33,72)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,13),(15,50,109),(12,39,85)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,24),(9,28,61),(5,16,35)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((2,6,13),(3,6,13),(4,11,24),(9,28,61)); lvl=4; h,r-ind=1,2
          [3,3]((4,11,24),(3,6,13),(6,17,37)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,13),(3,6,13),(6,17,37)); lvl=5; h,r-ind=1,1
          [3,3]((9,28,61),(4,11,24),(6,17,37)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,13),(9,28,61),(6,17,37)); lvl=5; h,r-ind=1,1
    [4,3]((5,18,39),(4,13,28),(1,3,6),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,28),(7,22,47),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,15),(7,22,47),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,15),(1,3,6),(1,2,4)); lvl=3; h,r-ind=1,1
      [4,3]((5,18,39),(2,7,15),(4,13,28),(7,22,47)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,15),(7,22,47),(6,20,43)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,28),(7,22,47),(6,20,43)); lvl=4; h,r-ind=1,1
        [3,3]((5,18,39),(2,7,15),(6,20,43)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,28),(5,18,39),(6,20,43)); lvl=4; h,r-ind=1,1
    [4,3]((5,18,39),(5,19,41),(6,23,50),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((6,23,50),(5,19,41),(13,49,106)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,15),(1,3,6),(5,19,41),(13,49,106)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,26,56),(1,3,6),(5,19,41)); lvl=4; h,r-ind=1,1
        [3,3]((13,49,106),(7,26,56),(5,19,41)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,15),(13,49,106),(7,26,56)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,15),(7,26,56),(1,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,15),(6,23,50),(13,49,106)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,39),(2,7,15),(6,23,50)); lvl=3; h,r-ind=1,1
    [3,3]((3,12,26),(5,19,41),(1,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((3,12,26),(4,16,35),(5,19,41),(6,23,50)); lvl=2; h,r-ind=1,1
      [3,3]((4,16,35),(6,23,50),(9,35,76)); lvl=3; h,r-ind=1,1
      [3,3]((5,19,41),(6,23,50),(9,35,76)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,26),(5,19,41),(9,35,76)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,26),(4,16,35),(9,35,76)); lvl=3; h,r-ind=1,1
    [3,3]((9,37,81),(3,12,26),(4,16,35)); lvl=2; h,r-ind=1,1
    [3,3]((10,41,90),(9,37,81),(4,16,35)); lvl=2; h,r-ind=1,1
[6,3]((1,3,6),(2,2,3),(2,9,10),(1,4,6),(2,9,11),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,4),(4,11,13),(2,2,3),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(2,4,5),(2,5,6),(6,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,5,6),(3,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,6),(3,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(8,19,25),(3,7,9)); lvl=4; h,r-ind=1,1
      [4,3]((8,19,25),(4,9,12),(2,4,5),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,21),(2,4,5),(4,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((8,19,25),(7,16,21),(4,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((7,16,21),(3,7,9),(2,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((8,19,25),(7,16,21),(3,7,9)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,4),(8,19,25),(6,14,19),(4,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((8,19,25),(4,9,12),(5,12,16)); lvl=5; h,r-ind=1,1
        [3,3]((6,14,19),(4,9,12),(5,12,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(6,14,19),(5,12,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(8,19,25),(5,12,16)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,4),(4,11,13),(2,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(2,2,3),(2,4,5),(6,14,19)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,2,3),(4,8,11),(2,3,4),(2,2,3)); lvl=4; h,r-ind=1,2
        [3,3]((3,5,7),(4,8,11),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,3),(3,5,7),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(2,2,3),(3,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(3,5,7),(4,8,11)); lvl=5; h,r-ind=1,1
      [3,3]((4,8,11),(2,4,5),(2,3,4)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((4,9,12),(4,8,11),(2,4,5)); lvl=4; h,r-ind=2,2; optimized-h
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      [4,3]((1,2,3),(4,9,12),(6,14,19),(4,8,11)); lvl=4; h,r-ind=1,2
        [3,3]((5,11,15),(4,9,12),(6,14,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(5,11,15),(6,14,19)); lvl=5; h,r-ind=1,1
        [3,3]((4,8,11),(5,11,15),(4,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(4,8,11),(5,11,15)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,4),(1,2,3),(6,14,19)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,2),(2,2,3),(1,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,4),(2,5,8),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,7),(2,5,8),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,4,7),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,1,2),(2,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,4,7),(2,5,8)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,8),(2,6,9),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,12),(1,3,4),(2,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(3,8,12),(2,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,8),(3,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,8,12),(1,3,4)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,6),(1,2,4),(2,5,8),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,8),(4,10,17)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,9),(1,3,5),(2,5,8),(4,10,17)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,8),(4,10,17),(3,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(4,10,17),(3,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(1,3,5),(3,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(2,5,8),(3,8,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,4),(4,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,5),(1,2,4)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,6),(2,6,9),(2,7,10),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(2,7,10),(5,17,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,11),(2,7,10),(5,17,26)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,11),(1,3,6),(1,3,5),(5,17,26)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,3,6),(3,10,16),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((5,17,26),(3,10,16),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(5,17,26),(3,10,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(1,3,6),(3,10,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(2,6,9),(2,7,10)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,6),(2,7,10),(1,4,5),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,10),(3,11,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,11),(2,7,10),(3,11,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,4,5),(3,11,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,11),(1,4,6),(3,11,16)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,6),(1,4,6),(2,7,11)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,4),(1,4,5),(4,11,13),(2,9,10)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,8),(6,21,26),(1,4,5),(2,9,10)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((4,15,18),(4,14,17),(1,4,5),(6,21,26)); lvl=4; h,r-ind=1,2
        [3,3]((4,14,17),(6,21,26),(5,18,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(6,21,26),(5,18,22)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,18),(4,14,17),(5,18,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(4,15,18),(5,18,22)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,8),(4,15,18),(4,14,17)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((2,8,9),(2,7,8),(4,15,18)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((2,8,9),(4,15,18),(2,9,10),(1,4,5)); lvl=4; h,r-ind=1,2
        [3,3]((3,12,14),(4,15,18),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,10),(3,12,14),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,9),(2,9,10),(3,12,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,9),(3,12,14),(4,15,18)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,4),(2,6,7),(2,7,8),(6,21,26)); lvl=3; h,r-ind=1,1
      [4,3]((8,27,33),(3,10,12),(2,7,8),(4,14,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,12),(2,7,8),(7,24,29)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,17),(2,7,8),(7,24,29)); lvl=5; h,r-ind=1,1
        [3,3]((8,27,33),(3,10,12),(7,24,29)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,17),(8,27,33),(7,24,29)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,4),(6,21,26),(8,27,33),(4,14,17)); lvl=4; h,r-ind=1,1
        [3,3]((6,21,26),(5,17,21),(4,14,17)); lvl=5; h,r-ind=1,1
        [3,3]((8,27,33),(5,17,21),(4,14,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(8,27,33),(5,17,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(6,21,26),(5,17,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(8,27,33),(3,10,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,7),(3,10,12),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,7),(3,10,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,7),(4,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(6,21,26),(1,4,5)); lvl=3; h,r-ind=1,1
  [4,3]((2,6,9),(1,3,4),(2,7,10),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,14),(1,4,5),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(3,10,14),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,10),(3,10,14),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(2,7,10),(3,10,14)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,5),(2,9,11),(2,9,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,6),(1,4,5),(2,9,11)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(1,5,6),(2,9,10),(2,9,11)); lvl=1; h,r-ind=1,1
  [4,3]((1,5,5),(2,9,10),(2,9,11),(4,19,22)); lvl=2; h,r-ind=1,2; alert-r-inc
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      [3,3]((2,9,10),(3,14,16),(2,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,22),(3,14,16),(2,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(2,9,10),(3,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,22),(1,5,5),(3,14,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,11),(4,19,22)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,5,6),(1,5,5),(4,19,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,10,11),(1,5,6),(4,19,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(2,10,11),(4,19,22)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,10,11),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(0,1,0),(2,10,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,6),(1,4,6),(3,12,26)); lvl=1; h,r-ind=8,8; optimized-h
  [3,3]((1,0,0),(3,6,13),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,2,3),(2,9,10),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,5),(1,1,1),(2,2,3),(4,11,13)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,2),(1,1,1),(2,2,3),(2,4,5)); lvl=3; h,r-ind=1,1
        [4,3]((1,1,1),(4,6,7),(2,2,3),(2,3,4)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,5),(2,3,4),(4,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(3,4,5),(4,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=5; h,r-ind=1,1
        [4,3]((2,4,5),(1,2,2),(4,6,7),(2,3,4)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,6),(1,2,2),(4,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,6),(2,3,4),(4,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,5),(3,5,6),(1,2,2)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(1,1,1),(4,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,13),(2,5,6),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(1,2,2),(3,8,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,5),(2,5,5),(2,9,10),(4,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,5),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(4,11,13),(3,8,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(2,7,7),(2,6,7),(2,7,8)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,8),(3,10,11),(2,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(3,10,11),(2,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(2,7,8),(3,10,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,5),(2,7,7),(2,9,10),(2,7,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,4),(2,7,7),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(1,4,4),(2,7,8)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,5),(2,9,10),(2,8,9),(1,4,4)); lvl=4; h,r-ind=1,1
          [3,3]((2,9,10),(2,8,9),(3,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(2,8,9),(3,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(2,9,10),(3,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(1,5,5),(3,13,14)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,1,1)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,5,5),(0,1,0),(2,5,5)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
[4,3]((2,9,20),(5,21,46),(10,41,90),(9,37,81)); lvl=1; h,r-ind=1,1
  [3,3]((9,37,81),(5,21,46),(20,83,182)); lvl=2; h,r-ind=1,1
  [4,3]((6,25,55),(2,9,20),(5,21,46),(20,83,182)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((5,21,46),(2,9,20),(11,46,101)); lvl=3; h,r-ind=1,1
    [3,3]((6,25,55),(2,9,20),(11,46,101)); lvl=3; h,r-ind=1,1
    [3,3]((20,83,182),(5,21,46),(11,46,101)); lvl=3; h,r-ind=1,1
    [3,3]((6,25,55),(20,83,182),(11,46,101)); lvl=3; h,r-ind=1,1
  [4,3]((10,41,90),(6,25,55),(9,37,81),(20,83,182)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((6,25,55),(20,83,182),(15,62,136)); lvl=3; h,r-ind=1,1
    [3,3]((9,37,81),(20,83,182),(15,62,136)); lvl=3; h,r-ind=1,1
    [3,3]((10,41,90),(6,25,55),(15,62,136)); lvl=3; h,r-ind=1,1
    [3,3]((9,37,81),(10,41,90),(15,62,136)); lvl=3; h,r-ind=1,1
[4,3]((2,9,20),(1,0,0),(10,41,90),(3,6,13)); lvl=1; h,r-ind=1,1
  [4,3]((7,25,55),(2,5,11),(3,6,13),(13,47,103)); lvl=2; h,r-ind=1,1
    [4,3]((3,10,22),(5,16,35),(2,5,11),(3,6,13)); lvl=3; h,r-ind=1,1
      [4,3]((3,10,22),(9,26,57),(5,16,35),(4,11,24)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,21,46),(4,11,24),(9,26,57)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,22),(7,21,46),(9,26,57)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,35),(7,21,46),(4,11,24)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,22),(5,16,35),(7,21,46)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,11),(9,26,57),(3,6,13),(4,11,24)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((6,16,35),(9,26,57),(4,11,24)); lvl=5; h,r-ind=1,1
        [3,3]((3,6,13),(6,16,35),(4,11,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,11),(3,6,13),(6,16,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,11),(6,16,35),(9,26,57)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,11),(3,10,22),(9,26,57)); lvl=4; h,r-ind=1,1
    [3,3]((3,10,22),(6,21,46),(5,16,35)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,22),(6,21,46),(10,36,79)); lvl=3; h,r-ind=1,1
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      [3,3]((6,21,46),(13,47,103),(10,36,79)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,22),(7,25,55),(10,36,79)); lvl=3; h,r-ind=1,1
    [4,3]((6,25,55),(10,41,90),(7,25,55),(13,47,103)); lvl=2; h,r-ind=1,1
      [4,3]((4,15,33),(9,35,77),(7,26,57),(8,31,68)); lvl=3; h,r-ind=1,1
        [3,3]((8,31,68),(9,35,77),(12,46,101)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,33),(9,35,77),(12,46,101)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,33),(7,26,57),(12,46,101)); lvl=4; h,r-ind=1,1
        [3,3]((7,26,57),(8,31,68),(12,46,101)); lvl=4; h,r-ind=1,1
      [4,3]((6,25,55),(9,35,77),(10,41,90),(8,31,68)); lvl=3; h,r-ind=1,1
        [3,3]((5,20,44),(9,35,77),(8,31,68)); lvl=4; h,r-ind=1,1
        [3,3]((5,20,44),(9,36,79),(8,31,68)); lvl=4; h,r-ind=1,1
        [4,3]((6,25,55),(5,20,44),(10,41,90),(9,36,79)); lvl=4; h,r-ind=1,1
          [3,3]((15,61,134),(9,36,79),(5,20,44)); lvl=5; h,r-ind=1,1
          [3,3]((6,25,55),(15,61,134),(5,20,44)); lvl=5; h,r-ind=1,1
          [3,3]((10,41,90),(15,61,134),(9,36,79)); lvl=5; h,r-ind=1,1
          [3,3]((6,25,55),(10,41,90),(15,61,134)); lvl=5; h,r-ind=1,1
      [3,3]((4,15,33),(10,36,79),(7,26,57)); lvl=3; h,r-ind=1,1
      [3,3]((10,36,79),(13,47,103),(7,26,57)); lvl=3; h,r-ind=1,1
      [3,3]((7,25,55),(4,15,33),(10,36,79)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,20),(6,25,55),(7,25,55)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,9,20),(7,25,55),(2,5,11)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(2,5,11),(3,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,20),(1,0,0),(2,5,11)); lvl=2; h,r-ind=1,1
  [7,3]((1,5,10),(5,21,46),(1,5,6),(1,4,6),(2,9,11),(9,37,81),(3,12,26)); lvl=1; h,r-ind=1,1
    [4,3]((5,21,46),(8,33,72),(3,13,28),(5,21,45)); lvl=2; h,r-ind=1,1
      [4,3]((4,17,37),(3,13,28),(5,21,45),(13,54,117)); lvl=3; h,r-ind=1,1
        [4,3]((6,25,54),(3,13,28),(13,55,119),(5,21,45)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((9,38,82),(13,55,119),(3,13,28)); lvl=5; h,r-ind=1,1
          [3,3]((5,21,45),(9,38,82),(3,13,28)); lvl=5; h,r-ind=1,1
          [3,3]((6,25,54),(5,21,45),(9,38,82)); lvl=5; h,r-ind=1,1
          [3,3]((6,25,54),(9,38,82),(13,55,119)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,37),(6,25,54),(13,55,119)); lvl=4; h,r-ind=1,1
        [3,3]((4,17,37),(6,25,54),(13,54,117)); lvl=4; h,r-ind=1,1
        [3,3]((4,17,37),(3,13,28),(13,55,119)); lvl=4; h,r-ind=1,1
      [4,3]((5,21,46),(4,17,37),(8,33,72),(13,54,117)); lvl=3; h,r-ind=1,1
        [3,3]((4,17,37),(7,29,63),(13,54,117)); lvl=4; h,r-ind=1,1
        [3,3]((4,17,37),(7,29,63),(16,67,146)); lvl=4; h,r-ind=1,1
        [3,3]((5,21,46),(4,17,37),(16,67,146)); lvl=4; h,r-ind=1,1
        [4,3]((5,21,46),(8,33,72),(7,29,63),(16,67,146)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((12,50,109),(8,33,72),(7,29,63)); lvl=5; h,r-ind=1,1
          [3,3]((16,67,146),(12,50,109),(7,29,63)); lvl=5; h,r-ind=1,1
          [3,3]((5,21,46),(16,67,146),(12,50,109)); lvl=5; h,r-ind=1,1
          [3,3]((5,21,46),(12,50,109),(8,33,72)); lvl=5; h,r-ind=1,1
  [7,3]((1,5,10),(1,5,8),(2,9,15),(3,12,25),(2,8,15),(3,13,28),(5,21,45)); lvl=2; h,r-ind=1,1
    [3,3]((4,18,31),(2,9,15),(1,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,9),(4,18,31),(1,4,8),(1,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(4,18,31),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(4,18,31),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(1,5,9),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(1,4,8),(2,9,16)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,10),(1,5,9),(2,9,19),(1,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(2,9,18),(1,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(2,9,18),(1,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,19),(1,5,10),(2,9,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,19),(1,4,8),(2,9,18)); lvl=4; h,r-ind=1,1
    [4,3]((2,9,19),(9,38,81),(3,13,28),(1,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,17,36),(3,13,28),(9,38,81)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(4,17,36),(9,38,81)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,19),(4,17,36),(3,13,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(2,9,19),(4,17,36)); lvl=4; h,r-ind=1,1
    [4,3]((9,38,81),(5,21,45),(3,12,25),(1,4,8)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,21,45),(3,12,25),(6,25,53)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(3,12,25),(6,25,53)); lvl=4; h,r-ind=1,1
      [3,3]((9,38,81),(1,4,8),(6,25,53)); lvl=4; h,r-ind=1,1
      [3,3]((9,38,81),(5,21,45),(6,25,53)); lvl=4; h,r-ind=1,1
    [3,3]((9,38,81),(3,13,28),(5,21,45)); lvl=3; h,r-ind=1,1
    [4,3]((4,18,31),(2,8,15),(1,4,8),(2,9,15)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,13,23),(1,4,8),(2,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,23),(2,9,15),(2,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,31),(3,13,23),(2,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,31),(3,13,23),(1,4,8)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,6),(2,9,12),(1,5,8),(2,9,15)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,8),(1,5,7),(2,9,15),(4,18,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(4,18,27),(2,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(4,19,29),(2,9,14)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,8),(4,19,29),(2,9,15),(2,9,14)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,22),(2,9,15),(2,9,14)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,29),(3,14,22),(2,9,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(4,19,29),(3,14,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(3,14,22),(2,9,15)); lvl=5; h,r-ind=1,1
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        [3,3]((1,5,8),(1,5,7),(4,19,29)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,6),(1,5,7),(2,9,12),(4,18,27)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,7),(2,9,13),(4,18,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,19,26),(1,5,7),(2,9,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,6),(4,19,26),(2,9,12),(2,9,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,12),(3,14,19),(2,9,13)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,26),(3,14,19),(2,9,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(2,9,12),(3,14,19)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,26),(1,5,6),(3,14,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(4,19,26),(1,5,7)); lvl=4; h,r-ind=1,1
    [4,3]((2,9,12),(2,9,15),(2,8,15),(1,4,6)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((2,9,15),(1,4,7),(2,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,18,27),(2,9,15),(1,4,7)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((2,9,12),(4,18,27),(1,4,6),(1,4,7)); lvl=3; h,r-ind=1,1
        [3,3]((4,17,26),(1,4,7),(1,4,6)); lvl=4; h,r-ind=1,1
        [4,3]((2,9,12),(2,9,13),(4,17,26),(1,4,6)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,13),(4,17,26),(3,13,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(4,17,26),(3,13,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,12),(1,4,6),(3,13,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,12),(2,9,13),(3,13,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,13),(4,17,26),(1,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,27),(2,9,13),(1,4,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,12),(2,9,11),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,12),(2,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((3,12,26),(3,12,25),(8,33,72),(5,21,45)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((2,8,17),(3,12,25),(5,21,45)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,17),(13,54,117),(5,21,45)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((3,12,26),(2,8,17),(8,33,72),(13,54,117)); lvl=3; h,r-ind=1,1
        [3,3]((2,8,17),(7,29,63),(12,49,106)); lvl=4; h,r-ind=1,1
        [4,3]((3,12,26),(8,33,72),(7,29,63),(12,49,106)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((10,41,89),(8,33,72),(7,29,63)); lvl=5; h,r-ind=1,1
          [3,3]((12,49,106),(10,41,89),(7,29,63)); lvl=5; h,r-ind=1,1
          [3,3]((3,12,26),(12,49,106),(10,41,89)); lvl=5; h,r-ind=1,1
          [3,3]((3,12,26),(10,41,89),(8,33,72)); lvl=5; h,r-ind=1,1
        [3,3]((3,12,26),(2,8,17),(12,49,106)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,17),(13,54,117),(7,29,63)); lvl=4; h,r-ind=1,1
    [3,3]((9,37,81),(3,12,26),(8,33,72)); lvl=2; h,r-ind=1,1
    [3,3]((9,37,81),(5,21,46),(8,33,72)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,10),(1,5,6)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((2,9,20),(1,5,10),(5,21,46)); lvl=1; h,r-ind=4,4; optimized-h
```

20.21 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,11,20)); lvl=0; h,r-ind=20,200
  [3,3]((1,0,0),(1,3,5),(1,5,9)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,5,5),(1,3,5),(1,5,9)); lvl=1; h,r-ind=8,4; optimized-h
  [4,3]((0,1,0),(1,6,10),(1,5,5),(1,5,9)); lvl=1; h,r-ind=1,1
    [4,3]((1,6,9),(1,5,7),(2,12,15),(1,5,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,8),(2,12,15),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(1,6,8),(1,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,9),(1,5,9),(1,5,8),(1,6,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,9),(1,5,8),(2,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(1,5,8),(2,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,9),(1,5,9),(2,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(1,6,9),(2,11,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(1,6,9),(1,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,10),(1,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,9),(2,12,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((0,1,0),(1,5,5),(1,5,7),(2,12,15)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,7),(1,5,6),(2,12,13),(1,6,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,6),(2,12,13),(2,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(2,12,13),(2,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(1,6,7),(2,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(1,5,6),(2,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,12,13),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,15),(1,5,7),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,12,15),(1,6,7)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,5,5),(1,5,6),(2,12,13)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,6),(1,6,6),(1,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,6,6),(1,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,13),(1,5,6),(1,6,6)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,12,13),(1,6,6)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,20),(1,6,10),(1,5,9)); lvl=1; h,r-ind=1,1
  [3,3]((2,11,20),(1,0,0),(1,5,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,5),(1,0,0),(1,3,5)); lvl=1; h,r-ind=10,10; optimized-h
  [3,3]((0,1,0),(1,5,5),(1,0,0)); lvl=1; h,r-ind=5,5; optimized-h
```

20.22 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,13,20)); lvl=0; h,r-ind=20,200
  [3,3]((1,2,3),(2,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,7,8),(1,4,4),(2,3,4),(1,0,0)); lvl=1; h,r-ind=4,1
    [4,3]((2,5,6),(2,3,4),(1,2,2),(1,0,0)); lvl=2; h,r-ind=2,1
      [4,3]((2,4,5),(1,1,1),(2,3,4),(1,0,0)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,5),(1,0,0),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(2,4,5),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,5),(1,0,0)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,6),(2,4,5),(1,2,2),(1,1,1)); lvl=3; h,r-ind=1,1
        [3,3]((3,6,7),(1,1,1),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(3,6,7),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,6,7),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(1,2,2),(3,6,7)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,8),(2,5,6),(1,4,4),(1,2,2)); lvl=2; h,r-ind=2,1
      [4,3]((2,6,7),(1,3,3),(2,5,6),(1,2,2)); lvl=3; h,r-ind=1,1
        [3,3]((3,8,9),(1,2,2),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(3,8,9),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(3,8,9),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(2,5,6),(3,8,9)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,7),(2,7,8),(1,4,4),(1,3,3)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,4),(2,7,8),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(2,7,8),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,4,4),(3,10,11)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(1,0,0)); lvl=1; h,r-ind=4,4; optimized-h
  [5,3]((1,5,6),(1,5,5),(1,4,5),(2,7,8),(1,4,4)); lvl=1; h,r-ind=1,1
    [4,3]((1,4,5),(2,8,9),(3,13,15),(4,17,19)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,9),(4,17,19),(5,21,24)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,15),(4,17,19),(5,21,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,13,15),(5,21,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,8,9),(5,21,24)); lvl=3; h,r-ind=1,1
    [5,3]((1,5,6),(3,13,14),(1,5,5),(3,13,15),(4,17,19)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,10),(1,5,5),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,17,19),(2,9,10),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,15),(4,17,19),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(3,13,15),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,9,10),(1,5,5)); lvl=3; h,r-ind=1,1
    [4,3]((3,13,14),(1,4,4),(2,8,9),(4,17,19)); lvl=2; h,r-ind=1,1
      [3,3]((5,21,23),(2,8,9),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,14),(5,21,23),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,17,19),(5,21,23),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,14),(4,17,19),(5,21,23)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,14),(1,5,5),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,5),(3,13,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,8),(2,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,4),(2,7,8),(2,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,5),(1,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((2,13,20),(1,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((1,4,6),(1,4,5),(2,7,8),(1,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,6),(2,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,3),(1,3,4),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(1,2,3),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,8),(1,3,4),(2,5,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,4,5),(2,7,8),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(1,4,5),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,13,20),(1,4,6),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,5,6),(1,6,9),(1,4,6),(1,4,5)); lvl=1; h,r-ind=1,2
    [3,3]((1,6,9),(1,5,7),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(1,5,7),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,5),(1,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(1,6,9),(1,5,7)); lvl=2; h,r-ind=1,1
  [5,3]((0,1,0),(1,7,10),(1,5,6),(1,5,5),(1,6,9)); lvl=1; h,r-ind=1,1
    [5,3]((1,7,8),(2,14,15),(2,13,17),(1,6,8),(1,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,7),(3,20,23),(2,14,15)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,7,8),(3,20,23),(2,14,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,7),(4,26,31),(3,19,23),(3,20,23)); lvl=3; h,r-ind=1,1
        [3,3]((3,19,23),(9,58,69),(4,26,31)); lvl=4; h,r-ind=1,1
        [4,3]((2,13,15),(3,20,23),(9,58,69),(4,26,31)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,20,23),(6,39,46),(4,26,31)); lvl=5; h,r-ind=1,1
          [3,3]((9,58,69),(6,39,46),(4,26,31)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,15),(3,20,23),(6,39,46)); lvl=5; h,r-ind=1,1
          [3,3]((9,58,69),(2,13,15),(6,39,46)); lvl=5; h,r-ind=1,1
        [4,3]((1,6,7),(2,13,15),(3,19,23),(9,58,69)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,32,38),(9,58,69),(2,13,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(5,32,38),(2,13,15)); lvl=5; h,r-ind=1,1
          [3,3]((5,32,38),(3,19,23),(9,58,69)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(5,32,38),(3,19,23)); lvl=5; h,r-ind=1,1
```

```
      [4,3]((1,7,8),(4,26,31),(2,13,16),(3,20,23)); lvl=3; h,r-ind=1,1
        [3,3]((2,13,16),(4,26,31),(5,33,39)); lvl=4; h,r-ind=1,1
        [3,3]((3,20,23),(4,26,31),(5,33,39)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(2,13,16),(5,33,39)); lvl=4; h,r-ind=1,1
        [3,3]((3,20,23),(1,7,8),(5,33,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(2,13,17),(2,13,16)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,8),(4,26,31),(2,13,16),(3,19,23)); lvl=3; h,r-ind=1,1
        [3,3]((2,13,16),(4,26,31),(5,32,39)); lvl=4; h,r-ind=1,1
        [3,3]((3,19,23),(4,26,31),(5,32,39)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(2,13,16),(5,32,39)); lvl=4; h,r-ind=1,1
        [3,3]((3,19,23),(1,6,8),(5,32,39)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,17),(1,6,8),(2,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(1,6,7),(3,19,23)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,6),(3,16,18),(1,6,8),(1,6,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,6,8),(2,11,13),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,18),(2,11,13),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(3,16,18),(2,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,6,8),(2,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,5),(1,5,6),(3,16,18)); lvl=2; h,r-ind=1,1
    [5,3]((0,1,0),(1,5,5),(3,16,18),(2,14,15),(1,6,7)); lvl=2; h,r-ind=1,1
      [4,3]((3,17,18),(2,13,13),(1,6,6),(2,12,13)); lvl=3; h,r-ind=1,1
        [3,3]((3,18,19),(1,6,6),(2,13,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,13),(3,18,19),(2,13,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,18),(3,18,19),(1,6,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,13),(3,17,18),(3,18,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(3,17,18),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(3,17,18),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,7),(1,7,7),(2,13,13),(2,12,13)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,7),(2,13,13),(3,19,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,13),(2,13,13),(3,19,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(1,7,7),(3,19,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,13),(1,6,7),(3,19,20)); lvl=4; h,r-ind=1,1
      [4,3]((3,17,18),(2,11,12),(1,6,7),(2,12,13)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,12),(1,6,7),(4,23,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,13),(1,6,7),(4,23,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,18),(2,11,12),(4,23,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,13),(3,17,18),(4,23,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,12),(3,16,18),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(2,11,12),(3,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,14,15),(1,6,7),(1,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,14,15),(1,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(2,13,13)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,13,13),(1,6,6)); lvl=3; h,r-ind=1,1
    [5,3]((0,1,0),(1,7,10),(2,13,18),(1,7,8),(2,13,17)); lvl=2; h,r-ind=1,1
      [3,3]((1,7,9),(2,13,18),(2,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(1,7,8),(2,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,9),(1,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(1,7,10),(2,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,9),(1,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,9),(1,7,10),(2,13,18)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,7,8),(2,14,15)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,9),(2,13,18),(2,13,17),(1,6,8)); lvl=2; h,r-ind=1,1
      [3,3]((2,13,18),(2,13,17),(3,19,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(2,13,17),(3,19,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,9),(2,13,18),(3,19,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(1,6,9),(3,19,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(1,6,9),(1,6,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,13,20),(1,7,10),(1,6,9)); lvl=1; h,r-ind=1,1
  [3,3]((2,13,20),(1,6,9),(1,4,6)); lvl=1; h,r-ind=1,1
```

20.23 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,15,20)); lvl=0; h,r-ind=20,40
  [5,3]((2,9,12),(1,6,8),(1,3,3),(1,5,5),(1,7,9)); lvl=1; h,r-ind=1,1
    [4,3]((1,4,4),(1,5,6),(1,6,7),(1,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,6),(1,6,7),(2,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,6,7),(2,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,5,6),(2,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,4,4),(2,10,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,9),(1,5,6),(2,11,14),(1,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,12,15),(1,5,6),(2,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(2,12,15),(2,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(1,7,9),(2,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(2,12,15),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(1,7,9),(2,11,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(1,5,6),(2,11,14)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((1,6,8),(2,9,12),(1,4,5),(2,11,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,10,13),(1,4,5),(2,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(2,10,13),(2,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(2,10,13),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,14),(2,10,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,4),(1,3,3),(1,4,5),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(1,4,5),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,5),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,4),(2,8,9)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,8,10),(1,5,5),(1,7,9)); lvl=1; h,r-ind=1,1
    [5,3]((2,15,15),(1,7,7),(2,15,18),(1,6,7),(1,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,7,8),(1,7,9),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(1,7,7),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,15),(1,7,8),(1,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(1,7,9),(2,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(4,30,33),(2,15,18)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,15,15),(1,7,8),(4,30,33)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,8,10),(2,15,18),(1,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(2,15,15),(1,8,10),(2,15,18)); lvl=2; h,r-ind=1,2; alert-r-inc
      [4,3]((2,16,17),(1,8,9),(4,30,33),(2,15,18)); lvl=3; h,r-ind=1,1
        [4,3]((1,8,9),(7,54,60),(2,15,17),(2,15,18)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((3,23,26),(7,54,60),(2,15,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,18),(3,23,26),(2,15,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(2,15,18),(3,23,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(3,23,26),(7,54,60)); lvl=5; h,r-ind=1,1
        [4,3]((2,16,17),(4,31,34),(1,8,9),(7,54,60)); lvl=4; h,r-ind=1,1
          [3,3]((4,31,34),(7,54,60),(5,39,43)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(7,54,60),(5,39,43)); lvl=5; h,r-ind=1,1
          [3,3]((2,16,17),(4,31,34),(5,39,43)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(2,16,17),(5,39,43)); lvl=5; h,r-ind=1,1
        [4,3]((3,23,25),(4,31,34),(7,54,60),(2,15,17)); lvl=4; h,r-ind=1,1
          [3,3]((4,31,34),(6,46,51),(7,54,60)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,17),(6,46,51),(7,54,60)); lvl=5; h,r-ind=1,1
          [3,3]((3,23,25),(4,31,34),(6,46,51)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,17),(3,23,25),(6,46,51)); lvl=5; h,r-ind=1,1
        [3,3]((3,23,25),(4,30,33),(2,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,17),(3,23,25),(4,31,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,10),(1,8,9),(2,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,10),(1,8,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,8),(2,16,17),(2,15,15),(4,30,33)); lvl=3; h,r-ind=1,1
        [3,3]((2,15,16),(3,23,25),(4,30,33)); lvl=4; h,r-ind=1,1
        [4,3]((7,54,57),(4,31,33),(2,15,16),(3,23,25)); lvl=4; h,r-ind=1,1
          [3,3]((6,46,49),(4,31,33),(3,23,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,16),(6,46,49),(3,23,25)); lvl=5; h,r-ind=1,1
          [3,3]((7,54,57),(6,46,49),(4,31,33)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,16),(7,54,57),(6,46,49)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,17),(4,31,33),(3,23,25)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,8),(7,54,57),(2,15,15),(2,15,16)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,15,16),(2,15,15),(3,23,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,8),(2,15,15),(3,23,24)); lvl=5; h,r-ind=1,1
          [3,3]((7,54,57),(2,15,16),(3,23,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,8),(7,54,57),(3,23,24)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,8),(2,16,17),(7,54,57),(4,31,33)); lvl=4; h,r-ind=1,1
          [3,3]((2,16,17),(4,31,33),(5,39,41)); lvl=5; h,r-ind=1,1
          [3,3]((7,54,57),(4,31,33),(5,39,41)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,8),(7,54,57),(5,39,41)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,8),(2,16,17),(5,39,41)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,8),(2,15,15)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,8),(2,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,16,17),(1,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,5),(1,7,7),(1,6,7)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,5,5),(1,7,7)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,15,15),(1,7,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,15,20),(1,8,10),(1,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((2,15,20),(1,6,8),(1,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,9,12),(1,3,3)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,3,3),(1,5,5)); lvl=1; h,r-ind=2,2; optimized-h
```

20.24 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,17,20)); lvl=0; h,r-ind=20,200
  [5,3]((1,5,5),(1,7,8),(1,6,7),(1,2,2),(2,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((2,8,9),(2,7,8),(1,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,9),(5,29,33),(4,19,21),(1,6,7)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,6,7),(7,37,42),(5,29,33),(3,16,18)); lvl=3; h,r-ind=1,3
```

```
      [3,3]((4,22,25),(3,16,18),(7,37,42)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(4,22,25),(7,37,42)); lvl=4; h,r-ind=1,1
      [3,3]((5,29,33),(4,22,25),(3,16,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(5,29,33),(4,22,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,10),(7,37,42),(3,16,18)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((2,9,10),(4,19,21),(3,16,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,7),(2,8,9),(2,9,10),(7,37,42)); lvl=3; h,r-ind=1,3
      [3,3]((3,15,17),(2,9,10),(2,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(3,15,17),(2,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((7,37,42),(3,15,17),(2,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(7,37,42),(3,15,17)); lvl=4; h,r-ind=1,1
  [3,3]((5,29,33),(1,7,8),(1,6,7)); lvl=2; h,r-ind=1,1
  [5,3]((1,5,5),(2,7,7),(5,29,33),(4,19,21),(1,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,4),(3,13,14),(2,10,11),(2,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,11),(3,13,14),(4,17,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,7),(3,13,14),(4,17,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(2,10,11),(4,17,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,7),(1,4,4),(4,17,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,4),(3,17,19),(2,10,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,4),(1,5,5),(1,7,8),(3,17,19)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,5),(2,11,12),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,19),(2,11,12),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(1,5,5),(2,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,19),(1,4,4),(2,11,12)); lvl=4; h,r-ind=1,1
    [4,3]((3,13,14),(4,19,21),(3,16,18),(2,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,29,32),(3,16,18),(4,19,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,14),(6,29,32),(4,19,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,11),(3,13,14),(6,29,32)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,11),(6,29,32),(3,16,18)); lvl=4; h,r-ind=1,1
    [3,3]((3,17,19),(3,16,18),(2,10,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,8),(3,17,19),(5,29,33),(3,16,18)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,23,26),(3,17,19),(3,16,18)); lvl=4; h,r-ind=1,1
      [3,3]((5,29,33),(4,23,26),(3,16,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(5,29,33),(4,23,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(4,23,26),(3,17,19)); lvl=4; h,r-ind=1,1
  [3,3]((2,8,9),(1,2,2),(2,7,8)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,7),(2,8,9),(4,19,21),(1,2,2)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((1,3,3),(1,2,2),(2,8,9),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,8,9),(3,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,10),(2,8,9),(3,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(3,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,10),(1,3,3),(3,11,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,3),(3,13,14),(2,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,14),(4,19,21),(2,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,7),(1,3,3),(3,13,14)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(1,2,2),(2,7,8)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((1,0,0),(1,6,7),(2,7,8)); lvl=1; h,r-ind=1,1
[3,3]((2,17,20),(1,0,0),(1,6,7)); lvl=1; h,r-ind=1,1
[3,3]((0,1,0),(1,5,5),(1,2,2)); lvl=1; h,r-ind=3,3; optimized-h
[4,3]((0,1,0),(1,5,5),(1,9,10),(1,7,8)); lvl=1; h,r-ind=1,1
  [3,3]((1,6,6),(1,5,5),(1,7,8)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,6),(2,15,15),(1,8,9),(1,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,7,7),(1,8,9),(2,15,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,7),(3,22,24),(1,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,22,24),(1,7,8),(1,8,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,6),(1,7,7),(3,22,24),(1,7,8)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,7,7),(3,22,24),(2,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(3,22,24),(2,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(1,7,8),(2,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(1,7,7),(2,14,15)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,6),(2,15,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((0,1,0),(2,15,15),(1,9,10),(1,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,8,9),(1,8,8),(2,15,15)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,8,8),(2,15,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,9),(2,17,17),(2,17,18),(1,8,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,17,18),(2,17,17),(3,25,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,8),(2,17,17),(3,25,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,9),(2,17,18),(3,25,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,8),(1,8,9),(3,25,26)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(2,17,17),(1,8,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,9,10),(0,1,0),(2,17,17),(2,17,18)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((0,1,0),(2,17,17),(1,9,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,18),(2,17,17),(1,9,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,10),(2,17,18),(1,9,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,10),(0,1,0),(1,9,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,10),(1,8,9),(2,17,18)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,6),(1,5,5)); lvl=2; h,r-ind=1,1
[3,3]((2,17,20),(1,9,10),(1,7,8)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((2,17,20),(1,7,8),(1,6,7)); lvl=1; h,r-ind=1,1
```

20.25 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,19,20)); lvl=0; h,r-ind=20,200
  [3,3]((0,1,0),(1,5,5),(1,1,1)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((2,19,20),(1,5,5),(1,1,1)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,0,0),(2,19,20),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,10,10),(1,5,5)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((2,19,20),(1,10,10),(1,5,5)); lvl=1; h,r-ind=5,5; optimized-h
```

20.26 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,3,20)); lvl=0; h,r-ind=20,400
  [3,3]((1,0,0),(1,1,6),(3,3,19)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,6),(3,3,19)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,13),(3,3,19)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,13),(3,3,19)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,20),(0,1,0),(2,2,13)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,20),(1,0,0),(2,2,13)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,7),(1,1,6)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((0,1,0),(2,2,7),(1,1,6)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,2,7)); lvl=1; h,r-ind=7,49; optimized-h
```

20.27 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,4,20)); lvl=0; h,r-ind=20,100
  [5,3]((2,3,11),(2,3,7),(5,7,28),(3,4,16),(3,4,10)); lvl=1; h,r-ind=1,1
    [5,3]((3,4,10),(3,4,13),(2,3,7),(2,3,9),(10,14,45)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,9),(2,3,8),(5,7,22),(5,7,20)); lvl=3; h,r-ind=1,1
        [4,3]((9,13,38),(2,3,8),(5,7,21),(5,7,20)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,7,21),(5,7,20),(7,10,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,8),(5,7,20),(7,10,29)); lvl=5; h,r-ind=1,1
          [3,3]((9,13,38),(2,3,8),(7,10,29)); lvl=5; h,r-ind=1,1
          [3,3]((9,13,38),(5,7,21),(7,10,29)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,9),(9,13,38),(5,7,22),(5,7,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,7,22),(7,10,30),(5,7,21)); lvl=5; h,r-ind=1,1
          [3,3]((9,13,38),(7,10,30),(5,7,21)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,9),(9,13,38),(7,10,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,9),(5,7,22),(7,10,30)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,9),(9,13,38),(2,3,8)); lvl=4; h,r-ind=1,1
      [4,3]((6,8,23),(3,4,13),(5,7,22),(5,7,20)); lvl=3; h,r-ind=1,1
        [4,3]((3,4,13),(3,4,12),(5,7,22),(5,7,21)); lvl=4; h,r-ind=1,1
          [3,3]((5,7,21),(5,7,22),(8,11,34)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,13),(5,7,22),(8,11,34)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,12),(3,4,13),(8,11,34)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,12),(5,7,21),(8,11,34)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,20),(3,4,12),(5,7,21)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,23),(5,7,20),(3,4,12)); lvl=4; h,r-ind=1,1
      [5,3]((3,4,10),(6,8,23),(2,3,7),(2,3,8),(5,7,20)); lvl=3; h,r-ind=1,1
        [3,3]((10,14,39),(2,3,8),(5,7,20)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,11),(6,8,23),(10,14,39),(5,7,20)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((10,14,39),(8,11,31),(5,7,20)); lvl=5; h,r-ind=1,1
          [3,3]((6,8,23),(8,11,31),(5,7,20)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,11),(10,14,39),(8,11,31)); lvl=5; h,r-ind=1,1
          [3,3]((6,8,23),(3,4,11),(8,11,31)); lvl=5; h,r-ind=1,1
        [4,3]((3,4,11),(10,14,39),(7,10,26),(2,3,8)); lvl=4; h,r-ind=1,1
          [3,3]((2,3,8),(10,14,39),(5,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,11),(10,14,39),(5,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,26),(2,3,8),(5,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,11),(7,10,26),(5,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,7),(7,10,26),(2,3,8)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,10),(3,4,11),(2,3,7),(7,10,26)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,7,18),(7,10,26),(3,4,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,10),(5,7,18),(3,4,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,7),(3,4,10),(5,7,18)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,7),(5,7,18),(7,10,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,9),(10,14,45),(5,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(10,14,45),(5,7,22)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,11),(5,7,27),(2,3,9),(10,14,45)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,9),(10,14,45),(5,7,23)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,10),(2,3,9),(10,14,49),(5,7,23)); lvl=3; h,r-ind=1,1
        [4,3]((2,3,9),(9,13,43),(5,7,24),(5,7,23)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((7,10,33),(5,7,24),(9,13,43)); lvl=5; h,r-ind=1,1
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          [3,3]((2,3,9),(7,10,33),(9,13,43)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,23),(7,10,33),(5,7,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,9),(5,7,23),(7,10,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(2,3,9),(9,13,43)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(9,13,43),(5,7,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(10,14,49),(5,7,24)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,10),(2,3,11),(5,7,27),(10,14,49)); lvl=3; h,r-ind=1,1
        [4,3]((10,14,51),(2,3,11),(11,16,57),(5,7,27)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((16,23,84),(2,3,11),(7,10,36),(11,16,57)); lvl=5; h,r-ind=1,3
            [3,3]((9,13,47),(2,3,11),(11,16,57)); lvl=6; h,r-ind=1,1
            [3,3]((7,10,36),(9,13,47),(11,16,57)); lvl=6; h,r-ind=1,1
            [3,3]((16,23,84),(9,13,47),(2,3,11)); lvl=6; h,r-ind=1,1
            [3,3]((7,10,36),(16,23,84),(9,13,47)); lvl=6; h,r-ind=1,1
          [3,3]((5,7,26),(16,23,84),(7,10,36)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [3,3]((10,14,51),(5,7,26),(7,10,36)); lvl=5; h,r-ind=1,1
          [4,3]((5,7,27),(5,7,26),(16,23,84),(2,3,11)); lvl=5; h,r-ind=1,3
            [3,3]((7,10,37),(5,7,26),(16,23,84)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,11),(7,10,37),(16,23,84)); lvl=6; h,r-ind=1,1
            [3,3]((5,7,27),(7,10,37),(5,7,26)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,11),(5,7,27),(7,10,37)); lvl=6; h,r-ind=1,1
        [4,3]((2,3,10),(5,7,25),(10,14,51),(11,16,57)); lvl=4; h,r-ind=1,1
          [4,3]((7,10,36),(5,7,25),(14,20,71),(10,14,51)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((5,7,25),(12,17,61),(14,20,71)); lvl=6; h,r-ind=1,1
            [3,3]((7,10,36),(12,17,61),(14,20,71)); lvl=6; h,r-ind=1,1
            [3,3]((10,14,51),(7,10,36),(12,17,61)); lvl=6; h,r-ind=1,1
            [3,3]((10,14,51),(5,7,25),(12,17,61)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,10),(7,10,36),(14,20,71)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,10),(7,10,36),(11,16,57)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,10),(5,7,25),(14,20,71)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(10,14,49),(5,7,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(2,3,11),(11,16,57)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,11),(5,7,28),(5,7,27)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,16),(5,7,28),(5,7,27)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,16),(5,7,27),(3,4,13),(10,14,45)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((3,4,13),(6,8,29),(5,7,23),(10,14,49)); lvl=3; h,r-ind=3,1
        [3,3]((8,11,39),(5,7,24),(10,14,49)); lvl=4; h,r-ind=1,1
        [3,3]((8,11,39),(3,4,14),(5,7,24)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,13),(3,4,14),(5,7,23),(5,7,24)); lvl=4; h,r-ind=1,1
          [3,3]((8,11,37),(5,7,24),(5,7,23)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,13),(8,11,37),(5,7,23)); lvl=5; h,r-ind=1,1
          [3,3]((8,11,37),(3,4,14),(5,7,24)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,13),(8,11,37),(3,4,14)); lvl=5; h,r-ind=1,1
        [3,3]((8,11,39),(6,8,29),(3,4,14)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,16),(6,8,29),(5,7,27),(10,14,49)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,25),(8,11,39),(10,14,49)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,15),(5,7,25),(8,11,39)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,29),(3,4,15),(8,11,39)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,15),(5,7,25),(10,14,51)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,16),(3,4,15),(5,7,27),(10,14,51)); lvl=4; h,r-ind=1,1
          [3,3]((3,4,15),(5,7,26),(10,14,51)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,15),(11,15,57),(5,7,26)); lvl=5; h,r-ind=1,1
          [4,3]((3,4,16),(11,15,57),(5,7,27),(5,7,26)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((8,11,42),(5,7,27),(5,7,26)); lvl=6; h,r-ind=1,1
            [3,3]((11,15,57),(8,11,42),(5,7,26)); lvl=6; h,r-ind=1,1
            [3,3]((3,4,16),(11,15,57),(8,11,42)); lvl=6; h,r-ind=1,1
            [3,3]((3,4,16),(8,11,42),(5,7,27)); lvl=6; h,r-ind=1,1
          [3,3]((3,4,16),(3,4,15),(11,15,57)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,13),(10,14,45),(5,7,23)); lvl=3; h,r-ind=1,1
[4,3]((1,0,0),(1,1,5),(3,4,16),(3,4,10)); lvl=1; h,r-ind=2,4
  [3,3]((1,1,4),(1,1,5),(3,4,16)); lvl=2; h,r-ind=1,1
  [4,3]((2,2,7),(1,1,4),(3,4,13),(3,4,16)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,4),(6,7,25),(6,8,29),(3,4,16)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,4,15),(4,5,18),(9,11,41)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,1,4),(6,7,25),(4,5,18),(9,11,41)); lvl=4; h,r-ind=1,3
        [3,3]((5,6,22),(4,5,18),(6,7,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(5,6,22),(6,7,25)); lvl=5; h,r-ind=1,1
        [3,3]((9,11,41),(5,6,22),(4,5,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(9,11,41),(5,6,22)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,4),(3,4,16),(3,4,15),(9,11,41)); lvl=4; h,r-ind=1,3
        [3,3]((3,4,15),(4,5,19),(3,4,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(4,5,19),(3,4,16)); lvl=5; h,r-ind=1,1
        [3,3]((9,11,41),(3,4,15),(4,5,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(9,11,41),(4,5,19)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,15),(6,8,29),(4,5,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,4),(2,2,7),(6,7,25)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,25),(3,4,13),(6,8,29)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,7),(6,7,25),(3,4,13)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(2,2,7),(1,1,4)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,3),(2,2,7),(3,4,10),(3,4,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(6,7,22),(6,8,23),(3,4,10)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
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      [3,3]((4,5,15),(3,4,11),(9,11,32)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,1,3),(6,7,22),(4,5,15),(9,11,32)); lvl=4; h,r-ind=1,3
        [3,3]((6,7,22),(5,6,18),(4,5,15)); lvl=5; h,r-ind=1,1
        [3,3]((9,11,32),(5,6,18),(4,5,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(9,11,32),(5,6,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(6,7,22),(5,6,18)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,3),(3,4,10),(3,4,11),(9,11,32)); lvl=4; h,r-ind=1,3
        [3,3]((4,5,14),(3,4,10),(3,4,11)); lvl=5; h,r-ind=1,1
        [3,3]((9,11,32),(4,5,14),(3,4,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(9,11,32),(4,5,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(4,5,14),(3,4,10)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,15),(3,4,11),(6,8,23)); lvl=4; h,r-ind=1,1
    [3,3]((2,2,7),(1,1,3),(6,7,22)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,13),(6,7,22),(6,8,23)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,7),(3,4,13),(6,7,22)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,2,5),(1,1,3),(3,4,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,5),(1,1,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(2,2,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,4),(1,1,5)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(2,3,7),(1,0,0),(3,4,10)); lvl=1; h,r-ind=1,1
  [5,3]((2,2,5),(1,1,2),(5,7,16),(5,7,15),(3,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,15),(3,4,9),(5,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,10),(3,4,9),(5,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,21),(3,4,10),(3,4,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(5,6,14),(7,9,21),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,14),(7,9,21),(8,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(7,9,21),(8,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(5,6,14),(8,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(1,1,2),(8,10,23)); lvl=4; h,r-ind=1,1
    [4,3]((2,2,5),(5,6,14),(7,9,21),(3,4,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,12),(5,6,14),(7,9,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(4,5,12),(7,9,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,5),(3,4,10),(4,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,5),(4,5,12),(5,6,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(5,7,15),(3,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,5),(5,6,14)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,7),(5,7,16),(3,4,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,5),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,7),(5,7,16),(5,7,15),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((7,10,22),(5,7,15),(5,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(7,10,22),(5,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((7,10,22),(2,3,6),(5,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(7,10,22),(2,3,6)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,7),(2,3,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,1,2),(2,3,5),(5,7,15),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(2,3,5),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,15),(3,4,8),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(5,7,15),(3,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,8),(2,3,5)); lvl=3; h,r-ind=1,1
  [4,3]((2,2,3),(1,2,2),(1,1,2),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(1,2,2),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,4),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(1,2,2)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,2,3),(1,2,2)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((1,1,1),(2,2,3),(1,0,0)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,2),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(2,3,6),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,8),(2,3,6),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,8),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(3,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,8),(2,3,6)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=4; h,r-ind=1,1
[4,3]((0,1,0),(1,2,6),(2,3,11),(2,3,7)); lvl=1; h,r-ind=1,1
  [4,3]((2,4,9),(1,2,5),(2,3,11),(2,3,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(4,7,19),(2,3,11),(2,3,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,11),(3,5,15),(2,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,19),(3,5,15),(2,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(4,7,19),(3,5,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,11),(3,5,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,9),(4,7,19),(2,3,10)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
```

```
      [3,3]((2,4,9),(1,2,5),(4,7,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(2,4,9),(4,7,19)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,3,7),(1,2,4),(2,4,9),(2,3,9)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,17),(1,2,4),(2,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(4,7,17),(2,4,9)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,3,8),(2,3,9),(4,7,17)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((2,3,8),(2,3,7),(4,7,17),(1,2,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,12),(2,3,7),(1,2,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,17),(3,5,12),(1,2,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(4,7,17),(3,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(3,5,12),(2,3,7)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,4),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(0,1,0),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,9),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(1,2,5),(2,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,19),(0,1,0),(1,2,6)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,20),(3,5,19),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((1,1,5),(3,4,18),(5,7,30),(5,7,28),(3,4,16)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,17),(5,7,30),(3,4,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,5),(3,4,17),(3,4,18)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,17),(5,7,30),(5,7,29)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,17),(5,7,28),(5,7,29)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,16),(3,4,17),(5,7,28)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,5),(3,4,16),(3,4,17)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,20),(1,1,5),(3,4,18)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((3,4,20),(9,13,56),(3,4,18),(5,7,30)); lvl=1; h,r-ind=2,1
    [4,3]((9,13,56),(12,17,76),(5,7,31),(7,10,43)); lvl=2; h,r-ind=1,1
      [3,3]((7,10,44),(5,7,31),(19,27,118)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,43),(5,7,31),(19,27,118)); lvl=3; h,r-ind=1,1
      [4,3]((7,10,43),(9,13,56),(7,10,44),(19,27,118)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,10,44),(14,20,87),(9,13,56)); lvl=4; h,r-ind=1,1
        [3,3]((7,10,43),(14,20,87),(9,13,56)); lvl=4; h,r-ind=1,1
        [3,3]((19,27,118),(7,10,43),(14,20,87)); lvl=4; h,r-ind=1,1
        [3,3]((19,27,118),(7,10,44),(14,20,87)); lvl=4; h,r-ind=1,1
      [3,3]((7,10,44),(12,17,76),(5,7,31)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,30),(5,7,31),(7,10,43)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,18),(5,7,30),(5,7,31)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,20),(3,4,19),(12,17,76),(5,7,31)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,19),(5,7,31),(13,18,82)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,32),(5,7,31),(13,18,82)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,32),(12,17,76),(5,7,31)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,32),(3,4,20),(3,4,19),(13,18,82)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,20),(8,11,51),(3,4,19)); lvl=4; h,r-ind=1,1
        [3,3]((13,18,82),(8,11,51),(3,4,19)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,32),(13,18,82),(8,11,51)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,32),(3,4,20),(8,11,51)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,18),(3,4,19),(5,7,31)); lvl=2; h,r-ind=1,1
  [6,3]((3,5,19),(9,13,56),(1,2,6),(2,3,11),(5,7,30),(5,7,28)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,12),(9,13,56),(7,10,43),(4,6,25)); lvl=2; h,r-ind=1,1
      [3,3]((11,16,68),(9,13,56),(7,10,43)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,12),(11,16,68),(7,10,43)); lvl=3; h,r-ind=1,1
      [3,3]((11,16,68),(4,6,25),(9,13,56)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,12),(11,16,68),(4,6,25)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,19),(2,3,12),(4,6,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,19),(1,2,6),(2,3,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,30),(2,3,12),(7,10,43)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,30),(5,7,29),(2,3,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,29),(2,3,12),(5,7,28)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,12),(5,7,28),(2,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(2,3,12),(2,3,11)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,20),(3,5,19),(9,13,56)); lvl=1; h,r-ind=9,3; optimized-h
```

20.28 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,5,20)); lvl=0; h,r-ind=20,80
  [5,3]((4,7,21),(1,2,5),(4,7,24),(6,11,38),(0,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,6),(3,6,19)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,38),(1,2,6),(3,6,19)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,31),(6,11,38),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,24),(5,9,31),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(0,1,0),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,21),(1,2,5),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,21),(8,14,45),(1,2,6)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,7,24),(8,14,45),(1,2,6)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,2,5),(2,4,7),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,0,0),(2,4,7),(3,5,10),(0,1,0)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,8),(1,1,2),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((1,1,2),(1,2,2),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,8),(1,2,3),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,8),(1,1,2),(2,3,5)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,10),(3,4,8),(1,2,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(1,1,2),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(2,4,7),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,10),(2,4,7),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[3,3]((3,5,20),(6,11,38),(0,1,0)); lvl=1; h,r-ind=6,6; optimized-h
[4,3]((3,4,16),(3,5,20),(3,5,18),(2,3,11)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,18),(3,5,19),(5,8,30)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,12),(9,14,53),(3,5,19),(5,8,30)); lvl=2; h,r-ind=1,1
    [3,3]((7,11,42),(9,14,53),(5,8,30)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,19),(7,11,42),(5,8,30)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,12),(3,5,19),(7,11,42)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,12),(7,11,42),(9,14,53)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,12),(3,5,20),(3,5,19)); lvl=2; h,r-ind=1,1
  [4,3]((9,14,53),(2,3,11),(3,5,18),(5,8,30)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,11),(3,5,18),(7,11,41)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,30),(3,5,18),(7,11,41)); lvl=3; h,r-ind=1,1
    [3,3]((9,14,53),(5,8,30),(7,11,41)); lvl=3; h,r-ind=1,1
    [3,3]((9,14,53),(2,3,11),(7,11,41)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,16),(2,3,12),(9,14,53),(2,3,11)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((2,3,12),(9,14,53),(4,6,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,11),(9,14,53),(4,6,23)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,16),(2,3,12),(4,6,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,11),(3,4,16),(4,6,23)); lvl=3; h,r-ind=1,1
[4,3]((3,5,20),(3,5,18),(4,7,24),(6,11,38)); lvl=1; h,r-ind=2,1
  [3,3]((4,7,25),(4,7,24),(3,5,18)); lvl=2; h,r-ind=1,1
  [3,3]((4,7,25),(3,5,19),(3,5,18)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,20),(9,16,58),(4,7,25),(3,5,19)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,25),(4,7,26),(9,16,58)); lvl=3; h,r-ind=1,1
    [3,3]((11,19,70),(4,7,25),(4,7,26)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,20),(3,5,19),(11,19,70),(4,7,26)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((7,12,45),(11,19,70),(3,5,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,20),(7,12,45),(3,5,19)); lvl=4; h,r-ind=1,1
      [3,3]((7,12,45),(4,7,26),(11,19,70)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,20),(7,12,45),(4,7,26)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,19),(11,19,70),(4,7,25)); lvl=3; h,r-ind=1,1
  [3,3]((4,7,25),(5,9,31),(4,7,24)); lvl=2; h,r-ind=1,1
  [4,3]((9,16,58),(4,7,25),(6,11,38),(5,9,31)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,25),(5,9,31),(14,25,88)); lvl=3; h,r-ind=1,1
    [4,3]((6,11,38),(5,9,32),(5,9,31),(14,25,88)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((10,18,63),(14,25,88),(5,9,32)); lvl=4; h,r-ind=1,1
      [3,3]((6,11,38),(10,18,63),(5,9,32)); lvl=4; h,r-ind=1,1
      [3,3]((10,18,63),(5,9,31),(14,25,88)); lvl=4; h,r-ind=1,1
      [3,3]((6,11,38),(10,18,63),(5,9,31)); lvl=4; h,r-ind=1,1
    [3,3]((5,9,32),(4,7,25),(14,25,88)); lvl=3; h,r-ind=1,1
    [3,3]((9,16,58),(5,9,32),(4,7,25)); lvl=3; h,r-ind=1,1
[5,3]((4,7,21),(1,2,5),(3,5,15),(2,4,7),(3,5,10)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,10),(1,2,4),(2,4,7)); lvl=2; h,r-ind=1,1
  [4,3]((6,10,25),(4,7,17),(3,5,10),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(4,7,17),(8,14,33)); lvl=3; h,r-ind=1,1
    [4,3]((6,10,25),(3,5,12),(4,7,17),(8,14,33)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,7,17),(7,12,29),(8,14,33)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,12),(7,12,29),(8,14,33)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,25),(4,7,17),(7,12,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,12),(6,10,25),(7,12,29)); lvl=4; h,r-ind=1,1
    [4,3]((3,5,12),(6,10,23),(1,2,4),(8,14,33)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((6,10,23),(4,7,16),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((8,14,33),(4,7,16),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,12),(6,10,23),(4,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,12),(8,14,33),(4,7,16)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,10),(6,10,23),(1,2,4)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,2,5),(4,7,17),(4,7,20),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(7,13,32),(4,7,17),(8,14,37)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((5,9,23),(8,14,37),(4,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,23),(11,20,49),(4,7,18)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,4),(11,20,49),(4,7,17),(4,7,18)); lvl=4; h,r-ind=1,3
        [3,3]((5,9,22),(4,7,17),(4,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((11,20,49),(5,9,22),(4,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(11,20,49),(5,9,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(5,9,22),(4,7,17)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,4),(7,13,32),(5,9,23),(11,20,49)); lvl=4; h,r-ind=1,3
        [3,3]((7,13,32),(6,11,27),(5,9,23)); lvl=5; h,r-ind=1,1
        [3,3]((11,20,49),(6,11,27),(5,9,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(7,13,32),(6,11,27)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((11,20,49),(1,2,4),(6,11,27)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,5),(7,13,32),(4,7,20),(8,14,37)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((5,9,23),(4,7,19),(8,14,37)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,23),(11,20,52),(4,7,19)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,5),(11,20,52),(4,7,20),(4,7,19)); lvl=4; h,r-ind=1,3
          [3,3]((5,9,24),(4,7,20),(4,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((11,20,52),(5,9,24),(4,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(11,20,52),(5,9,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(5,9,24),(4,7,20)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,5),(5,9,23),(7,13,32),(11,20,52)); lvl=4; h,r-ind=1,3
          [3,3]((7,13,32),(6,11,28),(5,9,23)); lvl=5; h,r-ind=1,1
          [3,3]((11,20,52),(6,11,28),(5,9,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(7,13,32),(6,11,28)); lvl=5; h,r-ind=1,1
          [3,3]((11,20,52),(1,2,5),(6,11,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(7,13,32)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,21),(1,2,5),(4,7,20)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,15),(6,10,25),(4,7,17),(4,7,20)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,13),(6,10,25),(4,7,17)); lvl=3; h,r-ind=1,1
      [4,3]((6,10,27),(8,14,37),(3,5,13),(4,7,17)); lvl=3; h,r-ind=1,1
        [4,3]((17,29,76),(3,5,13),(4,7,17),(4,7,18)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((7,12,31),(3,5,13),(4,7,17)); lvl=5; h,r-ind=1,1
          [3,3]((7,12,31),(4,7,18),(4,7,17)); lvl=5; h,r-ind=1,1
          [3,3]((17,29,76),(7,12,31),(4,7,18)); lvl=5; h,r-ind=1,1
          [3,3]((17,29,76),(7,12,31),(3,5,13)); lvl=5; h,r-ind=1,1
        [4,3]((10,17,45),(17,29,76),(7,12,32),(4,7,18)); lvl=4; h,r-ind=1,1
          [3,3]((14,24,63),(4,7,18),(17,29,76)); lvl=5; h,r-ind=1,1
          [3,3]((10,17,45),(14,24,63),(17,29,76)); lvl=5; h,r-ind=1,1
          [3,3]((10,17,45),(7,12,32),(14,24,63)); lvl=5; h,r-ind=1,1
          [3,3]((7,12,32),(14,24,63),(4,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((7,12,32),(8,14,37),(4,7,18)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,27),(10,17,45),(7,12,32)); lvl=4; h,r-ind=1,1
        [4,3]((6,10,27),(10,17,45),(17,29,76),(3,5,13)); lvl=4; h,r-ind=1,1
          [3,3]((13,22,58),(17,29,76),(10,17,45)); lvl=5; h,r-ind=1,1
          [3,3]((6,10,27),(13,22,58),(10,17,45)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,13),(6,10,27),(13,22,58)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,13),(13,22,58),(17,29,76)); lvl=5; h,r-ind=1,1
      [4,3]((3,5,15),(6,10,27),(4,7,20),(8,14,37)); lvl=3; h,r-ind=3,1; alert-h-inc
        [3,3]((7,12,32),(4,7,19),(8,14,37)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,14),(7,12,32),(4,7,19)); lvl=4; h,r-ind=1,1
        [4,3]((3,5,15),(3,5,14),(4,7,20),(4,7,19)); lvl=4; h,r-ind=1,1
          [3,3]((4,7,20),(4,7,19),(7,12,34)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,14),(4,7,19),(7,12,34)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,15),(4,7,20),(7,12,34)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,14),(3,5,15),(7,12,34)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,14),(6,10,27),(7,12,32)); lvl=4; h,r-ind=1,1
    [3,3]((4,7,21),(3,5,15),(4,7,20)); lvl=2; h,r-ind=1,1
[6,3]((4,7,21),(3,5,15),(3,5,18),(4,7,24),(2,3,11),(2,3,10)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,16),(3,5,15),(4,7,21)); lvl=2; h,r-ind=1,1
    [4,3]((8,14,45),(6,10,33),(3,5,16),(4,7,21)); lvl=2; h,r-ind=1,1
      [4,3]((6,10,33),(10,17,55),(17,29,93),(3,5,16)); lvl=3; h,r-ind=1,1
        [3,3]((10,17,55),(17,29,93),(13,22,71)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,16),(17,29,93),(13,22,71)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,33),(10,17,55),(13,22,71)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,16),(6,10,33),(13,22,71)); lvl=4; h,r-ind=1,1
      [4,3]((4,7,21),(4,7,22),(17,29,93),(3,5,16)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((4,7,22),(7,12,38),(17,29,93)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,16),(7,12,38),(17,29,93)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,21),(3,5,16),(7,12,38)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,21),(4,7,22),(7,12,38)); lvl=4; h,r-ind=1,1
      [3,3]((7,12,39),(6,10,33),(10,17,55)); lvl=3; h,r-ind=1,1
      [4,3]((4,7,22),(7,12,39),(10,17,55),(17,29,93)); lvl=3; h,r-ind=1,1
        [3,3]((14,24,77),(10,17,55),(7,12,39)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,22),(14,24,77),(7,12,39)); lvl=4; h,r-ind=1,1
        [3,3]((14,24,77),(17,29,93),(10,17,55)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,22),(14,24,77),(17,29,93)); lvl=4; h,r-ind=1,1
      [3,3]((8,14,45),(4,7,22),(7,12,39)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,17),(4,7,24),(8,14,45),(6,10,33)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,23),(7,12,39),(8,14,45)); lvl=3; h,r-ind=1,1
      [4,3]((4,7,23),(10,17,56),(17,29,96),(7,12,39)); lvl=3; h,r-ind=1,1
        [3,3]((14,24,79),(17,29,96),(10,17,56)); lvl=4; h,r-ind=1,1
        [3,3]((7,12,39),(14,24,79),(10,17,56)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,23),(7,12,39),(14,24,79)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,23),(14,24,79),(17,29,96)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,33),(10,17,56),(7,12,39)); lvl=3; h,r-ind=1,1
      [4,3]((6,10,33),(3,5,17),(10,17,56),(17,29,96)); lvl=3; h,r-ind=1,1
        [3,3]((3,5,17),(17,29,96),(13,22,73)); lvl=4; h,r-ind=1,1
        [3,3]((10,17,56),(17,29,96),(13,22,73)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,33),(10,17,56),(13,22,73)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,33),(3,5,17),(13,22,73)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,17),(4,7,24),(4,7,23),(17,29,96)); lvl=3; h,r-ind=1,3; alert-r-inc
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        [3,3]((7,12,40),(4,7,24),(4,7,23)); lvl=4; h,r-ind=1,1
        [3,3]((17,29,96),(7,12,40),(4,7,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,17),(17,29,96),(7,12,40)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,17),(7,12,40),(4,7,24)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,18),(3,5,17),(4,7,24)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,16),(3,5,15),(2,3,10)); lvl=2; h,r-ind=1,1
    [4,3]((5,8,27),(6,10,33),(3,5,16),(2,3,10)); lvl=2; h,r-ind=1,1
      [3,3]((6,10,33),(3,5,16),(8,13,43)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(3,5,16),(8,13,43)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,27),(6,10,33),(8,13,43)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(5,8,27),(8,13,43)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,27),(2,3,11),(2,3,10)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,17),(5,8,27),(6,10,33),(2,3,11)); lvl=2; h,r-ind=1,1
      [3,3]((6,10,33),(5,8,27),(8,13,44)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,11),(5,8,27),(8,13,44)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,17),(6,10,33),(8,13,44)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,11),(3,5,17),(8,13,44)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,18),(3,5,17),(2,3,11)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,4),(3,4,16),(2,3,11),(2,3,10)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,16),(3,4,15),(2,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(3,4,15),(2,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(3,4,16),(3,4,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(1,1,4),(3,4,15)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(1,1,4),(3,5,15),(3,5,10),(2,3,10)); lvl=1; h,r-ind=1,1
    [4,3]((3,4,11),(3,4,12),(2,3,8),(2,3,9)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,20),(2,3,9),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,11),(5,7,20),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,12),(5,7,20),(2,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,11),(3,4,12),(5,7,20)); lvl=3; h,r-ind=1,1
    [4,3]((6,10,25),(3,5,15),(2,3,8),(2,3,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,8),(2,3,9),(9,14,39)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,15),(6,10,27),(2,3,9),(9,14,39)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,3,9),(12,19,54),(5,8,22),(9,14,39)); lvl=4; h,r-ind=1,3
          [3,3]((7,11,31),(5,8,22),(12,19,54)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,9),(7,11,31),(12,19,54)); lvl=5; h,r-ind=1,1
          [3,3]((9,14,39),(7,11,31),(5,8,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,9),(9,14,39),(7,11,31)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,14),(12,19,54),(5,8,22)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,5,14),(6,10,27),(5,8,22)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,9),(3,5,14),(3,5,15),(12,19,54)); lvl=4; h,r-ind=1,3
          [3,3]((5,8,23),(3,5,14),(3,5,15)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,9),(5,8,23),(3,5,15)); lvl=5; h,r-ind=1,1
          [3,3]((12,19,54),(5,8,23),(3,5,14)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,9),(12,19,54),(5,8,23)); lvl=5; h,r-ind=1,1
      [4,3]((3,5,13),(6,10,27),(2,3,8),(9,14,39)); lvl=3; h,r-ind=1,1
        [4,3]((3,5,13),(5,8,22),(6,10,27),(10,16,43)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,8,22),(6,10,27),(8,13,35)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,13),(6,10,27),(8,13,35)); lvl=5; h,r-ind=1,1
          [3,3]((10,16,43),(5,8,22),(8,13,35)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,13),(10,16,43),(8,13,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,8),(3,5,13),(10,16,43)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(5,8,22),(10,16,43)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(9,14,39),(5,8,22)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,13),(6,10,25),(2,3,8)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,10),(3,4,13),(3,4,12),(2,3,9)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,22),(3,4,12),(3,4,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(5,7,22),(3,4,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(5,7,22),(3,4,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(2,3,9),(5,7,22)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,15),(2,3,10),(2,3,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(1,1,4),(3,4,13),(3,4,12)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,4),(3,4,13),(4,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,12),(3,4,13),(4,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,12),(4,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,4),(4,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(1,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(1,1,4),(3,4,13)); lvl=2; h,r-ind=1,1
    [5,3]((3,4,8),(3,5,10),(6,10,25),(3,4,11),(2,3,8)); lvl=2; h,r-ind=1,1
      [4,3]((4,6,15),(3,5,12),(6,10,25),(2,3,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,12),(6,10,25),(5,8,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(6,10,25),(5,8,20)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(2,3,8),(5,8,20)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(3,5,12),(5,8,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,11),(4,6,15),(2,3,8)); lvl=3; h,r-ind=1,1
      [4,3]((4,6,15),(2,3,7),(3,5,12),(6,10,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,12),(5,8,19),(6,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(5,8,19),(6,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(3,5,12),(5,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(4,6,15),(5,8,19)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,11),(6,8,19),(4,6,15),(2,3,7)); lvl=3; h,r-ind=1,2; alert-r-inc
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      [3,3]((7,10,25),(2,3,7),(4,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,11),(7,10,25),(4,6,15)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
      [3,3]((3,4,10),(7,10,25),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(6,8,19),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,11),(3,4,10),(7,10,25)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
    [4,3]((2,3,6),(3,4,8),(6,8,19),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(3,4,9),(7,10,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,6),(7,10,22)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,6),(3,4,8),(3,4,9),(7,10,22)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,15),(3,4,9),(3,4,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,6),(5,7,15),(3,4,8)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,15),(7,10,22),(3,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,6),(5,7,15),(7,10,22)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,7),(3,4,9),(6,8,19)); lvl=4; h,r-ind=1,1
    [4,3]((3,5,10),(2,3,6),(2,3,7),(6,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,24),(2,3,7),(2,3,6)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,10),(7,11,24),(3,5,11),(2,3,6)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,8,17),(3,5,11),(7,11,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,6),(5,8,17),(7,11,24)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,10),(2,3,6),(5,8,17)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,10),(5,8,17),(3,5,11)); lvl=5; h,r-ind=1,1
      [3,3]((7,11,24),(3,5,11),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,23),(3,5,11),(2,3,7)); lvl=4; h,r-ind=1,1
  [4,3]((1,1,2),(1,1,3),(3,4,8),(3,4,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(6,7,17),(3,4,11),(6,8,19)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((4,5,12),(6,8,19),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,12),(9,11,28),(3,4,10)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,1,3),(9,11,28),(3,4,11),(3,4,10)); lvl=4; h,r-ind=1,3
        [3,3]((3,4,10),(4,5,13),(3,4,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(4,5,13),(3,4,11)); lvl=5; h,r-ind=1,1
        [3,3]((9,11,28),(1,1,3),(4,5,13)); lvl=5; h,r-ind=1,1
        [3,3]((9,11,28),(3,4,10),(4,5,13)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,3),(6,7,17),(4,5,12),(9,11,28)); lvl=4; h,r-ind=1,3
        [3,3]((4,5,12),(5,6,15),(6,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(5,6,15),(6,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((9,11,28),(4,5,12),(5,6,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(9,11,28),(5,6,15)); lvl=5; h,r-ind=1,1
    [4,3]((1,1,2),(6,7,17),(3,4,8),(6,8,19)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,1,2),(9,11,25),(3,4,9),(3,4,8)); lvl=4; h,r-ind=1,3
        [3,3]((4,5,11),(3,4,9),(9,11,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(4,5,11),(9,11,25)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,8),(4,5,11),(3,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(3,4,8),(4,5,11)); lvl=5; h,r-ind=1,1
      [3,3]((9,11,25),(4,5,12),(3,4,9)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((4,5,12),(6,8,19),(3,4,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,2),(9,11,25),(4,5,12),(6,7,17)); lvl=4; h,r-ind=1,3
        [3,3]((9,11,25),(4,5,12),(5,6,14)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,17),(4,5,12),(5,6,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(6,7,17),(5,6,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(9,11,25),(5,6,14)); lvl=5; h,r-ind=1,1
    [3,3]((1,1,2),(1,1,3),(6,7,17)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,3),(3,4,11),(3,4,12)); lvl=2; h,r-ind=1,1
```

20.29 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,6,20)); lvl=0; h,r-ind=20,200
  [4,3]((3,6,20),(3,5,16),(2,3,10),(2,4,13)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,10),(4,7,23),(3,5,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,13),(4,7,23),(3,5,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,20),(2,4,13),(4,7,23)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,20),(2,3,10),(4,7,23)); lvl=2; h,r-ind=1,1
  [4,3]((3,6,19),(4,7,22),(3,5,16),(2,4,13)); lvl=1; h,r-ind=1,1
    [3,3]((6,11,35),(3,5,16),(4,7,22)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,19),(6,11,35),(4,7,22)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,13),(6,11,35),(3,5,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,19),(2,4,13),(6,11,35)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,6,19),(2,4,13)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,20),(0,1,0),(2,4,13)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,6,19),(1,2,5)); lvl=1; h,r-ind=4,4; optimized-h
  [4,3]((1,1,3),(4,7,22),(3,5,16),(2,3,9)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,16),(4,7,22),(5,8,25)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(4,7,22),(5,8,25)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,5,16),(5,8,25)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(1,1,3),(5,8,25)); lvl=2; h,r-ind=1,1
  [4,3]((3,6,19),(1,2,5),(4,7,22),(2,3,9)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,6),(2,3,9),(7,12,37)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((4,7,22),(2,3,9),(7,12,37)); lvl=2; h,r-ind=1,1
    [4,3]((4,7,22),(3,6,19),(1,2,6),(7,12,37)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,6),(3,6,19),(5,9,28)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,22),(3,6,19),(5,9,28)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,37),(1,2,6),(5,9,28)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,22),(7,12,37),(5,9,28)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(1,2,5),(2,3,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,5),(2,4,7)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,1,3),(3,5,16),(1,0,0),(2,3,10)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,13),(2,3,10),(3,5,16)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,13),(3,5,16)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,0,0),(3,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,4,13),(2,3,10)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,5),(1,1,2),(2,4,7),(1,1,3),(2,3,9)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,8),(2,3,7),(1,2,5),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,5),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(1,2,5),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,8),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(1,2,4),(3,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(4,5,12),(2,3,7),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,9),(2,3,7),(4,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,9),(4,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,9),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,4,7),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(4,5,12),(2,3,8),(2,3,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,8),(3,4,10),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(3,4,10),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,12),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,8),(3,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,1,3),(4,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(2,3,9),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,8),(2,3,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,2),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,1,2),(2,4,7),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(1,1,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,2),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(1,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,2),(1,1,1),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,3),(1,1,1),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,2),(1,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,7),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,7),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
```

20.30 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,7,20)); lvl=0; h,r-ind=20,400
  [4,3]((1,0,0),(0,1,0),(2,5,7),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,7),(3,7,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,3),(2,5,7),(3,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(0,1,0),(3,7,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,2,3),(1,1,1),(1,2,2),(3,7,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,2),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,9),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,4),(3,7,14),(2,5,9),(2,5,7),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,4),(3,7,13),(3,7,12),(5,11,19)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,7,13),(4,9,16),(3,7,12)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((5,11,19),(4,9,16),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(5,11,19),(4,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,13),(4,9,16)); lvl=3; h,r-ind=1,1
    [5,3]((1,2,3),(2,5,7),(2,5,8),(3,7,12),(5,11,19)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,8),(3,7,11),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,11),(2,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,8),(3,7,11),(6,14,23),(7,16,26)); lvl=3; h,r-ind=1,1
        [3,3]((9,21,34),(7,16,26),(3,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(9,21,34),(3,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,23),(9,21,34),(7,16,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(6,14,23),(9,21,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,11),(7,16,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(6,14,23),(3,7,12)); lvl=3; h,r-ind=1,1
      [4,3]((6,14,23),(4,9,15),(7,16,26),(3,7,12)); lvl=3; h,r-ind=1,1
        [3,3]((10,23,38),(7,16,26),(4,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(10,23,38),(4,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,23),(3,7,12),(10,23,38)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,23),(10,23,38),(7,16,26)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,19),(4,9,15),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,19),(4,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,9,15),(7,16,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(5,11,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(3,7,14),(3,7,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(3,7,14),(3,7,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,8),(2,5,9),(3,7,13),(3,7,12)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,21),(3,7,13),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(5,12,21),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(2,5,8),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(5,12,21),(3,7,13)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(6,7,19),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,2
    [4,3]((2,2,5),(1,1,2),(7,9,23),(1,2,4)); lvl=2; h,r-ind=1,1
      [4,3]((5,7,17),(7,8,19),(1,2,4),(1,1,2)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((8,10,23),(4,5,12),(7,8,19),(1,1,2)); lvl=4; h,r-ind=1,3
          [3,3]((4,5,12),(5,6,14),(7,8,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(5,6,14),(7,8,19)); lvl=5; h,r-ind=1,1
          [3,3]((8,10,23),(4,5,12),(5,6,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(8,10,23),(5,6,14)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,7),(1,2,4),(8,10,23),(1,1,2)); lvl=4; h,r-ind=1,3
          [3,3]((3,4,9),(1,2,4),(1,1,2)); lvl=5; h,r-ind=1,1
          [3,3]((8,10,23),(3,4,9),(1,1,2)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,7),(8,10,23),(3,4,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,7),(3,4,9),(1,2,4)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,7),(8,10,23),(4,5,12)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((5,7,17),(2,3,7),(4,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,5),(7,8,19),(1,1,2)); lvl=3; h,r-ind=1,1
      [4,3]((2,2,5),(3,4,10),(5,7,17),(7,8,19)); lvl=3; h,r-ind=1,1
        [4,3]((4,5,12),(3,4,10),(5,7,17),(9,11,27)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((7,9,22),(5,7,17),(3,4,10)); lvl=5; h,r-ind=1,1
          [3,3]((9,11,27),(7,9,22),(3,4,10)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,12),(9,11,27),(7,9,22)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,12),(7,9,22),(5,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,5),(4,5,12),(9,11,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,5),(7,8,19),(4,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,5),(3,4,10),(9,11,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,5),(7,9,23),(3,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,5),(3,3,8),(6,7,19),(7,9,23)); lvl=2; h,r-ind=1,1
      [4,3]((3,3,8),(9,11,29),(12,13,34),(6,7,19)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((7,8,21),(9,11,29),(5,6,16)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,21),(18,20,53),(5,6,16)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((3,3,8),(6,7,19),(18,20,53),(5,6,16)); lvl=4; h,r-ind=1,3
          [3,3]((6,7,19),(8,9,24),(5,6,16)); lvl=5; h,r-ind=1,1
          [3,3]((18,20,53),(8,9,24),(5,6,16)); lvl=5; h,r-ind=1,1
          [3,3]((3,3,8),(18,20,53),(8,9,24)); lvl=5; h,r-ind=1,1
          [3,3]((3,3,8),(6,7,19),(8,9,24)); lvl=5; h,r-ind=1,1
        [4,3]((3,3,8),(12,13,34),(7,8,21),(18,20,53)); lvl=4; h,r-ind=1,3
          [3,3]((7,8,21),(10,11,29),(12,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((3,3,8),(10,11,29),(12,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((18,20,53),(7,8,21),(10,11,29)); lvl=5; h,r-ind=1,1
          [3,3]((3,3,8),(18,20,53),(10,11,29)); lvl=5; h,r-ind=1,1
      [3,3]((2,2,5),(3,3,8),(12,13,34)); lvl=3; h,r-ind=1,1
      [4,3]((2,2,5),(9,11,29),(4,5,13),(12,13,34)); lvl=3; h,r-ind=1,1
        [4,3]((4,5,13),(7,8,21),(13,15,39),(9,11,29)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((11,13,34),(7,8,21),(13,15,39)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,13),(11,13,34),(13,15,39)); lvl=5; h,r-ind=1,1
          [3,3]((11,13,34),(9,11,29),(7,8,21)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,13),(11,13,34),(9,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,5),(4,5,13),(13,15,39)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,5),(7,8,21),(13,15,39)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,5),(12,13,34),(7,8,21)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,2,5),(7,9,23),(4,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(3,3,8),(6,7,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,5),(3,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,5),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,0,0),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(6,7,19),(3,4,11)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,9),(1,3,5),(0,1,0),(2,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(0,1,0),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(1,3,4),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(2,5,8),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(2,5,8),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(1,3,4),(0,1,0)); lvl=2; h,r-ind=1,1
  [7,3]((3,7,14),(2,5,9),(1,3,6),(1,3,5),(3,7,18),(3,8,19),(5,12,31)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,5),(4,11,22)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,11),(2,5,10),(1,3,5),(4,11,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,16),(2,5,10),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,22),(3,8,16),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(4,11,22),(3,8,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(3,8,16),(2,5,10)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,14),(2,5,11),(3,7,16),(2,5,10)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,15),(3,7,16),(2,5,11),(7,17,36)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,26),(3,7,16),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,36),(5,12,26),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,15),(7,17,36),(5,12,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,15),(5,12,26),(3,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(2,5,11),(7,17,36)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,10),(3,7,14),(3,7,15),(7,17,36)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,25),(3,7,15),(3,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(5,12,25),(3,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,25),(7,17,36),(3,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(5,12,25),(7,17,36)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,9),(2,5,10),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,14),(2,5,9),(2,5,10)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,11),(1,3,6),(2,5,12),(4,11,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,17),(1,3,6),(2,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(3,8,17),(2,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,22),(3,8,17),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(4,11,22),(3,8,17)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,11),(3,7,16),(3,7,18),(2,5,12)); lvl=2; h,r-ind=1,1
      [4,3]((7,17,40),(2,5,12),(3,7,17),(3,7,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,29),(3,7,17),(3,7,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(5,12,29),(3,7,18)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,40),(5,12,29),(3,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(7,17,40),(5,12,29)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,11),(7,17,40),(3,7,16),(3,7,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,16),(5,12,28),(3,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,40),(5,12,28),(3,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(3,7,16),(5,12,28)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,40),(2,5,11),(5,12,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(7,17,40),(2,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(3,8,19),(2,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,19),(2,5,12),(4,10,25)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,12),(4,10,25),(5,12,31)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,18),(2,5,12),(5,12,31)); lvl=2; h,r-ind=1,1
  [6,3]((6,7,19),(1,2,4),(3,7,14),(3,4,11),(3,7,18),(11,24,66)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,5),(3,7,16),(3,7,18)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((1,2,5),(9,20,54),(6,13,35),(4,8,21),(3,7,18)); lvl=2; h,r-ind=1,1
      [3,3]((8,17,45),(4,8,21),(1,2,5)); lvl=3; h,r-ind=1,1
      [4,3]((12,26,69),(8,17,45),(19,41,109),(1,2,5)); lvl=3; h,r-ind=1,1
        [3,3]((19,41,109),(20,43,114),(8,17,45)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(20,43,114),(8,17,45)); lvl=4; h,r-ind=1,1
        [3,3]((12,26,69),(19,41,109),(20,43,114)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(12,26,69),(20,43,114)); lvl=4; h,r-ind=1,1
      [4,3]((4,9,24),(3,7,18),(12,26,69),(1,2,5)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,7,18),(5,11,29),(1,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((12,26,69),(5,11,29),(1,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,24),(12,26,69),(5,11,29)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,24),(3,7,18),(5,11,29)); lvl=4; h,r-ind=1,1
      [5,3]((4,9,24),(10,22,59),(17,37,99),(12,26,69),(19,41,109)); lvl=3; h,r-ind=1,1
        [3,3]((18,39,104),(11,24,64),(19,41,109)); lvl=4; h,r-ind=1,1
        [3,3]((12,26,69),(11,24,64),(19,41,109)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,24),(12,26,69),(11,24,64)); lvl=4; h,r-ind=1,1
        [3,3]((10,22,59),(4,9,24),(11,24,64)); lvl=4; h,r-ind=1,1
        [3,3]((17,37,99),(18,39,104),(11,24,64)); lvl=4; h,r-ind=1,1
        [3,3]((10,22,59),(17,37,99),(11,24,64)); lvl=4; h,r-ind=1,1
      [3,3]((9,20,54),(4,9,24),(10,22,59)); lvl=3; h,r-ind=1,1
      [4,3]((9,20,54),(6,13,35),(10,22,59),(17,37,99)); lvl=3; h,r-ind=1,1
        [3,3]((6,13,35),(17,37,99),(16,35,94)); lvl=4; h,r-ind=1,1
        [3,3]((10,22,59),(17,37,99),(16,35,94)); lvl=4; h,r-ind=1,1
        [3,3]((9,20,54),(10,22,59),(16,35,94)); lvl=4; h,r-ind=1,1
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      [3,3]((9,20,54),(6,13,35),(16,35,94)); lvl=4; h,r-ind=1,1
    [5,3]((6,13,35),(17,37,99),(8,17,45),(19,41,109),(4,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,40),(18,39,104),(17,37,99)); lvl=4; h,r-ind=1,1
      [3,3]((6,13,35),(7,15,40),(17,37,99)); lvl=4; h,r-ind=1,1
      [3,3]((7,15,40),(19,41,109),(18,39,104)); lvl=4; h,r-ind=1,1
      [3,3]((7,15,40),(19,41,109),(8,17,45)); lvl=4; h,r-ind=1,1
      [3,3]((7,15,40),(4,8,21),(8,17,45)); lvl=4; h,r-ind=1,1
      [3,3]((6,13,35),(7,15,40),(4,8,21)); lvl=4; h,r-ind=1,1
  [3,3]((5,11,30),(9,20,54),(6,13,35)); lvl=2; h,r-ind=1,1
  [4,3]((2,4,11),(5,11,30),(6,13,35),(4,8,21)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,35),(5,11,30),(14,30,81)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,11),(3,6,16),(5,11,30),(14,30,81)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((8,17,46),(3,6,16),(14,30,81)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,30),(8,17,46),(14,30,81)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,11),(5,11,30),(8,17,46)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,11),(8,17,46),(3,6,16)); lvl=4; h,r-ind=1,1
    [4,3]((4,8,21),(3,6,16),(6,13,35),(14,30,81)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((9,19,51),(14,30,81),(3,6,16)); lvl=4; h,r-ind=1,1
      [3,3]((4,8,21),(9,19,51),(3,6,16)); lvl=4; h,r-ind=1,1
      [3,3]((9,19,51),(6,13,35),(14,30,81)); lvl=4; h,r-ind=1,1
      [3,3]((4,8,21),(9,19,51),(6,13,35)); lvl=4; h,r-ind=1,1
  [3,3]((2,4,11),(11,24,66),(5,11,30)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,13),(1,2,5),(6,11,29),(4,8,21)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,21),(1,2,5),(7,13,34)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,13),(1,2,5),(7,13,34)); lvl=3; h,r-ind=1,1
    [3,3]((6,11,29),(3,5,13),(7,13,34)); lvl=3; h,r-ind=1,1
    [3,3]((6,11,29),(4,8,21),(7,13,34)); lvl=3; h,r-ind=1,1
  [4,3]((2,4,11),(5,9,24),(6,11,29),(4,8,21)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,29),(5,9,24),(14,26,69)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,11),(3,6,16),(5,9,24),(14,26,69)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((8,15,40),(3,6,16),(14,26,69)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,24),(8,15,40),(14,26,69)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,11),(8,15,40),(3,6,16)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,24),(2,4,11),(8,15,40)); lvl=4; h,r-ind=1,1
    [4,3]((4,8,21),(3,6,16),(6,11,29),(14,26,69)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((9,17,45),(14,26,69),(3,6,16)); lvl=4; h,r-ind=1,1
      [3,3]((4,8,21),(9,17,45),(3,6,16)); lvl=4; h,r-ind=1,1
      [3,3]((6,11,29),(4,8,21),(9,17,45)); lvl=4; h,r-ind=1,1
      [3,3]((6,11,29),(9,17,45),(14,26,69)); lvl=4; h,r-ind=1,1
  [4,3]((3,5,13),(2,3,8),(5,9,24),(6,11,29)); lvl=2; h,r-ind=1,1
    [3,3]((8,14,37),(5,9,24),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,13),(8,14,37),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((6,11,29),(3,5,13),(8,14,37)); lvl=3; h,r-ind=1,1
    [3,3]((6,11,29),(8,14,37),(5,9,24)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,11),(2,4,11),(2,3,8),(5,9,24)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,19),(2,4,11),(5,9,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,8),(4,7,19),(5,9,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,8),(3,4,11),(4,7,19)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,11),(4,7,19),(2,4,11)); lvl=3; h,r-ind=1,1
  [3,3]((3,7,14),(1,2,5),(3,7,16)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,2,4),(3,7,14),(1,2,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,4),(7,9,23),(3,5,13),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((7,11,28),(3,5,13),(5,7,18)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((4,6,15),(3,4,10),(7,11,28),(12,19,48),(5,7,18)); lvl=3; h,r-ind=1,1
      [4,3]((6,9,23),(11,17,43),(10,15,38),(7,11,28)); lvl=4; h,r-ind=1,1
        [3,3]((17,26,66),(11,17,43),(10,15,38)); lvl=5; h,r-ind=1,1
        [3,3]((6,9,23),(17,26,66),(10,15,38)); lvl=5; h,r-ind=1,1
        [3,3]((7,11,28),(6,9,23),(17,26,66)); lvl=5; h,r-ind=1,1
        [3,3]((7,11,28),(17,26,66),(11,17,43)); lvl=5; h,r-ind=1,1
      [5,3]((3,4,10),(17,25,63),(5,7,18),(6,9,23),(10,15,38)); lvl=4; h,r-ind=1,1
        [4,3]((6,9,23),(22,32,81),(19,28,71),(9,13,33)); lvl=5; h,r-ind=1,1
          [3,3]((22,32,81),(19,28,71),(28,41,104)); lvl=6; h,r-ind=1,1
          [3,3]((6,9,23),(19,28,71),(28,41,104)); lvl=6; h,r-ind=1,1
          [3,3]((9,13,33),(6,9,23),(28,41,104)); lvl=6; h,r-ind=1,1
          [3,3]((9,13,33),(22,32,81),(28,41,104)); lvl=6; h,r-ind=1,1
        [3,3]((6,9,23),(5,7,18),(9,13,33)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,10),(5,7,18),(9,13,33)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,10),(22,32,81),(9,13,33)); lvl=5; h,r-ind=1,1
        [4,3]((10,15,38),(13,19,48),(22,32,81),(19,28,71)); lvl=5; h,r-ind=1,1
          [3,3]((32,47,119),(13,19,48),(22,32,81)); lvl=6; h,r-ind=1,1
          [3,3]((19,28,71),(32,47,119),(22,32,81)); lvl=6; h,r-ind=1,1
          [3,3]((10,15,38),(19,28,71),(32,47,119)); lvl=6; h,r-ind=1,1
          [3,3]((10,15,38),(32,47,119),(13,19,48)); lvl=6; h,r-ind=1,1
        [3,3]((6,9,23),(10,15,38),(19,28,71)); lvl=5; h,r-ind=1,1
        [3,3]((10,15,38),(17,25,63),(13,19,48)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,10),(17,25,63),(13,19,48)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,10),(13,19,48),(22,32,81)); lvl=5; h,r-ind=1,1
      [3,3]((12,19,48),(11,17,43),(7,11,28)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,15),(12,19,48),(11,17,43)); lvl=4; h,r-ind=1,1
      [4,3]((4,6,15),(17,25,63),(11,17,43),(10,15,38)); lvl=4; h,r-ind=1,2; alert-r-inc
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      [3,3]((14,21,53),(10,15,38),(17,25,63)); lvl=5; h,r-ind=1,1
      [3,3]((4,6,15),(14,21,53),(17,25,63)); lvl=5; h,r-ind=1,1
      [3,3]((11,17,43),(14,21,53),(10,15,38)); lvl=5; h,r-ind=1,1
      [3,3]((4,6,15),(11,17,43),(14,21,53)); lvl=5; h,r-ind=1,1
    [3,3]((3,4,10),(4,6,15),(17,25,63)); lvl=4; h,r-ind=1,1
  [3,3]((3,4,10),(7,9,23),(5,7,18)); lvl=3; h,r-ind=1,1
  [5,3]((1,2,5),(1,2,4),(4,6,15),(5,7,17),(12,19,48)); lvl=3; h,r-ind=1,1
    [4,3]((4,6,15),(11,17,42),(12,19,47),(5,8,20)); lvl=4; h,r-ind=1,1
      [3,3]((16,25,62),(12,19,47),(11,17,42)); lvl=5; h,r-ind=1,1
      [3,3]((4,6,15),(16,25,62),(11,17,42)); lvl=5; h,r-ind=1,1
      [3,3]((5,8,20),(4,6,15),(16,25,62)); lvl=5; h,r-ind=1,1
      [3,3]((5,8,20),(16,25,62),(12,19,47)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,5),(8,13,32),(12,19,47),(5,8,20)); lvl=4; h,r-ind=1,1
      [3,3]((8,13,32),(12,19,47),(13,21,52)); lvl=5; h,r-ind=1,1
      [3,3]((5,8,20),(12,19,47),(13,21,52)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,5),(8,13,32),(13,21,52)); lvl=5; h,r-ind=1,1
      [3,3]((5,8,20),(1,2,5),(13,21,52)); lvl=5; h,r-ind=1,1
    [3,3]((12,19,48),(4,6,15),(5,8,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(12,19,48),(5,8,20)); lvl=4; h,r-ind=1,1
    [5,3]((2,3,7),(8,13,32),(6,9,22),(11,17,42),(12,19,47)); lvl=4; h,r-ind=1,1
      [3,3]((7,11,27),(11,17,42),(12,19,47)); lvl=5; h,r-ind=1,1
      [3,3]((8,13,32),(7,11,27),(12,19,47)); lvl=5; h,r-ind=1,1
      [3,3]((6,9,22),(7,11,27),(11,17,42)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,7),(6,9,22),(7,11,27)); lvl=5; h,r-ind=1,1
      [3,3]((8,13,32),(2,3,7),(7,11,27)); lvl=5; h,r-ind=1,1
    [3,3]((5,7,17),(2,3,7),(6,9,22)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,5),(2,3,7),(1,2,4),(8,13,32)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((3,5,12),(1,2,4),(2,3,7)); lvl=5; h,r-ind=1,1
      [3,3]((8,13,32),(3,5,12),(2,3,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,5),(8,13,32),(3,5,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,5),(3,5,12),(1,2,4)); lvl=5; h,r-ind=1,1
    [4,3]((5,7,17),(4,6,15),(6,9,22),(11,17,42)); lvl=4; h,r-ind=1,1
      [3,3]((10,15,37),(4,6,15),(11,17,42)); lvl=5; h,r-ind=1,1
      [3,3]((10,15,37),(6,9,22),(11,17,42)); lvl=5; h,r-ind=1,1
      [3,3]((5,7,17),(10,15,37),(6,9,22)); lvl=5; h,r-ind=1,1
      [3,3]((5,7,17),(10,15,37),(4,6,15)); lvl=5; h,r-ind=1,1
  [3,3]((4,6,15),(5,7,17),(3,4,10)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,5),(7,11,28),(12,19,48),(3,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((12,19,48),(8,13,33),(7,11,28)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,13),(8,13,33),(7,11,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(3,5,13),(8,13,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(12,19,48),(8,13,33)); lvl=4; h,r-ind=1,1
[4,3]((6,7,19),(7,9,23),(3,5,13),(2,3,8)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,18),(3,5,13),(9,13,34)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,3,8),(17,24,63),(3,5,13),(9,13,34)); lvl=3; h,r-ind=1,1
    [3,3]((17,24,63),(11,16,42),(9,13,34)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,13),(11,16,42),(9,13,34)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,8),(3,5,13),(11,16,42)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,8),(17,24,63),(11,16,42)); lvl=4; h,r-ind=1,1
  [5,3]((6,7,19),(6,8,21),(9,11,29),(2,3,8),(17,24,63)); lvl=3; h,r-ind=1,1
    [4,3]((8,11,29),(19,25,66),(21,28,74),(6,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((27,36,95),(19,25,66),(21,28,74)); lvl=5; h,r-ind=1,1
      [3,3]((8,11,29),(27,36,95),(21,28,74)); lvl=5; h,r-ind=1,1
      [3,3]((6,8,21),(27,36,95),(19,25,66)); lvl=5; h,r-ind=1,1
      [3,3]((8,11,29),(6,8,21),(27,36,95)); lvl=5; h,r-ind=1,1
    [3,3]((17,24,63),(8,11,29),(6,8,21)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,8),(17,24,63),(8,11,29)); lvl=4; h,r-ind=1,1
    [4,3]((9,11,29),(11,14,37),(19,25,66),(6,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((17,22,58),(11,14,37),(19,25,66)); lvl=5; h,r-ind=1,1
      [3,3]((6,8,21),(17,22,58),(19,25,66)); lvl=5; h,r-ind=1,1
      [3,3]((9,11,29),(17,22,58),(11,14,37)); lvl=5; h,r-ind=1,1
      [3,3]((6,8,21),(9,11,29),(17,22,58)); lvl=5; h,r-ind=1,1
    [5,3]((5,6,16),(11,14,37),(19,25,66),(15,20,53),(21,28,74)); lvl=4; h,r-ind=1,1
      [3,3]((13,17,45),(21,28,74),(19,25,66)); lvl=5; h,r-ind=1,1
      [3,3]((13,17,45),(11,14,37),(19,25,66)); lvl=5; h,r-ind=1,1
      [3,3]((5,6,16),(13,17,45),(11,14,37)); lvl=5; h,r-ind=1,1
      [3,3]((13,17,45),(15,20,53),(21,28,74)); lvl=5; h,r-ind=1,1
      [3,3]((5,6,16),(13,17,45),(15,20,53)); lvl=5; h,r-ind=1,1
    [4,3]((2,3,8),(8,11,29),(15,20,53),(21,28,74)); lvl=4; h,r-ind=1,1
      [3,3]((23,31,82),(21,28,74),(15,20,53)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,8),(23,31,82),(15,20,53)); lvl=5; h,r-ind=1,1
      [3,3]((8,11,29),(23,31,82),(21,28,74)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,8),(8,11,29),(23,31,82)); lvl=5; h,r-ind=1,1
    [4,3]((6,7,19),(2,3,8),(5,6,16),(15,20,53)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((7,9,24),(2,3,8),(15,20,53)); lvl=5; h,r-ind=1,1
      [3,3]((7,9,24),(5,6,16),(15,20,53)); lvl=5; h,r-ind=1,1
      [3,3]((6,7,19),(7,9,24),(5,6,16)); lvl=5; h,r-ind=1,1
      [3,3]((6,7,19),(7,9,24),(2,3,8)); lvl=5; h,r-ind=1,1
    [3,3]((9,11,29),(5,6,16),(11,14,37)); lvl=4; h,r-ind=1,1
  [5,3]((4,5,13),(6,8,21),(17,24,63),(5,7,18),(9,13,34)); lvl=3; h,r-ind=1,1
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      [4,3]((13,18,47),(15,21,55),(7,10,26),(9,13,34)); lvl=4; h,r-ind=1,1
        [3,3]((15,21,55),(9,13,34),(22,31,81)); lvl=5; h,r-ind=1,1
        [3,3]((7,10,26),(9,13,34),(22,31,81)); lvl=5; h,r-ind=1,1
        [3,3]((13,18,47),(7,10,26),(22,31,81)); lvl=5; h,r-ind=1,1
        [3,3]((13,18,47),(15,21,55),(22,31,81)); lvl=5; h,r-ind=1,1
      [3,3]((17,24,63),(15,21,55),(9,13,34)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,21),(17,24,63),(15,21,55)); lvl=4; h,r-ind=1,1
      [5,3]((4,5,13),(5,7,18),(23,31,81),(13,18,47),(7,10,26)); lvl=4; h,r-ind=1,1
        [4,3]((28,38,99),(24,33,86),(17,23,60),(13,18,47)); lvl=5; h,r-ind=1,1
          [3,3]((24,33,86),(13,18,47),(41,56,146)); lvl=6; h,r-ind=1,1
          [3,3]((17,23,60),(13,18,47),(41,56,146)); lvl=6; h,r-ind=1,1
          [3,3]((28,38,99),(17,23,60),(41,56,146)); lvl=6; h,r-ind=1,1
          [3,3]((28,38,99),(24,33,86),(41,56,146)); lvl=6; h,r-ind=1,1
        [3,3]((23,31,81),(17,23,60),(13,18,47)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,13),(23,31,81),(17,23,60)); lvl=5; h,r-ind=1,1
        [3,3]((7,10,26),(24,33,86),(13,18,47)); lvl=5; h,r-ind=1,1
        [4,3]((11,15,39),(28,38,99),(7,10,26),(24,33,86)); lvl=5; h,r-ind=1,1
          [3,3]((28,38,99),(24,33,86),(35,48,125)); lvl=6; h,r-ind=1,1
          [3,3]((7,10,26),(24,33,86),(35,48,125)); lvl=6; h,r-ind=1,1
          [3,3]((11,15,39),(28,38,99),(35,48,125)); lvl=6; h,r-ind=1,1
          [3,3]((7,10,26),(11,15,39),(35,48,125)); lvl=6; h,r-ind=1,1
        [3,3]((11,15,39),(5,7,18),(7,10,26)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,13),(11,15,39),(5,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,13),(11,15,39),(28,38,99)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,13),(28,38,99),(17,23,60)); lvl=5; h,r-ind=1,1
      [4,3]((6,8,21),(23,31,81),(13,18,47),(15,21,55)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((19,26,68),(23,31,81),(13,18,47)); lvl=5; h,r-ind=1,1
        [3,3]((15,21,55),(19,26,68),(13,18,47)); lvl=5; h,r-ind=1,1
        [3,3]((6,8,21),(15,21,55),(19,26,68)); lvl=5; h,r-ind=1,1
        [3,3]((6,8,21),(19,26,68),(23,31,81)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,13),(6,8,21),(23,31,81)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,13),(7,9,23),(5,7,18)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,13),(6,8,21),(9,11,29)); lvl=3; h,r-ind=1,1
  [3,3]((6,7,19),(3,4,11),(2,3,8)); lvl=2; h,r-ind=1,1
[5,3]((3,7,18),(3,7,19),(5,12,31),(4,9,25),(11,24,66)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,18),(5,12,31),(6,14,37)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,19),(5,12,31),(6,14,37)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,19),(4,9,25),(18,41,112)); lvl=2; h,r-ind=1,1
  [4,3]((15,34,92),(9,20,54),(3,7,18),(6,14,37)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((7,16,43),(6,14,37),(3,7,18),(4,9,24)); lvl=3; h,r-ind=1,1
      [3,3]((10,23,61),(6,14,37),(3,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,24),(10,23,61),(3,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((7,16,43),(4,9,24),(10,23,61)); lvl=4; h,r-ind=1,1
      [3,3]((7,16,43),(10,23,61),(6,14,37)); lvl=4; h,r-ind=1,1
    [3,3]((7,16,43),(12,27,73),(4,9,24)); lvl=3; h,r-ind=1,1
    [3,3]((9,20,54),(12,27,73),(4,9,24)); lvl=3; h,r-ind=1,1
    [3,3]((15,34,92),(7,16,43),(12,27,73)); lvl=3; h,r-ind=1,1
  [4,3]((3,7,19),(18,41,112),(15,34,92),(6,14,37)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [3,3]((7,16,43),(11,25,68),(15,34,92)); lvl=3; h,r-ind=1,1
    [3,3]((7,16,43),(24,55,149),(11,25,68)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [4,3]((3,7,19),(24,55,149),(18,41,112),(11,25,68)); lvl=3; h,r-ind=1,3
      [3,3]((11,25,68),(24,55,149),(14,32,87)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,19),(24,55,149),(14,32,87)); lvl=4; h,r-ind=1,1
      [3,3]((18,41,112),(11,25,68),(14,32,87)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,19),(18,41,112),(14,32,87)); lvl=4; h,r-ind=1,1
    [4,3]((3,7,19),(7,16,43),(6,14,37),(24,55,149)); lvl=3; h,r-ind=1,3
      [3,3]((10,23,62),(6,14,37),(7,16,43)); lvl=4; h,r-ind=1,1
      [3,3]((24,55,149),(10,23,62),(7,16,43)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,19),(24,55,149),(10,23,62)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,19),(10,23,62),(6,14,37)); lvl=4; h,r-ind=1,1
  [5,3]((4,9,25),(18,41,112),(15,34,92),(9,20,54),(5,11,30)); lvl=2; h,r-ind=1,1
    [3,3]((11,25,68),(23,52,142),(8,18,49)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,25),(23,52,142),(8,18,49)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,25),(5,11,30),(8,18,49)); lvl=3; h,r-ind=1,1
    [4,3]((15,34,92),(12,27,73),(11,25,68),(8,18,49)); lvl=3; h,r-ind=1,1
      [3,3]((12,27,73),(8,18,49),(23,52,141)); lvl=4; h,r-ind=1,1
      [3,3]((11,25,68),(8,18,49),(23,52,141)); lvl=4; h,r-ind=1,1
      [3,3]((15,34,92),(12,27,73),(23,52,141)); lvl=4; h,r-ind=1,1
      [3,3]((11,25,68),(15,34,92),(23,52,141)); lvl=4; h,r-ind=1,1
    [3,3]((12,27,73),(9,20,54),(8,18,49)); lvl=3; h,r-ind=1,1
    [3,3]((5,11,30),(9,20,54),(8,18,49)); lvl=3; h,r-ind=1,1
    [4,3]((4,9,25),(18,41,112),(11,25,68),(23,52,142)); lvl=3; h,r-ind=1,1
      [3,3]((15,34,93),(18,41,112),(11,25,68)); lvl=4; h,r-ind=1,1
      [3,3]((23,52,142),(15,34,93),(11,25,68)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,25),(23,52,142),(15,34,93)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,25),(15,34,93),(18,41,112)); lvl=4; h,r-ind=1,1
  [3,3]((4,9,25),(11,24,66),(5,11,30)); lvl=2; h,r-ind=1,1
[4,3]((3,7,20),(3,4,11),(4,9,25),(11,24,66)); lvl=1; h,r-ind=1,1
  [4,3]((4,9,25),(11,24,66),(2,4,11),(13,28,78)); lvl=2; h,r-ind=1,4; alert-r-inc
    [3,3]((11,24,66),(6,13,36),(2,4,11)); lvl=3; h,r-ind=1,1
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      [3,3]((13,28,78),(6,13,36),(2,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,25),(13,28,78),(6,13,36)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,25),(11,24,66),(6,13,36)); lvl=3; h,r-ind=1,1
    [3,3]((7,15,42),(2,4,11),(13,28,78)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,20),(4,9,25),(7,15,42),(13,28,78)); lvl=2; h,r-ind=1,1
      [3,3]((11,24,67),(4,9,25),(13,28,78)); lvl=3; h,r-ind=1,1
      [3,3]((11,24,67),(7,15,42),(13,28,78)); lvl=3; h,r-ind=1,1
      [4,3]((5,11,31),(20,44,123),(11,24,67),(7,15,42)); lvl=3; h,r-ind=1,1
        [3,3]((20,44,123),(16,35,98),(11,24,67)); lvl=4; h,r-ind=1,1
        [3,3]((7,15,42),(16,35,98),(11,24,67)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,31),(7,15,42),(16,35,98)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,31),(20,44,123),(16,35,98)); lvl=4; h,r-ind=1,1
      [3,3]((20,44,123),(11,24,67),(4,9,25)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,20),(5,11,31),(20,44,123),(4,9,25)); lvl=3; h,r-ind=1,1
        [3,3]((9,20,56),(20,44,123),(5,11,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,20),(9,20,56),(5,11,31)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,25),(3,7,20),(9,20,56)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,25),(9,20,56),(20,44,123)); lvl=4; h,r-ind=1,1
    [3,3]((5,10,28),(7,15,42),(2,4,11)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,11),(5,10,28),(6,11,31),(2,4,11)); lvl=2; h,r-ind=1,1
      [4,3]((3,5,14),(10,19,53),(5,10,28),(6,11,31)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,15,42),(5,10,28),(10,19,53)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,14),(8,15,42),(10,19,53)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,31),(8,15,42),(5,10,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,14),(6,11,31),(8,15,42)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,11),(10,19,53),(5,10,28)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,14),(2,4,11),(10,19,53)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,11),(3,5,14),(2,4,11)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,20),(5,10,28),(6,11,31),(7,15,42)); lvl=2; h,r-ind=1,1
      [4,3]((3,6,17),(18,37,104),(6,11,31),(5,10,28)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((8,16,45),(5,10,28),(18,37,104)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,17),(8,16,45),(18,37,104)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,31),(8,16,45),(5,10,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,17),(6,11,31),(8,16,45)); lvl=4; h,r-ind=1,1
      [4,3]((7,15,42),(10,21,59),(18,37,104),(5,10,28)); lvl=3; h,r-ind=1,1
        [3,3]((15,31,87),(18,37,104),(10,21,59)); lvl=4; h,r-ind=1,1
        [3,3]((7,15,42),(15,31,87),(10,21,59)); lvl=4; h,r-ind=1,1
        [3,3]((15,31,87),(5,10,28),(18,37,104)); lvl=4; h,r-ind=1,1
        [3,3]((7,15,42),(15,31,87),(5,10,28)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,31),(7,15,42),(10,21,59)); lvl=3; h,r-ind=1,1
      [4,3]((3,6,17),(5,11,31),(10,21,59),(18,37,104)); lvl=3; h,r-ind=1,1
        [3,3]((5,11,31),(13,27,76),(10,21,59)); lvl=4; h,r-ind=1,1
        [3,3]((18,37,104),(13,27,76),(10,21,59)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,17),(5,11,31),(13,27,76)); lvl=4; h,r-ind=1,1
        [3,3]((18,37,104),(3,6,17),(13,27,76)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,20),(3,6,17),(5,11,31)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(3,7,20),(3,4,11)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,7,20),(3,7,19),(4,9,25)); lvl=1; h,r-ind=1,1
  [4,3]((3,7,20),(3,8,19),(3,7,19),(5,12,31)); lvl=1; h,r-ind=1,1
    [4,3]((3,7,19),(7,17,44),(12,29,76),(5,12,31)); lvl=2; h,r-ind=1,1
      [3,3]((12,29,76),(10,24,63),(7,17,44)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,31),(10,24,63),(7,17,44)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,19),(12,29,76),(10,24,63)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,31),(3,7,19),(10,24,63)); lvl=3; h,r-ind=1,1
    [3,3]((4,10,25),(7,17,44),(5,12,31)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,13),(4,10,25),(7,17,44),(12,29,76)); lvl=2; h,r-ind=1,1
      [3,3]((4,10,25),(9,22,57),(7,17,44)); lvl=3; h,r-ind=1,1
      [3,3]((12,29,76),(9,22,57),(7,17,44)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,13),(12,29,76),(9,22,57)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,13),(4,10,25),(9,22,57)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,19),(3,7,20),(2,5,13),(12,29,76)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,5,13),(5,12,32),(3,7,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,19),(5,12,32),(3,7,20)); lvl=3; h,r-ind=1,1
      [3,3]((12,29,76),(2,5,13),(5,12,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,19),(12,29,76),(5,12,32)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,13),(3,8,19),(4,10,25)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,6),(1,3,5),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,6),(3,8,19),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,20),(3,8,19),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
```

20.31 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,8,20)); lvl=0; h,r-ind=20,100
  [3,3]((1,2,4),(1,2,5),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,3),(1,2,4),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(1,2,3),(2,6,7),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,3),(1,2,3),(2,6,7)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((0,1,0),(1,3,3),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,1,1),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,3),(1,3,4),(2,6,7),(1,2,4),(2,5,9)); lvl=1; h,r-ind=1,1
    [4,3]((3,8,11),(4,10,15),(1,3,4),(2,5,8)); lvl=2; h,r-ind=1,1
      [3,3]((4,10,15),(2,5,8),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,8),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,11),(1,3,4),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,11),(4,10,15),(5,13,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(1,3,4),(2,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,9),(2,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(4,10,15),(3,7,11),(2,5,8)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,11),(4,10,15),(5,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(4,10,15),(5,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,8),(5,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,11),(5,12,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(3,7,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(3,8,11),(4,10,15),(3,7,11)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,7),(9,22,33),(3,8,11),(4,10,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,15,22),(9,22,33),(4,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,11),(6,15,22),(4,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,7),(3,8,11),(6,15,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,7),(6,15,22),(9,22,33)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,11),(9,22,33),(4,10,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(2,5,7),(3,7,11),(9,22,33)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,18),(9,22,33),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(5,12,18),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,18),(3,7,11),(9,22,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(5,12,18),(3,7,11)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,11),(2,6,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,8,11),(2,6,7)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,3,4),(2,6,7)); lvl=1; h,r-ind=1,1
  [5,3]((2,5,12),(5,13,30),(1,2,4),(2,5,11),(1,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((4,10,23),(2,5,11),(5,13,30)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,12),(4,10,23),(5,13,30)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,12),(5,12,28),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((5,12,27),(7,17,39),(4,10,23),(2,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((7,17,39),(4,10,23),(9,22,50)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(4,10,23),(9,22,50)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,27),(2,5,11),(9,22,50)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,27),(7,17,39),(9,22,50)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,12),(5,12,28),(7,17,39),(4,10,23)); lvl=2; h,r-ind=1,1
      [3,3]((9,22,51),(7,17,39),(5,12,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(9,22,51),(5,12,28)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,23),(9,22,51),(7,17,39)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(4,10,23),(9,22,51)); lvl=3; h,r-ind=1,1
    [3,3]((5,12,27),(2,5,11),(1,2,4)); lvl=2; h,r-ind=1,1
    [5,3]((5,12,27),(5,12,28),(7,17,39),(1,2,5),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,16),(1,2,4),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,28),(3,7,16),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,28),(3,7,16),(7,17,39)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,16),(5,12,27),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,16),(5,12,27),(7,17,39)); lvl=3; h,r-ind=1,1
  [3,3]((3,8,20),(2,5,12),(1,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((3,8,20),(15,41,95),(2,5,12),(5,13,30)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,19),(5,13,30),(13,35,81)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,8,19),(7,19,44),(13,35,81)); lvl=2; h,r-ind=1,1
    [4,3]((18,49,115),(3,8,19),(15,41,95),(7,19,44)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,19),(7,19,44),(21,57,133)); lvl=3; h,r-ind=1,1
      [4,3]((11,30,70),(15,41,95),(7,19,44),(21,57,133)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,19,44),(18,49,114),(15,41,95)); lvl=4; h,r-ind=1,1
        [3,3]((11,30,70),(18,49,114),(15,41,95)); lvl=4; h,r-ind=1,1
        [3,3]((21,57,133),(11,30,70),(18,49,114)); lvl=4; h,r-ind=1,1
        [3,3]((21,57,133),(7,19,44),(18,49,114)); lvl=4; h,r-ind=1,1
      [3,3]((11,30,70),(3,8,19),(21,57,133)); lvl=3; h,r-ind=1,1
      [3,3]((11,30,70),(18,49,115),(3,8,19)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,20),(18,49,115),(3,8,19)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,5,12),(3,8,19),(5,13,30)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,20),(2,5,12),(3,8,19)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,4),(2,5,9),(2,5,11)); lvl=1; h,r-ind=2,2; optimized-h
  [6,3]((0,1,0),(1,3,4),(15,41,95),(5,13,30),(2,5,9),(2,5,11)); lvl=1; h,r-ind=1,1
    [5,3]((4,11,24),(2,6,11),(3,8,16),(3,8,17),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((7,19,39),(3,8,17),(3,8,16)); lvl=3; h,r-ind=1,1
      [4,3]((5,14,28),(8,22,45),(7,19,39),(3,8,16)); lvl=3; h,r-ind=1,1
        [3,3]((8,22,45),(7,19,39),(19,52,106)); lvl=4; h,r-ind=1,1
        [4,3]((4,11,22),(3,8,16),(7,19,39),(19,52,106)); lvl=4; h,r-ind=1,2; alert-r-inc
```

```
      [3,3]((3,8,16),(11,30,61),(7,19,39)); lvl=5; h,r-ind=1,1
      [3,3]((19,52,106),(11,30,61),(7,19,39)); lvl=5; h,r-ind=1,1
      [3,3]((4,11,22),(3,8,16),(11,30,61)); lvl=5; h,r-ind=1,1
      [3,3]((19,52,106),(4,11,22),(11,30,61)); lvl=5; h,r-ind=1,1
    [4,3]((5,14,28),(4,11,22),(8,22,45),(19,52,106)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((12,33,67),(4,11,22),(19,52,106)); lvl=5; h,r-ind=1,1
      [3,3]((8,22,45),(12,33,67),(19,52,106)); lvl=5; h,r-ind=1,1
      [3,3]((5,14,28),(12,33,67),(4,11,22)); lvl=5; h,r-ind=1,1
      [3,3]((8,22,45),(5,14,28),(12,33,67)); lvl=5; h,r-ind=1,1
  [3,3]((2,6,11),(5,14,28),(3,8,16)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,6,11),(5,14,28),(1,3,6)); lvl=3; h,r-ind=1,1
  [4,3]((8,22,45),(7,19,39),(4,11,23),(3,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,17),(7,19,39),(11,30,62)); lvl=4; h,r-ind=1,1
    [3,3]((8,22,45),(7,19,39),(11,30,62)); lvl=4; h,r-ind=1,1
    [3,3]((4,11,23),(8,22,45),(11,30,62)); lvl=4; h,r-ind=1,1
    [3,3]((4,11,23),(3,8,17),(11,30,62)); lvl=4; h,r-ind=1,1
  [3,3]((4,11,23),(4,11,24),(3,8,17)); lvl=3; h,r-ind=1,1
  [3,3]((4,11,23),(1,3,6),(4,11,24)); lvl=3; h,r-ind=1,1
  [4,3]((5,14,28),(8,22,45),(4,11,23),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((9,25,51),(4,11,23),(8,22,45)); lvl=4; h,r-ind=1,1
    [3,3]((5,14,28),(9,25,51),(8,22,45)); lvl=4; h,r-ind=1,1
    [3,3]((9,25,51),(1,3,6),(4,11,23)); lvl=4; h,r-ind=1,1
    [3,3]((5,14,28),(9,25,51),(1,3,6)); lvl=4; h,r-ind=1,1
[4,3]((8,22,49),(5,14,31),(4,11,24),(1,3,6)); lvl=2; h,r-ind=1,1
  [3,3]((5,14,31),(9,25,55),(1,3,6)); lvl=3; h,r-ind=1,1
  [3,3]((4,11,24),(9,25,55),(1,3,6)); lvl=3; h,r-ind=1,1
  [3,3]((8,22,49),(5,14,31),(9,25,55)); lvl=3; h,r-ind=1,1
  [3,3]((4,11,24),(8,22,49),(9,25,55)); lvl=3; h,r-ind=1,1
[4,3]((0,1,0),(15,42,95),(5,14,31),(1,3,6)); lvl=2; h,r-ind=1,1
  [5,3]((6,17,38),(7,20,44),(12,34,75),(20,57,125),(10,28,63)); lvl=3; h,r-ind=1,1
    [3,3]((19,54,119),(20,57,125),(7,20,44)); lvl=4; h,r-ind=1,1
    [4,3]((18,51,113),(31,88,195),(19,54,119),(7,20,44)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((25,71,157),(31,88,195),(7,20,44)); lvl=5; h,r-ind=1,1
      [3,3]((19,54,119),(25,71,157),(7,20,44)); lvl=5; h,r-ind=1,1
      [3,3]((18,51,113),(19,54,119),(25,71,157)); lvl=5; h,r-ind=1,1
      [3,3]((18,51,113),(25,71,157),(31,88,195)); lvl=5; h,r-ind=1,1
    [3,3]((6,17,38),(31,88,195),(7,20,44)); lvl=4; h,r-ind=1,1
    [5,3]((6,17,38),(18,51,113),(31,88,195),(11,31,69),(10,28,63)); lvl=4; h,r-ind=1,1
      [3,3]((24,68,151),(6,17,38),(41,116,258)); lvl=5; h,r-ind=1,1
      [3,3]((17,48,107),(6,17,38),(41,116,258)); lvl=5; h,r-ind=1,1
      [3,3]((10,28,63),(17,48,107),(6,17,38)); lvl=5; h,r-ind=1,1
      [3,3]((11,31,69),(10,28,63),(17,48,107)); lvl=5; h,r-ind=1,1
      [4,3]((18,51,113),(24,68,151),(35,99,220),(41,116,258)); lvl=5; h,r-ind=1,1
        [3,3]((24,68,151),(41,116,258),(59,167,371)); lvl=6; h,r-ind=1,1
        [3,3]((35,99,220),(41,116,258),(59,167,371)); lvl=6; h,r-ind=1,1
        [3,3]((18,51,113),(35,99,220),(59,167,371)); lvl=6; h,r-ind=1,1
        [3,3]((18,51,113),(24,68,151),(59,167,371)); lvl=6; h,r-ind=1,1
      [4,3]((11,31,69),(17,48,107),(35,99,220),(41,116,258)); lvl=5; h,r-ind=1,1
        [3,3]((41,116,258),(17,48,107),(52,147,327)); lvl=6; h,r-ind=1,1
        [3,3]((11,31,69),(17,48,107),(52,147,327)); lvl=6; h,r-ind=1,1
        [3,3]((35,99,220),(11,31,69),(52,147,327)); lvl=6; h,r-ind=1,1
        [3,3]((35,99,220),(41,116,258),(52,147,327)); lvl=6; h,r-ind=1,1
      [3,3]((18,51,113),(11,31,69),(35,99,220)); lvl=5; h,r-ind=1,1
      [3,3]((24,68,151),(31,88,195),(6,17,38)); lvl=5; h,r-ind=1,1
      [3,3]((18,51,113),(24,68,151),(31,88,195)); lvl=5; h,r-ind=1,1
    [3,3]((19,54,119),(20,57,125),(12,34,75)); lvl=4; h,r-ind=1,1
    [4,3]((18,51,113),(19,54,119),(11,31,69),(12,34,75)); lvl=4; h,r-ind=1,1
      [3,3]((19,54,119),(12,34,75),(30,85,188)); lvl=5; h,r-ind=1,1
      [3,3]((11,31,69),(12,34,75),(30,85,188)); lvl=5; h,r-ind=1,1
      [3,3]((18,51,113),(19,54,119),(30,85,188)); lvl=5; h,r-ind=1,1
      [3,3]((11,31,69),(18,51,113),(30,85,188)); lvl=5; h,r-ind=1,1
  [3,3]((6,17,38),(15,42,95),(10,28,63)); lvl=3; h,r-ind=1,1
  [3,3]((6,17,38),(9,26,57),(7,20,44)); lvl=3; h,r-ind=1,1
  [3,3]((5,14,31),(12,34,75),(10,28,63)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,3,6),(5,14,31),(12,34,75),(20,57,125)); lvl=3; h,r-ind=1,1
    [3,3]((5,14,31),(13,37,81),(12,34,75)); lvl=4; h,r-ind=1,1
    [3,3]((20,57,125),(13,37,81),(12,34,75)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(20,57,125),(13,37,81)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(5,14,31),(13,37,81)); lvl=4; h,r-ind=1,1
  [5,3]((0,1,0),(9,26,57),(7,20,44),(1,3,6),(20,57,125)); lvl=3; h,r-ind=1,1
    [3,3]((7,20,44),(8,23,50),(20,57,125)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(8,23,50),(20,57,125)); lvl=4; h,r-ind=1,1
    [4,3]((7,20,44),(19,55,119),(8,23,50),(18,52,113)); lvl=4; h,r-ind=1,1
      [3,3]((8,23,50),(19,55,119),(26,75,163)); lvl=5; h,r-ind=1,1
      [3,3]((18,52,113),(19,55,119),(26,75,163)); lvl=5; h,r-ind=1,1
      [3,3]((7,20,44),(8,23,50),(26,75,163)); lvl=5; h,r-ind=1,1
      [3,3]((18,52,113),(7,20,44),(26,75,163)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,6),(19,55,119),(12,35,75),(8,23,50)); lvl=4; h,r-ind=1,1
      [3,3]((12,35,75),(19,55,119),(20,58,125)); lvl=5; h,r-ind=1,1
      [3,3]((8,23,50),(19,55,119),(20,58,125)); lvl=5; h,r-ind=1,1
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      [3,3]((1,3,6),(8,23,50),(20,58,125)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,6),(12,35,75),(20,58,125)); lvl=5; h,r-ind=1,1
    [4,3]((0,1,0),(3,9,19),(1,3,6),(12,35,75)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((4,12,25),(3,9,19),(12,35,75)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,6),(4,12,25),(12,35,75)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(4,12,25),(3,9,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,6),(0,1,0),(4,12,25)); lvl=5; h,r-ind=1,1
    [4,3]((9,26,57),(7,20,44),(18,52,113),(10,29,63)); lvl=4; h,r-ind=1,1
      [3,3]((17,49,107),(18,52,113),(7,20,44)); lvl=5; h,r-ind=1,1
      [3,3]((9,26,57),(17,49,107),(7,20,44)); lvl=5; h,r-ind=1,1
      [3,3]((17,49,107),(10,29,63),(18,52,113)); lvl=5; h,r-ind=1,1
      [3,3]((9,26,57),(17,49,107),(10,29,63)); lvl=5; h,r-ind=1,1
    [5,3]((3,9,19),(19,55,119),(12,35,75),(18,52,113),(10,29,63)); lvl=4; h,r-ind=1,1
      [3,3]((11,32,69),(12,35,75),(3,9,19)); lvl=5; h,r-ind=1,1
      [3,3]((11,32,69),(10,29,63),(3,9,19)); lvl=5; h,r-ind=1,1
      [3,3]((18,52,113),(11,32,69),(10,29,63)); lvl=5; h,r-ind=1,1
      [3,3]((19,55,119),(11,32,69),(12,35,75)); lvl=5; h,r-ind=1,1
      [3,3]((19,55,119),(18,52,113),(11,32,69)); lvl=5; h,r-ind=1,1
    [3,3]((9,26,57),(3,9,19),(10,29,63)); lvl=4; h,r-ind=1,1
[5,3]((13,35,81),(7,19,44),(8,22,49),(7,19,43),(5,14,31)); lvl=2; h,r-ind=1,1
  [4,3]((13,35,81),(10,27,62),(4,11,25),(7,19,44)); lvl=3; h,r-ind=1,1
    [3,3]((10,27,62),(4,11,25),(17,46,106)); lvl=4; h,r-ind=1,1
    [3,3]((7,19,44),(4,11,25),(17,46,106)); lvl=4; h,r-ind=1,1
    [3,3]((13,35,81),(10,27,62),(17,46,106)); lvl=4; h,r-ind=1,1
    [3,3]((7,19,44),(13,35,81),(17,46,106)); lvl=4; h,r-ind=1,1
  [4,3]((10,27,62),(7,19,43),(19,52,117),(4,11,25)); lvl=3; h,r-ind=1,1
    [3,3]((11,30,68),(19,52,117),(7,19,43)); lvl=4; h,r-ind=1,1
    [3,3]((10,27,62),(11,30,68),(7,19,43)); lvl=4; h,r-ind=1,1
    [3,3]((4,11,25),(10,27,62),(11,30,68)); lvl=4; h,r-ind=1,1
    [3,3]((4,11,25),(11,30,68),(19,52,117)); lvl=4; h,r-ind=1,1
  [4,3]((19,52,117),(8,22,49),(5,14,31),(4,11,25)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((8,22,49),(5,14,31),(12,33,74)); lvl=4; h,r-ind=1,1
    [3,3]((4,11,25),(5,14,31),(12,33,74)); lvl=4; h,r-ind=1,1
    [3,3]((19,52,117),(8,22,49),(12,33,74)); lvl=4; h,r-ind=1,1
    [3,3]((4,11,25),(19,52,117),(12,33,74)); lvl=4; h,r-ind=1,1
  [3,3]((7,19,43),(19,52,117),(8,22,49)); lvl=3; h,r-ind=1,1
[4,3]((15,41,95),(15,42,95),(7,19,44),(5,14,31)); lvl=2; h,r-ind=1,1
  [3,3]((10,28,63),(4,11,25),(5,14,31)); lvl=3; h,r-ind=1,1
  [3,3]((9,25,57),(10,28,63),(4,11,25)); lvl=3; h,r-ind=1,1
  [3,3]((9,25,57),(21,58,133),(4,11,25)); lvl=3; h,r-ind=1,1
  [4,3]((15,41,95),(7,19,44),(21,58,133),(4,11,25)); lvl=3; h,r-ind=1,1
    [3,3]((23,63,145),(4,11,25),(7,19,44)); lvl=4; h,r-ind=1,1
    [4,3]((15,41,95),(12,33,76),(23,63,145),(7,19,44)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((23,63,145),(12,33,76),(19,52,120)); lvl=5; h,r-ind=1,1
      [3,3]((15,41,95),(12,33,76),(19,52,120)); lvl=5; h,r-ind=1,1
      [3,3]((7,19,44),(15,41,95),(19,52,120)); lvl=5; h,r-ind=1,1
      [3,3]((7,19,44),(23,63,145),(19,52,120)); lvl=5; h,r-ind=1,1
    [3,3]((12,33,76),(23,63,145),(4,11,25)); lvl=4; h,r-ind=1,1
    [3,3]((12,33,76),(21,58,133),(4,11,25)); lvl=4; h,r-ind=1,1
  [3,3]((9,25,57),(15,42,95),(10,28,63)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(2,6,11),(1,3,6)); lvl=2; h,r-ind=1,1
[4,3]((2,5,11),(2,5,10),(3,8,16),(3,8,17)); lvl=2; h,r-ind=1,1
  [3,3]((5,13,27),(3,8,16),(2,5,10)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,11),(5,13,27),(2,5,10)); lvl=3; h,r-ind=1,1
  [3,3]((3,8,17),(5,13,27),(3,8,16)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,11),(3,8,17),(5,13,27)); lvl=3; h,r-ind=1,1
[5,3]((1,3,5),(2,5,9),(2,6,11),(2,5,10),(3,8,16)); lvl=2; h,r-ind=1,1
  [5,3]((5,14,26),(7,19,36),(2,6,11),(3,8,16),(6,16,31)); lvl=3; h,r-ind=1,1
    [3,3]((5,14,26),(4,11,21),(7,19,36)); lvl=4; h,r-ind=1,1
    [3,3]((6,16,31),(4,11,21),(7,19,36)); lvl=4; h,r-ind=1,1
    [3,3]((6,16,31),(3,8,16),(4,11,21)); lvl=4; h,r-ind=1,1
    [3,3]((5,14,26),(2,6,11),(4,11,21)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,16),(2,6,11),(4,11,21)); lvl=4; h,r-ind=1,1
  [3,3]((2,5,10),(3,8,16),(6,16,31)); lvl=3; h,r-ind=1,1
  [4,3]((3,8,15),(7,19,36),(2,5,10),(6,16,31)); lvl=3; h,r-ind=1,1
    [3,3]((7,19,36),(6,16,31),(9,24,46)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,10),(6,16,31),(9,24,46)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,15),(2,5,10),(9,24,46)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,15),(7,19,36),(9,24,46)); lvl=4; h,r-ind=1,1
  [3,3]((2,5,9),(3,8,15),(2,5,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,5),(5,14,26),(2,6,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,5),(3,8,15),(5,14,26),(7,19,36)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,15),(7,19,36),(8,22,41)); lvl=4; h,r-ind=1,1
    [3,3]((5,14,26),(7,19,36),(8,22,41)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(3,8,15),(8,22,41)); lvl=4; h,r-ind=1,1
    [3,3]((5,14,26),(1,3,5),(8,22,41)); lvl=4; h,r-ind=1,1
  [3,3]((2,5,9),(1,3,5),(3,8,15)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,3,5),(2,6,11)); lvl=2; h,r-ind=1,1
[3,3]((1,3,4),(0,1,0),(1,3,5)); lvl=2; h,r-ind=1,1
[3,3]((1,3,4),(1,3,5),(2,5,9)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((4,11,24),(3,8,18),(2,5,11),(3,8,17)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,18),(2,5,11),(6,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,17),(2,5,11),(6,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,24),(3,8,18),(6,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,17),(4,11,24),(6,16,35)); lvl=3; h,r-ind=1,1
    [4,3]((8,22,49),(7,19,43),(4,11,24),(3,8,18)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,18),(7,19,43),(11,30,67)); lvl=3; h,r-ind=1,1
      [3,3]((8,22,49),(7,19,43),(11,30,67)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,24),(8,22,49),(11,30,67)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,24),(3,8,18),(11,30,67)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,18),(2,5,11),(5,13,30)); lvl=2; h,r-ind=1,1
    [4,3]((13,35,81),(7,19,43),(3,8,18),(5,13,30)); lvl=2; h,r-ind=1,1
      [4,3]((3,8,18),(7,19,43),(13,35,80),(22,59,135)); lvl=3; h,r-ind=1,1
        [3,3]((13,35,80),(7,19,43),(16,43,98)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,18),(7,19,43),(16,43,98)); lvl=4; h,r-ind=1,1
        [3,3]((22,59,135),(3,8,18),(16,43,98)); lvl=4; h,r-ind=1,1
        [3,3]((22,59,135),(13,35,80),(16,43,98)); lvl=4; h,r-ind=1,1
      [4,3]((6,16,37),(10,27,62),(13,35,80),(22,59,135)); lvl=3; h,r-ind=1,1
        [3,3]((19,51,117),(10,27,62),(13,35,80)); lvl=4; h,r-ind=1,1
        [3,3]((22,59,135),(19,51,117),(13,35,80)); lvl=4; h,r-ind=1,1
        [3,3]((6,16,37),(22,59,135),(19,51,117)); lvl=4; h,r-ind=1,1
        [3,3]((6,16,37),(19,51,117),(10,27,62)); lvl=4; h,r-ind=1,1
      [3,3]((6,16,37),(13,35,81),(10,27,62)); lvl=3; h,r-ind=1,1
      [4,3]((5,13,30),(6,16,37),(3,8,18),(22,59,135)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((6,16,37),(22,59,135),(9,24,55)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,18),(22,59,135),(9,24,55)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,30),(6,16,37),(9,24,55)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,18),(5,13,30),(9,24,55)); lvl=4; h,r-ind=1,1
      [3,3]((10,27,62),(7,19,43),(13,35,80)); lvl=3; h,r-ind=1,1
  [3,3]((3,8,20),(0,1,0),(15,41,95)); lvl=1; h,r-ind=15,15; optimized-h
```

20.32 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,9,20)); lvl=0; h,r-ind=20,400
  [4,3]((3,6,13),(1,2,4),(6,15,32),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,4),(3,7,15),(6,15,32)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,21),(1,2,4),(3,7,15)); lvl=2; h,r-ind=1,1
    [4,3]((3,6,13),(5,10,21),(1,1,2),(3,7,15)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,8,17),(1,1,2),(5,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,15),(4,8,17),(5,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,13),(4,8,17),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,15),(3,6,13),(4,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((5,10,21),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,6,13),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((3,6,13),(2,5,11),(4,11,24),(6,15,32)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,11),(4,11,24),(12,30,65),(7,18,39)); lvl=2; h,r-ind=1,1
      [3,3]((9,23,50),(4,11,24),(7,18,39)); lvl=3; h,r-ind=1,1
      [3,3]((12,30,65),(9,23,50),(7,18,39)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(12,30,65),(9,23,50)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(9,23,50),(4,11,24)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,15),(5,13,28),(12,30,65),(7,18,39)); lvl=2; h,r-ind=1,1
      [3,3]((10,25,54),(5,13,28),(7,18,39)); lvl=3; h,r-ind=1,1
      [3,3]((12,30,65),(10,25,54),(7,18,39)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,15),(12,30,65),(10,25,54)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,15),(10,25,54),(5,13,28)); lvl=3; h,r-ind=1,1
    [3,3]((6,15,32),(3,7,15),(5,13,28)); lvl=2; h,r-ind=1,1
    [3,3]((5,13,28),(4,11,24),(7,18,39)); lvl=2; h,r-ind=1,1
    [4,3]((3,6,13),(3,7,15),(2,5,11),(12,30,65)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,5,11),(12,30,65),(5,12,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,15),(12,30,65),(5,12,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,13),(2,5,11),(5,12,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,15),(3,6,13),(5,12,26)); lvl=3; h,r-ind=1,1
  [4,3]((2,6,13),(3,9,19),(4,11,24),(6,15,32)); lvl=1; h,r-ind=1,1
    [3,3]((5,13,28),(3,8,17),(6,15,32)); lvl=2; h,r-ind=1,1
    [4,3]((5,13,28),(7,19,41),(12,33,71),(3,8,17)); lvl=2; h,r-ind=1,1
      [3,3]((10,27,58),(12,33,71),(7,19,41)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,28),(10,27,58),(7,19,41)); lvl=3; h,r-ind=1,1
      [3,3]((10,27,58),(3,8,17),(12,33,71)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,28),(10,27,58),(3,8,17)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,13),(12,33,71),(3,9,19),(3,8,17)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((5,14,30),(12,33,71),(3,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,19),(5,14,30),(3,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,13),(3,9,19),(5,14,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,13),(5,14,30),(12,33,71)); lvl=3; h,r-ind=1,1
    [3,3]((5,13,28),(4,11,24),(7,19,41)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,13),(4,11,24),(7,19,41),(12,33,71)); lvl=2; h,r-ind=1,1
      [3,3]((9,25,54),(4,11,24),(7,19,41)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((12,33,71),(9,25,54),(7,19,41)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,13),(12,33,71),(9,25,54)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,13),(9,25,54),(4,11,24)); lvl=3; h,r-ind=1,1
  [3,3]((3,9,20),(2,6,13),(4,11,24)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,6,13),(3,9,19)); lvl=1; h,r-ind=1,1
  [3,3]((3,9,20),(0,1,0),(2,6,13)); lvl=1; h,r-ind=1,1
  [3,3]((3,9,20),(2,5,11),(4,11,24)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,6,13),(2,5,11)); lvl=1; h,r-ind=1,1
  [3,3]((3,9,20),(1,0,0),(2,5,11)); lvl=1; h,r-ind=1,1
  [5,3]((2,2,3),(1,3,4),(2,6,7),(1,2,4),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(1,2,3),(2,4,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,6,7),(1,2,3),(2,4,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,4),(2,6,7),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,2,3),(2,6,7)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,5),(1,2,2),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(4,6,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,2,3),(2,3,4),(1,1,1),(4,6,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(2,3,4),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(1,1,1),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((2,4,5),(2,3,4),(1,2,2),(4,6,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,6),(2,3,4),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,5,6),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,7),(2,4,5),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
      [4,3]((2,4,5),(2,5,6),(1,2,2),(4,10,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,8),(2,5,6),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,8),(1,2,2),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,8),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(4,10,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(2,6,7),(2,5,6),(4,10,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,7),(3,8,9),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,11),(3,8,9),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(4,10,11),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,6,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,4),(3,9,19),(1,2,4),(6,15,32)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,4),(6,15,31),(3,8,17),(6,15,32)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((4,10,21),(6,15,31),(3,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((6,15,32),(4,10,21),(3,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(6,15,32),(4,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(4,10,21),(6,15,31)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,6),(2,6,11),(1,2,4),(6,15,31)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,10),(1,2,4),(2,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,10),(2,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,10),(6,15,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(6,15,31),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,11),(1,2,4)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,6),(6,15,31),(3,8,17)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,6),(3,9,19),(3,8,17)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,4),(2,6,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,4),(3,9,19)); lvl=1; h,r-ind=7,7; optimized-h
```

20.33 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,10,20)); lvl=0; h,r-ind=20,40
  [4,3]((1,2,4),(1,0,0),(2,7,7),(1,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,7),(1,3,4),(1,3,3),(2,7,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,6,7),(1,3,4),(2,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,6,7),(2,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(2,6,7),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,7),(2,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,7),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(1,3,3),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(2,5,6)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,2,3),(2,5,7),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,2),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(2,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(1,2,3),(1,0,0),(1,2,2)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,6),(1,1,1),(1,2,3),(1,2,2)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(1,2,3),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,6),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,6),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,2),(3,4,6),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,2,3),(1,1,1),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(1,0,0),(2,2,3)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
  [6,3]((1,3,6),(1,4,4),(1,4,6),(3,11,19),(2,7,7),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,11,19),(2,7,12),(1,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,10),(1,3,5),(2,7,12),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,6),(4,13,22)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,11),(2,7,12),(1,3,6),(4,13,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,17),(2,7,12),(1,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,22),(3,10,17),(1,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,11),(4,13,22),(3,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,11),(3,10,17),(2,7,12)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,10),(2,7,11),(1,3,5),(4,13,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,11),(4,13,22),(3,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,13,22),(3,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(1,3,5),(3,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(2,7,11),(3,10,16)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,10),(1,3,4),(1,3,5),(2,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,4),(4,13,18)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,9),(2,7,8),(1,3,4),(4,13,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,13),(1,3,4),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,9),(3,10,13),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,18),(3,10,13),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,9),(4,13,18),(3,10,13)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,10),(2,7,9),(1,3,5),(4,13,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,14),(2,7,9),(4,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,14),(1,3,5),(4,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(3,10,14),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(3,10,14),(2,7,9)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,7),(1,3,4),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(3,11,19),(2,7,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(1,4,6),(2,7,10),(2,7,12)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,6),(4,15,22),(2,7,11),(2,7,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,15,22),(3,11,17),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,12),(3,11,17),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(4,15,22),(3,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,12),(1,4,6),(3,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,6),(4,15,22)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,5),(4,15,22),(2,7,10),(2,7,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,10),(3,11,16),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,22),(3,11,16),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,10),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,22),(1,4,5),(3,11,16)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,5),(1,4,4),(2,7,10),(2,7,8)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,4),(4,15,18),(2,7,8),(2,7,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,8),(3,11,13),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,18),(3,11,13),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(2,7,8),(3,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,18),(1,4,4),(3,11,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,5),(4,15,18),(2,7,10),(2,7,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,14),(2,7,10),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,18),(3,11,14),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(4,15,18),(3,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(3,11,14),(2,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,4),(4,15,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(2,7,7),(2,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,4),(1,3,6),(1,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,10,20),(1,3,6),(3,11,19)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,7,7)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,4,4),(0,1,0),(2,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,4),(1,4,6),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,4,6),(3,11,19),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,10,20),(3,11,19),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
```

20.34 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,12,20)); lvl=0; h,r-ind=20,100
  [4,3]((4,15,24),(5,19,30),(2,8,13),(3,12,19)); lvl=1; h,r-ind=1,1
    [3,3]((2,8,13),(3,12,19),(7,27,43)); lvl=2; h,r-ind=1,1
    [3,3]((5,19,30),(3,12,19),(7,27,43)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,24),(5,19,30),(7,27,43)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,24),(2,8,13),(7,27,43)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,8,13),(3,12,19)); lvl=1; h,r-ind=1,1
  [3,3]((3,12,20),(0,1,0),(2,8,13)); lvl=1; h,r-ind=1,1
  [5,3]((0,1,0),(5,19,30),(4,14,21),(2,7,7),(3,12,19)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,4),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(1,4,5),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((3,12,19),(1,4,6),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,7),(1,4,4),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,7),(2,7,9),(1,4,5),(1,4,4)); lvl=2; h,r-ind=1,1
      [4,3]((2,7,8),(2,7,9),(1,4,5),(4,15,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,13),(2,7,9),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,17),(3,11,13),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(4,15,17),(3,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(3,11,13),(2,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(1,4,5),(4,15,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,4),(2,7,7),(2,7,8),(4,15,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,7),(3,11,12),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,17),(3,11,12),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(4,15,17),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(2,7,7),(3,11,12)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,6),(2,7,9),(1,4,5),(2,7,10)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,9),(3,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(2,7,9),(3,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,4,5),(3,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(1,4,6),(3,11,15)); lvl=3; h,r-ind=1,1
    [4,3]((4,14,21),(3,11,17),(1,4,6),(2,7,10)); lvl=2; h,r-ind=1,1
      [3,3]((5,18,27),(1,4,6),(3,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,21),(5,18,27),(3,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(5,18,27),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,21),(2,7,10),(5,18,27)); lvl=3; h,r-ind=1,1
    [3,3]((5,19,30),(3,11,17),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,12,19),(5,19,30),(1,4,6)); lvl=2; h,r-ind=1,1
  [5,3]((1,3,3),(4,9,12),(2,6,9),(4,14,21),(2,7,7)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,4),(2,5,7),(4,9,12),(5,12,15)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,9),(2,5,7),(4,9,12),(6,15,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,16),(4,9,12),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((6,15,20),(5,12,16),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(6,15,20),(5,12,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(5,12,16),(4,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(3,7,9),(6,15,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,7,9),(5,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(6,15,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(1,3,4),(5,12,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,3),(1,3,4),(2,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,7),(2,7,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,4),(2,6,9),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,9),(3,10,15)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(2,7,10),(4,14,21),(3,10,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,10),(4,14,21),(5,17,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,15),(4,14,21),(5,17,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,10),(5,17,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,15),(1,3,4),(5,17,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,9),(2,7,10)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(2,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,3),(4,9,12)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((3,12,20),(4,15,24),(1,3,5),(2,8,13)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,5),(3,11,18),(4,15,24)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,13),(3,11,18),(4,15,24)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,13),(3,12,20),(3,11,18)); lvl=2; h,r-ind=1,1
    [3,3]((3,12,20),(1,3,5),(3,11,18)); lvl=2; h,r-ind=1,1
  [5,3]((4,15,24),(5,19,30),(2,6,9),(4,14,21),(1,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,11,17),(5,19,30),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,24),(5,19,30),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,24),(1,3,5),(2,7,11)); lvl=2; h,r-ind=1,1
    [4,3]((3,11,17),(4,14,21),(3,10,15),(2,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((4,14,21),(3,10,15),(6,21,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(3,10,15),(6,21,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,17),(2,7,11),(6,21,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,17),(4,14,21),(6,21,32)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(3,10,15),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(2,6,9),(2,7,11)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(4,9,12),(2,6,9),(1,3,5)); lvl=1; h,r-ind=3,3
```

```
    [4,3]((1,2,3),(4,9,12),(2,5,7),(5,9,12)); lvl=2; h,r-ind=1,1
      [4,3]((3,6,8),(6,13,18),(2,5,7),(4,9,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,11,15),(6,13,18),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,12),(5,11,15),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,8),(4,9,12),(5,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,8),(5,11,15),(6,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(3,6,8),(6,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,6,8),(5,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(6,13,18),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(5,9,12)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,3,5),(1,0,0),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,6,9),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,3),(2,6,9)); lvl=2; h,r-ind=1,1
```

20.35 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,13,20)); lvl=0; h,r-ind=20,400
  [5,3]((2,3,4),(1,3,4),(2,5,6),(2,6,9),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,6,8),(2,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(5,11,15),(3,6,8),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,6,8),(5,11,15),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,15),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(1,2,3),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,6,8),(4,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(1,2,3),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,9),(2,5,7)); lvl=2; h,r-ind=1,1
    [6,3]((5,11,15),(3,6,8),(6,14,19),(3,7,9),(5,12,16),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,16),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,8),(2,4,5),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,15),(3,6,8),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,19),(5,12,16),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,15),(6,14,19),(4,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,9),(2,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(3,7,9),(5,12,16),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,16),(4,10,13),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(4,10,13),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,6),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,12,16),(4,10,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(5,11,15),(6,14,19),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,15),(6,14,19),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(6,14,19),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,15),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(1,2,3),(7,16,22)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(6,14,19),(2,5,7),(5,12,16)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(6,14,19),(7,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,16),(6,14,19),(7,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(7,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,16),(1,3,4),(7,17,23)); lvl=3; h,r-ind=1,1
  [3,3]((3,13,20),(2,6,9),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,4),(1,0,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,13,20),(1,0,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,4),(1,3,3),(2,5,6),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,6),(2,4,5),(1,3,3),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(1,2,2),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(5,11,13),(2,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,6),(5,11,13),(1,2,2),(1,3,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,11,13),(3,7,8),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(3,7,8),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(5,11,13),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,5,6),(3,7,8)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,4),(1,0,0),(2,4,5),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,5),(2,3,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(5,8,10),(1,1,1)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,4),(5,8,10),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,5),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(1,0,0),(3,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(2,4,5),(5,8,10)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((2,7,9),(1,3,4),(1,4,6),(2,6,9)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,9),(2,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(2,6,9),(2,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,9),(1,3,4),(2,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,9),(2,7,10)); lvl=2; h,r-ind=1,1
```

```
  [3,3]((3,13,20),(1,4,6),(2,6,9)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,7,7),(2,7,9),(1,4,6)); lvl=1; h,r-ind=1,1
    [4,3]((1,4,5),(2,8,9),(2,7,9),(2,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,13),(2,7,8),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,11,13),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,8,9),(3,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(3,11,13),(2,7,8)); lvl=3; h,r-ind=1,1
    [4,3]((2,8,9),(1,4,4),(2,7,7),(2,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,12),(2,7,7),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(3,11,12),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(2,8,9),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,11,12),(2,7,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,8,9),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(2,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(0,1,0),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(1,4,5),(2,7,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,13,19),(1,4,6)); lvl=1; h,r-ind=1,1
  [3,3]((3,13,20),(3,13,19),(1,4,6)); lvl=1; h,r-ind=1,1
  [3,3]((3,13,20),(0,1,0),(3,13,19)); lvl=1; h,r-ind=3,9; optimized-h
  [5,3]((2,7,7),(2,7,9),(1,3,4),(1,3,3),(2,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(6,19,22),(5,16,19),(2,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,16,19),(6,19,22),(7,22,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(6,19,22),(7,22,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,7),(7,22,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,16,19),(7,22,26)); lvl=3; h,r-ind=1,1
    [4,3]((5,16,18),(1,3,3),(6,19,22),(2,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((7,22,25),(2,6,7),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,18),(7,22,25),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((6,19,22),(7,22,25),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,18),(6,19,22),(7,22,25)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,7),(3,10,11),(5,16,18),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,14),(3,10,11),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(4,13,14),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,7),(4,13,14),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(4,13,14)); lvl=3; h,r-ind=1,1
    [6,3]((2,7,8),(3,10,11),(5,16,18),(3,10,12),(6,19,22),(5,16,19)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,15),(6,19,22),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,11),(4,13,15),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,10,11),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,19),(4,13,15),(6,19,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(5,16,19),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,10,12),(4,13,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,9),(2,7,8),(3,10,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,7),(2,7,8),(3,10,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,9),(1,3,4),(3,10,12),(5,16,19)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,16),(1,3,4),(5,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,16),(3,10,12),(5,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(4,13,16),(3,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(4,13,16),(1,3,4)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,7,7),(1,3,3)); lvl=1; h,r-ind=1,1
```

20.36 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,15,20)); lvl=0; h,r-ind=20,80
  [6,3]((3,14,18),(4,19,24),(1,3,4),(3,12,16),(2,7,7),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,5),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(1,3,4),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(3,12,16),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(3,13,17),(3,12,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,18),(1,4,5),(3,13,17)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(4,17,20),(2,7,7),(1,3,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,3),(2,8,9),(4,15,17),(2,7,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,8,9),(4,15,17),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(4,15,17),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,7),(2,8,9),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,7),(3,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,8,9),(4,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,4,5),(4,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(4,17,20),(2,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(2,9,11),(4,17,20)); lvl=2; h,r-ind=1,1
    [3,3]((4,19,24),(1,4,5),(2,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,18),(4,19,24),(1,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,7,7),(1,2,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(1,3,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

```
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(4,19,24),(3,15,19),(2,7,7)); lvl=1; h,r-ind=1,4
    [3,3]((1,5,6),(3,15,19),(4,19,24)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,11),(4,19,24)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(4,17,20),(2,9,10),(2,9,11)); lvl=2; h,r-ind=1,1
      [4,3]((2,9,11),(6,27,32),(3,13,15),(4,17,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,15),(6,27,32),(5,22,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,11),(6,27,32),(5,22,26)); lvl=4; h,r-ind=1,1
        [3,3]((4,17,20),(3,13,15),(5,22,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,11),(4,17,20),(5,22,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,9,11),(6,27,32)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,6),(6,27,32),(2,9,10),(3,13,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,18,21),(3,13,15),(6,27,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(4,18,21),(6,27,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(4,18,21),(3,13,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,9,10),(4,18,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,5),(1,5,6),(2,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,4),(2,7,7),(4,17,20),(2,9,10)); lvl=2; h,r-ind=1,1
      [3,3]((3,13,15),(2,8,9),(4,17,20)); lvl=3; h,r-ind=1,1
      [4,3]((3,13,15),(4,17,19),(7,29,32),(2,8,9)); lvl=3; h,r-ind=1,1
        [3,3]((4,17,19),(7,29,32),(6,25,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(7,29,32),(6,25,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,15),(4,17,19),(6,25,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(3,13,15),(6,25,28)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,4),(7,29,32),(2,7,7),(2,8,9)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((7,29,32),(3,12,13),(2,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,7),(3,12,13),(2,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(2,7,7),(3,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(7,29,32),(3,12,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,10),(3,13,15),(4,17,19)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,4),(2,9,10),(4,17,19),(7,29,32)); lvl=3; h,r-ind=1,1
        [3,3]((2,9,10),(5,21,23),(4,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((7,29,32),(5,21,23),(4,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(7,29,32),(5,21,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(2,9,10),(5,21,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,5),(1,4,4),(2,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,6),(3,15,19)); lvl=2; h,r-ind=1,1
  [4,3]((3,14,18),(4,19,24),(2,10,13),(3,15,19)); lvl=1; h,r-ind=1,1
    [3,3]((2,10,13),(3,15,19),(6,29,37)); lvl=2; h,r-ind=1,1
    [3,3]((4,19,24),(3,15,19),(6,29,37)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,18),(4,19,24),(6,29,37)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,18),(2,10,13),(6,29,37)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,10,13),(3,15,19)); lvl=1; h,r-ind=1,1
  [4,3]((3,15,20),(3,14,18),(2,10,13),(3,12,16)); lvl=1; h,r-ind=1,1
    [4,3]((9,42,55),(5,23,30),(2,10,13),(3,14,18)); lvl=2; h,r-ind=1,1
      [3,3]((5,23,30),(7,33,43),(3,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,13),(7,33,43),(3,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((9,42,55),(5,23,30),(7,33,43)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,13),(9,42,55),(7,33,43)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,17),(5,23,30),(3,14,18)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,12),(3,15,20),(9,42,55),(2,10,13)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((4,19,25),(3,15,20),(2,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((9,42,55),(4,19,25),(2,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,12),(9,42,55),(4,19,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,12),(4,19,25),(3,15,20)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,12),(3,13,17),(9,42,55),(5,23,30)); lvl=2; h,r-ind=1,1
      [3,3]((7,32,42),(3,13,17),(5,23,30)); lvl=3; h,r-ind=1,1
      [3,3]((9,42,55),(7,32,42),(5,23,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,12),(9,42,55),(7,32,42)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,12),(7,32,42),(3,13,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(3,13,17),(3,12,16)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,15,20),(2,10,13)); lvl=1; h,r-ind=1,1
```

20.37 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,16,20)); lvl=0; h,r-ind=20,100
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,4,5),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,7,7),(0,1,0),(1,2,2)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,4,5),(2,7,7),(1,5,6),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,6),(2,7,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,12,14),(1,5,6),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(3,12,14),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,8),(1,3,3),(3,12,14)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,4,5),(2,7,8),(3,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,7,8),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,2,2),(2,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(3,12,14),(1,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((3,16,20),(1,4,5),(1,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,7),(1,5,6),(0,1,0)); lvl=1; h,r-ind=5,25; optimized-h
  [3,3]((1,5,6),(3,16,19),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,16,20),(3,16,19),(0,1,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((3,16,20),(1,5,6),(3,16,19)); lvl=1; h,r-ind=1,1
```

20.38 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,18,20)); lvl=0; h,r-ind=20,200
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,9,10),(3,11,12),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((3,10,11),(3,11,12),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,10,11),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,10),(1,0,0),(3,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,10),(3,10,11),(3,11,12)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,7,7)); lvl=1; h,r-ind=5,5; optimized-h
  [4,3]((3,11,12),(1,1,1),(2,7,7),(6,29,31)); lvl=1; h,r-ind=1,1
    [4,3]((3,13,14),(3,14,15),(1,3,3),(2,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((4,16,17),(1,3,3),(3,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,14),(4,16,17),(3,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,16,17),(2,5,5),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,14),(4,16,17),(2,5,5)); lvl=3; h,r-ind=1,1
    [4,3]((3,11,12),(3,13,14),(1,1,1),(2,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,13,14),(1,2,2),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,13),(3,13,14),(1,2,2)); lvl=3; h,r-ind=1,1
      [4,3]((3,11,12),(3,12,13),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
        [3,3]((3,12,13),(1,2,2),(4,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(4,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,12),(1,1,1),(4,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,12),(3,12,13),(4,13,14)); lvl=4; h,r-ind=1,1
    [3,3]((4,18,19),(3,14,15),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,18,19),(2,7,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,18,19),(6,29,31),(3,14,15)); lvl=2; h,r-ind=1,1
  [5,3]((3,18,20),(2,9,10),(3,11,12),(2,11,12),(6,29,31)); lvl=1; h,r-ind=1,1
    [4,3]((4,21,23),(2,11,12),(3,14,15),(6,29,31)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,11,12),(6,29,31),(5,25,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,15),(6,29,31),(5,25,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,21,23),(2,11,12),(5,25,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,15),(4,21,23),(5,25,27)); lvl=3; h,r-ind=1,1
    [3,3]((3,18,20),(4,21,23),(2,11,12)); lvl=2; h,r-ind=1,1
    [4,3]((4,21,23),(2,10,11),(3,13,14),(3,14,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,10,11),(3,13,14),(5,24,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,15),(3,13,14),(5,24,26)); lvl=3; h,r-ind=1,1
      [3,3]((4,21,23),(2,10,11),(5,24,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,15),(4,21,23),(5,24,26)); lvl=3; h,r-ind=1,1
    [3,3]((3,18,20),(4,21,23),(2,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,12),(2,10,11),(3,13,14)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,9,10),(3,11,12),(2,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,18,20),(2,9,10),(2,10,11)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,7,7),(6,29,31),(3,18,19)); lvl=1; h,r-ind=1,1
    [4,3]((1,4,4),(3,15,16),(3,16,17),(1,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,15,16),(3,16,17),(4,20,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(3,16,17),(4,20,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,5,5),(4,20,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(3,15,16),(4,20,21)); lvl=3; h,r-ind=1,1
    [4,3]((3,18,19),(1,6,6),(3,16,17),(1,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,6),(1,5,5),(5,28,29)); lvl=3; h,r-ind=1,1
      [4,3]((3,16,17),(3,17,18),(1,5,5),(5,28,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,22,23),(3,17,18),(5,28,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(4,22,23),(5,28,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,17),(4,22,23),(3,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(3,16,17),(4,22,23)); lvl=4; h,r-ind=1,1
      [4,3]((3,18,19),(3,17,18),(1,6,6),(5,28,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,23,24),(3,17,18),(5,28,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(4,23,24),(5,28,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,18,19),(4,23,24),(3,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(3,18,19),(4,23,24)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,6),(1,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,18,19),(1,6,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(1,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,4),(4,18,19),(6,29,31),(3,15,16)); lvl=2; h,r-ind=1,1
      [3,3]((4,18,19),(6,29,31),(7,33,35)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,16),(6,29,31),(7,33,35)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,4,4),(4,18,19),(7,33,35)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,16),(1,4,4),(7,33,35)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,7),(1,4,4),(4,18,19)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,7),(1,4,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,18,19),(2,12,13)); lvl=1; h,r-ind=1,1
  [3,3]((3,18,20),(0,1,0),(2,12,13)); lvl=1; h,r-ind=1,1
  [4,3]((2,11,12),(6,29,31),(3,18,19),(2,12,13)); lvl=1; h,r-ind=1,1
    [4,3]((2,11,12),(11,62,67),(3,16,17),(3,15,16)); lvl=2; h,r-ind=1,1
      [4,3]((2,11,12),(14,77,83),(11,62,67),(7,39,42)); lvl=3; h,r-ind=1,1
        [3,3]((9,50,54),(7,39,42),(14,77,83)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(9,50,54),(14,77,83)); lvl=4; h,r-ind=1,1
        [3,3]((11,62,67),(9,50,54),(7,39,42)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(11,62,67),(9,50,54)); lvl=4; h,r-ind=1,1
      [4,3]((5,27,29),(14,77,83),(3,16,17),(7,39,42)); lvl=3; h,r-ind=1,1
        [3,3]((7,39,42),(14,77,83),(12,66,71)); lvl=4; h,r-ind=1,1
        [3,3]((5,27,29),(14,77,83),(12,66,71)); lvl=4; h,r-ind=1,1
        [3,3]((5,27,29),(3,16,17),(12,66,71)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,17),(7,39,42),(12,66,71)); lvl=4; h,r-ind=1,1
      [3,3]((5,27,29),(3,15,16),(3,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,12),(5,27,29),(14,77,83)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,12),(5,27,29),(3,15,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,12),(6,29,31),(3,15,16)); lvl=2; h,r-ind=1,1
    [4,3]((2,12,13),(11,62,67),(3,18,19),(3,16,17)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [3,3]((7,40,43),(3,16,17),(7,39,42)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((2,12,13),(11,62,67),(7,40,43),(7,39,42)); lvl=3; h,r-ind=1,2
        [3,3]((9,51,55),(7,39,42),(11,62,67)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,13),(9,51,55),(11,62,67)); lvl=4; h,r-ind=1,1
        [3,3]((7,40,43),(9,51,55),(7,39,42)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,13),(7,40,43),(9,51,55)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,18),(7,40,43),(3,16,17)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((2,12,13),(3,18,19),(3,17,18),(7,40,43)); lvl=3; h,r-ind=1,2
        [3,3]((5,29,31),(3,17,18),(3,18,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,13),(5,29,31),(3,18,19)); lvl=4; h,r-ind=1,1
        [3,3]((7,40,43),(5,29,31),(3,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,13),(7,40,43),(5,29,31)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,12),(2,12,13),(11,62,67)); lvl=2; h,r-ind=1,1
  [3,3]((3,18,20),(2,11,12),(2,12,13)); lvl=1; h,r-ind=1,1
```

20.39 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,19,20)); lvl=0; h,r-ind=20,400
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,19,20),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,7,7),(1,1,1)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((3,19,20),(2,7,7),(1,1,1)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((0,1,0),(1,6,6),(2,7,7)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((0,1,0),(1,6,6),(3,19,19)); lvl=1; h,r-ind=1,1
  [3,3]((3,19,20),(0,1,0),(3,19,19)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((3,19,20),(1,6,6),(3,19,19)); lvl=1; h,r-ind=1,1
  [3,3]((3,19,20),(1,6,6),(2,7,7)); lvl=1; h,r-ind=5,5; optimized-h
```

20.40 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,5,20)); lvl=0; h,r-ind=20,20
  [4,3]((1,1,4),(4,5,15),(4,5,10),(1,0,0)); lvl=1; h,r-ind=5,5
    [4,3]((1,1,3),(1,1,2),(4,5,10),(8,10,25)); lvl=2; h,r-ind=1,1
      [4,3]((7,8,19),(8,10,23),(1,1,2),(4,5,10)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((11,13,29),(1,1,2),(4,5,10),(4,5,11)); lvl=4; h,r-ind=1,3
          [3,3]((5,6,13),(4,5,10),(1,1,2)); lvl=5; h,r-ind=1,1
          [3,3]((11,13,29),(5,6,13),(1,1,2)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,11),(11,13,29),(5,6,13)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,11),(5,6,13),(4,5,10)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,14),(11,13,29),(4,5,11)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((5,6,14),(8,10,23),(4,5,11)); lvl=4; h,r-ind=1,1
        [4,3]((7,8,19),(5,6,14),(11,13,29),(1,1,2)); lvl=4; h,r-ind=1,3
          [3,3]((5,6,14),(6,7,16),(11,13,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(6,7,16),(11,13,29)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,19),(1,1,2),(6,7,16)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,19),(5,6,14),(6,7,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,3),(7,8,19),(1,1,2)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,3),(7,8,19),(4,5,12),(8,10,23)); lvl=3; h,r-ind=1,1
        [4,3]((10,12,29),(5,6,14),(8,10,23),(4,5,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,6,14),(9,11,26),(8,10,23)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,12),(9,11,26),(8,10,23)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((10,12,29),(4,5,12),(9,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((10,12,29),(5,6,14),(9,11,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(10,12,29),(4,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(10,12,29),(5,6,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(5,6,14),(7,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(8,10,25),(4,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,15),(1,1,3),(8,10,25)); lvl=2; h,r-ind=5,5; optimized-h
    [3,3]((1,1,4),(4,5,15),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(1,0,0),(1,1,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(4,5,10),(1,0,0)); lvl=1; h,r-ind=10,10; optimized-h
  [4,3]((0,1,0),(4,5,15),(3,4,12),(4,5,10)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,6),(6,8,19),(3,4,11),(2,3,7)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,7),(7,10,23),(3,4,10),(3,4,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,17),(3,4,10),(7,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(5,7,17),(7,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,17),(3,4,11),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(5,7,17),(3,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(2,3,7),(7,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(7,10,23),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(6,8,19),(3,4,10)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,12),(3,5,12),(3,4,11),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,8),(2,3,7),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(7,10,26),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,26),(3,4,11),(2,3,7)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,12),(2,3,8),(7,10,26),(3,4,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,8),(5,7,19),(7,10,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,11),(5,7,19),(7,10,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,12),(3,4,11),(5,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,12),(2,3,8),(5,7,19)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(3,5,12),(2,3,6),(2,3,7)); lvl=2; h,r-ind=1,1
      [4,3]((3,5,10),(6,10,21),(2,3,7),(2,3,6)); lvl=3; h,r-ind=1,1
        [3,3]((6,10,21),(2,3,7),(5,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,6),(2,3,7),(5,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,10),(6,10,21),(5,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,10),(2,3,6),(5,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,10),(2,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,4),(6,10,21),(3,5,12),(2,3,7)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,5,11),(6,10,21),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,12),(3,5,11),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(3,5,12),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(3,5,11),(6,10,21)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(1,2,4),(3,5,10),(6,10,21)); lvl=3; h,r-ind=1,1
        [3,3]((4,7,14),(6,10,21),(3,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(4,7,14),(3,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(1,2,3),(4,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(4,7,14),(6,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((8,10,25),(6,8,19),(4,5,15),(3,4,11)); lvl=2; h,r-ind=1,1
      [4,3]((4,5,15),(8,10,27),(3,4,11),(3,4,10)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,11),(10,13,35),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,14),(10,13,35),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,14),(8,10,27),(3,4,10)); lvl=4; h,r-ind=1,1
        [4,3]((4,5,15),(4,5,14),(3,4,11),(10,13,35)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,5,14),(10,13,35),(7,9,25)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,11),(10,13,35),(7,9,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,15),(3,4,11),(7,9,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,15),(4,5,14),(7,9,25)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,13),(8,10,27),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,13),(7,9,22),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,22),(6,8,19),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,25),(4,5,13),(7,9,22)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,12),(4,5,15),(3,4,11)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,10),(2,3,6),(8,10,25),(6,8,19)); lvl=2; h,r-ind=2,1; alert-h-inc
      [3,3]((3,4,9),(2,3,6),(6,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(7,9,22),(6,8,19)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,12),(3,4,9),(8,10,25),(7,9,22)); lvl=3; h,r-ind=1,1
        [3,3]((11,14,34),(7,9,22),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,12),(11,14,34),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((8,10,25),(11,14,34),(7,9,22)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,12),(8,10,25),(11,14,34)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,23),(4,5,12),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,8),(3,4,9),(2,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,10),(8,10,23),(3,4,8),(3,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((10,13,28),(3,4,9),(3,4,8)); lvl=4; h,r-ind=1,1
        [4,3]((4,5,10),(10,13,28),(4,5,11),(3,4,8)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((7,9,19),(10,13,28),(4,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,10),(7,9,19),(4,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,8),(4,5,10),(7,9,19)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,8),(7,9,19),(10,13,28)); lvl=5; h,r-ind=1,1
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      [3,3]((10,13,28),(4,5,11),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,11),(8,10,23),(3,4,9)); lvl=4; h,r-ind=1,1
  [3,3]((2,3,5),(4,5,10),(2,3,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(2,3,5),(2,3,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[4,3]((1,1,4),(3,4,13),(4,5,15),(3,4,12)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,13),(4,5,16),(3,4,12)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,15),(4,5,16),(3,4,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,4),(3,4,13),(4,5,16)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,15),(1,1,4),(4,5,16)); lvl=2; h,r-ind=1,1
[4,3]((4,5,20),(2,3,10),(1,1,4),(3,4,13)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,10),(3,4,14),(3,4,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,4),(3,4,14),(3,4,13)); lvl=2; h,r-ind=1,1
  [3,3]((7,9,33),(1,1,4),(3,4,14)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,15),(4,5,20),(7,9,33),(1,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,19),(4,5,20),(1,1,4)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,33),(4,5,19),(1,1,4)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,15),(4,5,19),(4,5,20)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,15),(7,9,33),(4,5,19)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,15),(7,9,33),(2,3,10),(3,4,14)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,33),(6,8,29),(3,4,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(6,8,29),(3,4,14)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,15),(2,3,10),(6,8,29)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,15),(7,9,33),(6,8,29)); lvl=3; h,r-ind=1,1
[4,3]((0,1,0),(2,3,10),(3,4,13),(3,4,12)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,9),(2,3,10),(3,4,13)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,9),(3,4,12),(3,4,13)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,12),(2,3,9),(3,4,12)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,2,5),(0,1,0),(3,5,12),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(1,2,4),(3,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,18),(2,3,9),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(4,7,18),(0,1,0),(1,2,4)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,9),(1,2,4),(4,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,9),(4,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,9),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(0,1,0),(2,4,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(4,7,18),(2,3,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,5),(2,3,9),(2,3,10)); lvl=2; h,r-ind=1,1
```

20.41 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,9,20)); lvl=0; h,r-ind=20,100
  [3,3]((2,3,6),(3,6,13),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(2,3,6),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((4,9,20),(2,5,10),(3,6,13),(1,2,4)); lvl=1; h,r-ind=1,1
    [3,3]((6,13,28),(3,6,13),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,15),(2,5,10),(6,13,28),(1,2,4)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,9,19),(2,5,10),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,28),(4,9,19),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,15),(6,13,28),(4,9,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,15),(4,9,19),(2,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,20),(3,7,15),(6,13,28)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,9,20),(6,13,28),(3,6,13)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((0,1,0),(1,2,3),(2,5,10),(1,2,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,8),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(2,5,10),(2,5,8),(1,2,4)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,9),(2,5,10),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(2,5,9),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,8),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,9),(2,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,5),(2,5,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,5,8),(1,2,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((1,1,2),(4,6,13),(2,3,6),(3,6,13),(8,16,35)); lvl=1; h,r-ind=1,1
    [3,3]((7,12,26),(6,11,24),(4,6,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(11,19,41),(7,12,26),(4,6,13)); lvl=2; h,r-ind=1,1
      [3,3]((8,13,28),(11,19,41),(7,12,26)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(8,13,28),(7,12,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,6,13),(8,13,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(8,13,28),(11,19,41)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(4,7,15)); lvl=2; h,r-ind=1,1
    [6,3]((14,25,54),(11,19,41),(7,12,26),(6,11,24),(9,17,37),(13,24,52)); lvl=2; h,r-ind=1,1
      [3,3]((10,18,39),(7,12,26),(11,19,41)); lvl=3; h,r-ind=1,1
      [3,3]((14,25,54),(10,18,39),(11,19,41)); lvl=3; h,r-ind=1,1
      [3,3]((14,25,54),(13,24,52),(10,18,39)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,24),(10,18,39),(7,12,26)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,24),(9,17,37),(10,18,39)); lvl=3; h,r-ind=1,1
      [3,3]((13,24,52),(9,17,37),(10,18,39)); lvl=3; h,r-ind=1,1
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    [3,3]((8,16,35),(6,11,24),(9,17,37)); lvl=2; h,r-ind=1,1
    [4,3]((3,6,13),(8,16,35),(9,17,37),(13,24,52)); lvl=2; h,r-ind=1,1
      [3,3]((8,16,35),(12,23,50),(9,17,37)); lvl=3; h,r-ind=1,1
      [3,3]((13,24,52),(12,23,50),(9,17,37)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,13),(13,24,52),(12,23,50)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,13),(8,16,35),(12,23,50)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,15),(14,25,54),(3,6,13),(13,24,52)); lvl=2; h,r-ind=1,1
      [3,3]((14,25,54),(13,24,52),(17,31,67)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,13),(13,24,52),(17,31,67)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,15),(14,25,54),(17,31,67)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,13),(4,7,15),(17,31,67)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(4,7,15),(3,6,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(4,7,15),(14,25,54),(11,19,41)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,15),(14,25,54),(15,26,56)); lvl=3; h,r-ind=1,1
      [3,3]((11,19,41),(14,25,54),(15,26,56)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(11,19,41),(15,26,56)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,7,15),(15,26,56)); lvl=3; h,r-ind=1,1
  [5,3]((1,2,3),(2,4,5),(2,2,3),(1,1,2),(2,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,7),(2,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [6,3]((6,9,14),(5,7,11),(3,4,6),(3,5,7),(5,8,12),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(3,5,7),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(5,8,12),(4,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(6,9,14),(5,8,12),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(7,11,17)); lvl=3; h,r-ind=1,1
    [4,3]((5,7,11),(3,4,6),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,8),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,7,11),(4,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,8),(2,2,3)); lvl=3; h,r-ind=1,1
    [4,3]((6,9,14),(5,7,11),(2,3,5),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((7,10,16),(1,1,2),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(7,10,16),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,16),(2,3,5),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(7,10,16),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,6),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(3,5,7),(5,8,12),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(4,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(4,6,13)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,4,5),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,5),(2,3,4),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(2,3,4),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
  [4,3]((4,9,20),(1,0,0),(4,6,13),(8,16,35)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,11),(1,0,0),(4,6,13)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,11),(6,11,24),(8,15,33),(4,6,13)); lvl=2; h,r-ind=1,1
      [3,3]((6,11,24),(9,16,35),(8,15,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(9,16,35),(8,15,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(4,6,13),(9,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(6,11,24),(9,16,35)); lvl=3; h,r-ind=1,1
    [4,3]((8,16,35),(6,11,24),(8,15,33),(5,10,22)); lvl=2; h,r-ind=1,1
      [3,3]((6,11,24),(11,21,46),(8,15,33)); lvl=3; h,r-ind=1,1
      [3,3]((5,10,22),(11,21,46),(8,15,33)); lvl=3; h,r-ind=1,1
      [3,3]((8,16,35),(5,10,22),(11,21,46)); lvl=3; h,r-ind=1,1
      [3,3]((8,16,35),(6,11,24),(11,21,46)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,20),(8,15,33),(5,10,22)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((4,9,20),(8,16,35),(5,10,22)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,20),(3,5,11),(8,15,33)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,20),(3,5,11),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((4,9,20),(3,6,13),(8,16,35)); lvl=1; h,r-ind=1,1
```

20.42 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,11,20)); lvl=0; h,r-ind=20,100
  [3,3]((2,5,5),(0,1,0),(1,0,0)); lvl=1; h,r-ind=5,5; optimized-h
  [4,3]((1,2,3),(2,5,5),(2,3,5),(1,0,0)); lvl=1; h,r-ind=1,2
    [3,3]((4,6,9),(2,3,3),(1,0,0)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,3,5),(4,6,9),(1,0,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,3),(2,3,5),(4,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(4,6,9),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,2),(4,7,9),(2,3,4),(2,3,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,7,9),(3,5,6),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(3,5,6),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(4,7,9),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,2),(4,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,9),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,6,9),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,5),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,5),(2,4,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,9),(2,4,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,11,20),(2,5,9),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((3,7,12),(1,2,3),(7,16,28),(2,3,5),(2,4,7)); lvl=1; h,r-ind=1,1
    [3,3]((5,10,17),(2,4,7),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(5,10,17),(2,3,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,7,12),(1,2,3),(6,13,22)); lvl=2; h,r-ind=1,1
    [4,3]((5,10,17),(8,17,29),(5,11,19),(2,4,7)); lvl=2; h,r-ind=1,1
      [3,3]((8,17,29),(5,11,19),(10,21,36)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(5,11,19),(10,21,36)); lvl=3; h,r-ind=1,1
      [3,3]((5,10,17),(8,17,29),(10,21,36)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(5,10,17),(10,21,36)); lvl=3; h,r-ind=1,1
    [3,3]((7,16,28),(5,11,19),(2,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,12),(7,16,28),(5,11,19)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(5,10,17),(6,13,22),(8,17,29)); lvl=2; h,r-ind=1,1
      [4,3]((3,6,10),(17,36,61),(5,10,17),(8,17,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((11,23,39),(8,17,29),(17,36,61)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,10),(11,23,39),(17,36,61)); lvl=4; h,r-ind=1,1
        [3,3]((5,10,17),(11,23,39),(8,17,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,10),(5,10,17),(11,23,39)); lvl=4; h,r-ind=1,1
      [3,3]((6,13,22),(17,36,61),(8,17,29)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(3,6,10),(6,13,22),(17,36,61)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,19,32),(3,6,10),(17,36,61)); lvl=4; h,r-ind=1,1
        [3,3]((9,19,32),(6,13,22),(17,36,61)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(9,19,32),(6,13,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(9,19,32),(3,6,10)); lvl=4; h,r-ind=1,1
    [4,3]((3,7,12),(6,13,22),(8,17,29),(5,11,19)); lvl=2; h,r-ind=1,1
      [3,3]((11,24,41),(8,17,29),(6,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(11,24,41),(6,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,19),(11,24,41),(8,17,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(5,11,19),(11,24,41)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,9),(7,16,28),(2,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,5),(1,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,5),(1,3,3),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,3,5),(3,7,12),(1,2,3),(2,5,5),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,8),(3,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,8),(3,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,8),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,6),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,6),(2,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(1,3,3),(2,5,7),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(2,5,6),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,6),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(3,8,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,5),(1,3,4),(2,5,8),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,8),(2,5,7),(3,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(3,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,4),(3,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,8),(3,8,12)); lvl=3; h,r-ind=1,1
  [3,3]((4,11,20),(1,3,5),(2,5,9)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,5),(3,7,12),(2,5,9),(7,16,28)); lvl=1; h,r-ind=1,1
    [3,3]((5,12,21),(3,7,12),(7,16,28)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((2,5,9),(5,12,21),(7,16,28)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(5,12,21),(3,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(1,3,5),(5,12,21)); lvl=2; h,r-ind=1,1
```

20.43 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,13,20)); lvl=0; h,r-ind=20,100
  [5,3]((1,2,3),(2,5,7),(2,5,5),(1,2,2),(2,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(5,11,14),(6,13,16),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,14),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,14),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(7,15,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(5,11,13),(6,13,16),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,13),(6,13,16),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,16),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,11,13),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(7,15,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(1,2,2),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,4),(2,4,5)); lvl=2; h,r-ind=1,1
    [6,3]((2,5,6),(3,7,8),(5,11,13),(3,7,9),(5,11,14),(6,13,16)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,11),(5,11,14),(6,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(4,9,11),(6,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(5,11,13),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(4,9,11),(5,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,7,9),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(2,5,6),(4,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,5),(2,5,6),(3,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(2,5,5),(3,7,8),(5,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,8),(2,5,5),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(1,2,2),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(3,7,8),(4,9,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,7),(3,7,9),(5,11,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(1,2,3),(4,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,5,7),(3,7,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(2,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((4,13,20),(1,2,3),(3,8,12)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,13,20),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((2,7,10),(4,11,16),(2,5,7),(0,1,0),(2,5,5)); lvl=1; h,r-ind=2,2
    [4,3]((1,3,3),(2,6,7),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,9),(2,5,6),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,8,9),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,8,9),(2,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,7),(1,3,4),(2,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,8,10),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(1,3,4),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(2,5,7),(3,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,16),(2,5,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,16),(3,9,13),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,10),(3,9,13),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,4),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,10),(1,4,5),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,6,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(3,8,12),(4,11,16),(2,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,12),(4,11,16),(5,13,19)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(4,11,16),(5,13,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,8,12),(5,13,19)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(1,2,3),(5,13,19)); lvl=2; h,r-ind=1,1
  [4,3]((4,13,20),(2,7,10),(3,8,12),(4,11,16)); lvl=1; h,r-ind=2,4
    [3,3]((2,6,9),(3,9,13),(4,11,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,12),(2,6,9),(4,11,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(2,7,10),(3,9,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,15),(2,6,9),(2,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,13,20),(3,10,15),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,12),(4,13,20),(2,6,9)); lvl=2; h,r-ind=1,1
```

20.44 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,15,20)); lvl=0; h,r-ind=20,20
  [4,3]((1,3,4),(2,6,7),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,7),(2,5,5),(3,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,5,5),(3,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,7),(3,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,4),(3,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,4),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,4,5),(0,1,0),(2,6,7),(2,5,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,5),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,7,7),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,7),(0,1,0)); lvl=2; h,r-ind=3,9; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,4,5),(1,3,3),(2,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(1,3,3),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,6,7),(2,5,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,4),(1,4,5),(2,6,7)); lvl=1; h,r-ind=1,1
  [3,3]((4,15,20),(1,3,4),(1,4,5)); lvl=1; h,r-ind=1,1
```

20.45 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,17,20)); lvl=0; h,r-ind=20,100
  [4,3]((2,7,8),(3,7,8),(5,18,21),(2,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((4,13,15),(3,7,8),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((5,18,21),(4,13,15),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,8),(5,18,21),(4,13,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,8),(4,13,15),(3,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((4,17,20),(5,18,21),(2,6,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,7,8),(2,6,7)); lvl=1; h,r-ind=1,1
  [3,3]((4,17,20),(1,0,0),(2,6,7)); lvl=1; h,r-ind=1,1
  [4,3]((2,7,8),(2,5,5),(3,7,8),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((6,17,19),(3,8,9),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((4,10,11),(3,8,9),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,10,11),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,19),(4,10,11),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(6,17,19),(4,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,8),(6,17,19),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,8),(2,5,5),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,8),(6,17,19),(3,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,8),(3,8,9),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,8),(3,7,8),(3,8,9)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,9,10),(2,7,8),(2,5,5)); lvl=1; h,r-ind=2,2
    [4,3]((1,3,3),(2,8,9),(2,7,7),(2,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,7),(3,11,12),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,11,12),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(1,3,3),(3,11,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,5),(1,3,3),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(0,1,0),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,10),(1,5,5),(2,8,9),(2,7,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,9),(2,7,7),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(5,21,23),(1,4,4)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,10),(5,21,23),(1,5,5),(1,4,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,21,23),(3,13,14),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(3,13,14),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(1,5,5),(3,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(5,21,23),(3,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,9),(2,9,10),(5,21,23)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(2,7,7)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(3,7,8),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((4,17,20),(2,7,8),(5,18,21)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,17,20),(2,9,10),(2,7,8)); lvl=1; h,r-ind=4,2; optimized-h
```

20.46 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,19,20)); lvl=0; h,r-ind=20,100
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,19,20),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((2,5,5),(0,1,0),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,19,20),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,5,5),(1,5,5),(0,1,0)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((4,19,20),(2,5,5),(1,5,5)); lvl=1; h,r-ind=5,5; optimized-h
```

20.47 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,6,20)); lvl=0; h,r-ind=20,40
  [3,3]((1,1,3),(1,0,0),(3,3,10)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,20),(1,1,3),(3,3,10)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,20),(5,7,20),(1,1,3)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((0,1,0),(5,7,20),(1,1,3)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,1,2),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(1,0,0)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((0,1,0),(1,1,2),(1,1,3)); lvl=1; h,r-ind=1,1
```

20.48 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,8,20)); lvl=0; h,r-ind=20,20
  [4,3]((0,1,0),(1,2,3),(2,3,4),(2,3,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,2),(2,3,4),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,4),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(1,2,2),(3,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(1,2,2),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=3; h,r-ind=1,1
  [5,3]((1,1,2),(3,4,8),(2,2,3),(2,3,4),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(3,4,7),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,7),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(4,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,5),(5,7,11),(3,4,7),(6,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((8,11,18),(6,8,13),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(8,11,18),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(8,11,18),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,7,11),(8,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(2,3,5),(5,7,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(4,5,8),(5,7,11),(6,8,13)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,6),(4,5,8),(6,8,13),(14,19,30)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,12,19),(4,5,8),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((14,19,30),(9,12,19),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(14,19,30),(9,12,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(9,12,19),(4,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(6,8,13),(14,19,30)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,11),(2,3,4),(3,4,6),(14,19,30)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,6),(2,3,4),(8,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(2,3,4),(8,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((14,19,30),(3,4,6),(8,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(14,19,30),(8,11,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(4,5,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,1,2),(4,5,8),(3,4,7),(6,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,7),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,8),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,7),(7,9,15)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
  [6,3]((3,4,8),(5,7,15),(3,5,11),(1,2,4),(1,2,3),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,6),(5,7,15),(4,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(3,5,11),(4,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,4),(3,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(2,3,6),(5,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
```

```
  [4,3]((1,1,2),(3,4,8),(3,4,9),(5,7,15)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,8),(5,7,15),(6,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,9),(5,7,15),(6,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,8),(6,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,9),(1,1,2),(6,8,17)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(3,4,10),(1,1,2),(3,4,9)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,14),(3,4,10),(3,4,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((5,6,14),(1,1,2),(3,4,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(5,6,14),(2,2,5),(1,1,2)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,3,7),(2,2,5),(5,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,3,7),(5,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,3,7),(2,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,0,0),(3,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,14),(2,2,5),(3,4,10)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [6,3]((5,8,20),(3,4,10),(4,7,16),(3,4,9),(5,7,15),(3,5,11)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,7),(5,7,15),(4,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,5,11),(4,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(4,7,16),(3,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,12),(2,3,7),(4,7,16)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,15),(5,8,20),(3,5,12),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((7,11,27),(3,5,12),(5,8,20)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,15),(7,11,27),(5,8,20)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,27),(2,3,7),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,15),(7,11,27),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,9),(5,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,10),(2,3,7),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,15),(3,4,10),(2,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((4,7,16),(3,5,11),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
```

20.49 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,9,20)); lvl=0; h,r-ind=20,80
  [3,3]((4,6,13),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,2,3),(2,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,11),(4,6,13),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,9,20),(3,5,11),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,8),(4,6,13),(6,9,19),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,13),(6,9,19),(7,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(6,9,19),(7,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,8),(7,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(4,6,13),(7,10,21)); lvl=2; h,r-ind=1,1
  [5,3]((2,2,3),(2,3,5),(2,3,4),(3,4,8),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(4,5,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((5,7,11),(6,8,13),(2,3,4),(4,5,8)); lvl=2; h,r-ind=1,1
      [4,3]((14,19,30),(3,4,6),(4,5,8),(6,8,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,12,19),(3,4,6),(4,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((9,12,19),(6,8,13),(4,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((14,19,30),(9,12,19),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((14,19,30),(9,12,19),(3,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(14,19,30),(6,8,13)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,11),(14,19,30),(3,4,6),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((14,19,30),(8,11,17),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(8,11,17),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(2,3,4),(8,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(14,19,30),(8,11,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,5),(5,7,11),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(4,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,7),(6,8,13),(1,1,2),(4,5,8)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,8),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,7),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,7),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,8),(7,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,7),(1,1,2),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(3,4,7),(3,4,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,5),(5,7,11),(3,4,7),(6,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((8,11,18),(6,8,13),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(8,11,18),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(8,11,18),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,7,11),(8,11,18)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,4),(1,2,3),(2,3,5),(3,4,8)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((1,2,3),(5,8,14),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,6),(3,4,8),(5,8,14),(2,3,5)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,6,11),(3,4,8),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,14),(4,6,11),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(5,8,14),(4,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(4,6,11),(3,4,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(2,3,6),(1,2,3),(5,8,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,9),(2,3,6),(5,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(1,2,3),(5,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,9),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,9),(2,3,6)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,3),(2,3,5),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(2,3,4),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,4),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(1,2,2),(3,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,2),(1,2,3),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,4),(0,1,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,4),(5,8,17),(3,4,8),(6,9,19)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,17),(6,9,19),(13,20,42)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,8),(2,3,6),(6,9,19),(13,20,42)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((8,12,25),(13,20,42),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,8),(8,12,25),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,19),(3,4,8),(8,12,25)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,19),(8,12,25),(13,20,42)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(2,3,6),(5,8,17),(13,20,42)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,6),(7,11,23),(13,20,42)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,17),(7,11,23),(13,20,42)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(5,8,17),(7,11,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,6),(7,11,23)); lvl=3; h,r-ind=1,1
  [4,3]((3,5,11),(5,8,17),(4,6,13),(6,9,19)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,13),(6,9,19),(9,14,30)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,17),(6,9,19),(9,14,30)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(5,8,17),(9,14,30)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(4,6,13),(9,14,30)); lvl=2; h,r-ind=1,1
  [4,3]((5,9,20),(1,2,4),(3,5,11),(5,8,17)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,4),(5,8,17),(4,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(5,8,17),(4,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,20),(3,5,11),(4,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,20),(1,2,4),(4,7,15)); lvl=2; h,r-ind=1,1
```

20.50 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,11,20)); lvl=0; h,r-ind=20,80
  [4,3]((1,2,2),(3,6,10),(2,3,5),(4,5,8)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(9,14,22),(3,6,10),(2,3,5)); lvl=2; h,r-ind=1,4; alert-r-inc
      [3,3]((3,5,8),(9,14,22),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,10),(3,5,8),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,6,10),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,8),(9,14,22)); lvl=3; h,r-ind=1,1
    [4,3]((6,9,14),(9,14,22),(4,5,8),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(15,22,35),(8,12,19)); lvl=3; h,r-ind=1,1
      [4,3]((6,9,14),(5,7,11),(15,22,35),(8,12,19)); lvl=3; h,r-ind=1,1
        [3,3]((13,19,30),(15,22,35),(5,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(13,19,30),(5,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((8,12,19),(13,19,30),(15,22,35)); lvl=4; h,r-ind=1,1
        [3,3]((8,12,19),(6,9,14),(13,19,30)); lvl=4; h,r-ind=1,1
      [3,3]((9,14,22),(2,3,5),(8,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(9,14,22),(8,12,19)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,8),(5,7,11),(2,3,5),(15,22,35)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,11),(15,22,35),(7,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(15,22,35),(7,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(5,7,11),(7,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(4,5,8),(7,10,16)); lvl=4; h,r-ind=1,1
    [4,3]((5,7,10),(6,9,14),(4,6,9),(4,5,8)); lvl=2; h,r-ind=1,1
      [4,3]((4,6,9),(6,9,14),(16,23,35),(9,13,20)); lvl=3; h,r-ind=1,1
        [3,3]((9,13,20),(13,19,29),(6,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(13,19,29),(6,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((16,23,35),(4,6,9),(13,19,29)); lvl=4; h,r-ind=1,1
        [3,3]((16,23,35),(9,13,20),(13,19,29)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,6),(5,7,11),(16,23,35),(9,13,20)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((5,7,11),(12,17,26),(9,13,20)); lvl=4; h,r-ind=1,1
      [3,3]((16,23,35),(12,17,26),(9,13,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(16,23,35),(12,17,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,11),(12,17,26)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,6),(5,7,11),(4,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,11),(6,9,14),(9,13,20)); lvl=3; h,r-ind=1,1
    [4,3]((5,7,10),(3,4,6),(4,6,9),(16,23,35)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((7,10,15),(3,4,6),(16,23,35)); lvl=4; h,r-ind=1,1
      [3,3]((7,10,15),(4,6,9),(16,23,35)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,10),(7,10,15),(4,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,10),(7,10,15),(3,4,6)); lvl=4; h,r-ind=1,1
  [4,3]((1,2,3),(6,9,14),(4,6,9),(9,14,22)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,9),(7,11,17),(6,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((9,14,22),(7,11,17),(6,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(9,14,22),(7,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(4,6,9),(7,11,17)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,3),(1,2,2),(5,7,10),(4,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,9),(7,11,16),(5,7,10),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,4),(7,11,16),(6,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,9),(7,11,16),(6,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,10),(2,3,4),(6,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,9),(5,7,10),(6,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(7,11,16),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(4,6,9),(7,11,16)); lvl=3; h,r-ind=1,1
[4,3]((5,7,12),(3,3,5),(2,3,5),(4,5,8)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,10),(3,3,5),(4,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((5,6,10),(2,3,5),(4,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,12),(5,6,10),(2,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,12),(5,6,10),(3,3,5)); lvl=2; h,r-ind=1,1
[4,3]((1,2,2),(1,0,0),(3,3,5),(4,5,8)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(3,3,5),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,1),(2,2,3),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((2,2,3),(4,5,8),(3,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,10),(2,2,3),(4,5,8)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,1,1),(1,2,2),(5,7,10),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(1,2,2),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,5),(1,2,2),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,8),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(5,6,8),(3,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(1,2,2)); lvl=4; h,r-ind=1,1
    [3,3]((2,2,3),(1,1,1),(5,6,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(5,7,10),(2,3,4)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((5,10,18),(5,7,12),(1,0,0),(3,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,7),(5,7,12),(3,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,4,7),(3,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,7),(10,17,30),(5,7,12)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((3,5,9),(5,10,18),(3,4,7),(10,17,30)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,7),(10,17,30),(5,9,16)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,7),(11,18,32),(5,9,16)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,9),(11,18,32),(5,10,18),(5,9,16)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,9,16),(11,18,32),(8,14,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,9),(11,18,32),(8,14,25)); lvl=4; h,r-ind=1,1
      [3,3]((5,10,18),(5,9,16),(8,14,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,9),(5,10,18),(8,14,25)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,7),(3,5,9),(11,18,32)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(3,5,9),(3,4,7)); lvl=2; h,r-ind=1,1
[3,3]((5,11,20),(5,10,18),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((0,1,0),(5,12,20),(1,2,2),(3,6,10)); lvl=1; h,r-ind=2,2
  [3,3]((3,6,10),(1,2,3),(4,9,15)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,8),(1,2,3),(4,9,15)); lvl=2; h,r-ind=1,1
  [3,3]((5,12,20),(2,5,8),(4,9,15)); lvl=2; h,r-ind=1,1
  [3,3]((3,8,12),(2,5,8),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,8,12),(1,2,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,1
[4,3]((5,11,20),(5,10,18),(5,12,20),(3,6,10)); lvl=1; h,r-ind=2,2
  [3,3]((2,4,7),(3,6,10),(4,9,15)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,12),(2,4,7),(4,9,15)); lvl=2; h,r-ind=1,1
  [3,3]((5,12,20),(3,7,12),(4,9,15)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,12),(7,16,28),(2,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((5,11,20),(7,16,28),(2,4,7)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((5,11,20),(5,10,18),(2,4,7)); lvl=2; h,r-ind=1,1
[4,3]((5,10,18),(5,7,12),(3,6,10),(2,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((9,15,26),(13,22,38),(5,7,12),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(13,22,38),(11,18,31)); lvl=3; h,r-ind=1,1
    [3,3]((9,15,26),(13,22,38),(11,18,31)); lvl=3; h,r-ind=1,1
    [3,3]((20,32,55),(2,3,5),(11,18,31)); lvl=3; h,r-ind=1,1
    [4,3]((9,15,26),(7,11,19),(20,32,55),(11,18,31)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((7,11,19),(20,32,55),(18,29,50)); lvl=4; h,r-ind=1,1
      [3,3]((11,18,31),(20,32,55),(18,29,50)); lvl=4; h,r-ind=1,1
      [3,3]((9,15,26),(11,18,31),(18,29,50)); lvl=4; h,r-ind=1,1
      [3,3]((9,15,26),(7,11,19),(18,29,50)); lvl=4; h,r-ind=1,1
    [4,3]((5,7,12),(7,11,19),(20,32,55),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,19),(20,32,55),(9,14,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(20,32,55),(9,14,24)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,12),(7,11,19),(9,14,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(5,7,12),(9,14,24)); lvl=4; h,r-ind=1,1
  [4,3]((2,4,7),(13,22,38),(3,6,10),(2,3,5)); lvl=2; h,r-ind=1,4; alert-r-inc
    [3,3]((4,7,12),(2,3,5),(13,22,38)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(4,7,12),(13,22,38)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,10),(4,7,12),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(3,6,10),(4,7,12)); lvl=3; h,r-ind=1,1
  [4,3]((2,4,7),(9,15,26),(7,12,21),(13,22,38)); lvl=2; h,r-ind=1,1
    [3,3]((7,12,21),(9,15,26),(11,19,33)); lvl=3; h,r-ind=1,1
    [3,3]((13,22,38),(9,15,26),(11,19,33)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(13,22,38),(11,19,33)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(7,12,21),(11,19,33)); lvl=3; h,r-ind=1,1
  [4,3]((10,17,30),(9,15,26),(7,12,21),(5,7,12)); lvl=2; h,r-ind=1,1
    [4,3]((14,23,40),(26,43,75),(7,12,21),(9,15,26)); lvl=3; h,r-ind=1,1
      [3,3]((26,43,75),(7,12,21),(21,35,61)); lvl=4; h,r-ind=1,1
      [3,3]((9,15,26),(7,12,21),(21,35,61)); lvl=4; h,r-ind=1,1
      [3,3]((14,23,40),(26,43,75),(21,35,61)); lvl=4; h,r-ind=1,1
      [3,3]((14,23,40),(9,15,26),(21,35,61)); lvl=4; h,r-ind=1,1
    [3,3]((7,11,19),(14,23,40),(9,15,26)); lvl=3; h,r-ind=1,1
    [4,3]((5,8,14),(7,11,19),(14,23,40),(26,43,75)); lvl=3; h,r-ind=1,1
      [3,3]((19,31,54),(7,11,19),(14,23,40)); lvl=4; h,r-ind=1,1
      [3,3]((26,43,75),(19,31,54),(14,23,40)); lvl=4; h,r-ind=1,1
      [3,3]((5,8,14),(26,43,75),(19,31,54)); lvl=4; h,r-ind=1,1
      [3,3]((5,8,14),(19,31,54),(7,11,19)); lvl=4; h,r-ind=1,1
    [3,3]((5,8,14),(5,7,12),(7,11,19)); lvl=3; h,r-ind=1,1
    [4,3]((10,17,30),(5,8,14),(26,43,75),(7,12,21)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((5,8,14),(26,43,75),(12,20,35)); lvl=4; h,r-ind=1,1
      [3,3]((7,12,21),(26,43,75),(12,20,35)); lvl=4; h,r-ind=1,1
      [3,3]((10,17,30),(5,8,14),(12,20,35)); lvl=4; h,r-ind=1,1
      [3,3]((7,12,21),(10,17,30),(12,20,35)); lvl=4; h,r-ind=1,1
  [4,3]((2,4,7),(5,10,18),(10,17,30),(7,12,21)); lvl=2; h,r-ind=1,1
    [4,3]((7,12,21),(14,25,44),(5,9,16),(10,17,30)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((12,21,37),(14,25,44),(5,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((10,17,30),(12,21,37),(5,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((7,12,21),(10,17,30),(12,21,37)); lvl=4; h,r-ind=1,1
      [3,3]((7,12,21),(12,21,37),(14,25,44)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,7),(7,12,21),(14,25,44)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(14,25,44),(5,9,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(5,10,18),(5,9,16)); lvl=3; h,r-ind=1,1
```

20.51 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,12,20)); lvl=0; h,r-ind=20,20
  [3,3]((1,2,3),(1,0,0),(3,6,10)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((5,12,20),(2,5,8),(1,2,3),(3,6,10)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,8),(7,16,26),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((4,9,15),(3,6,10),(7,16,26),(1,2,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,3),(3,6,10),(5,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,15),(3,6,10),(5,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((7,16,26),(1,2,3),(5,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,15),(7,16,26),(5,11,18)); lvl=3; h,r-ind=1,1
    [4,3]((5,12,20),(4,9,15),(2,5,8),(7,16,26)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,14,23),(4,9,15),(7,16,26)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,23),(2,5,8),(7,16,26)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,20),(6,14,23),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,20),(6,14,23),(4,9,15)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,8),(3,8,12),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(1,0,0),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,8,12),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,2
    [3,3]((1,2,3),(1,3,4),(3,8,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,6),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,6),(1,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((1,2,2),(0,1,0),(2,5,6)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((1,2,2),(1,2,3),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,2),(1,0,0),(2,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
```

20.52 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,13,20)); lvl=0; h,r-ind=20,80
  [4,3]((1,2,3),(0,1,0),(1,3,4),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(0,1,0),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(0,1,0),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,4),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,3),(2,3,4),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(4,11,16),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,13,20),(1,2,3),(4,11,16)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(5,13,20),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

20.53 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,14,20)); lvl=0; h,r-ind=20,40
  [4,3]((1,3,4),(4,9,12),(1,2,2),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,9),(1,2,2),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,12),(3,7,9),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(4,9,12),(3,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(3,7,9),(1,2,2)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,4),(1,2,2),(2,4,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,2),(1,1,1),(2,4,5),(5,8,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(5,8,10),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(5,8,10),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(5,8,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,4),(1,1,1),(5,8,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,5),(2,3,4),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,4,5)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((2,3,4),(5,11,15),(4,9,12),(2,4,5)); lvl=1; h,r-ind=1,2
    [3,3]((3,6,8),(5,11,15),(4,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,6,8),(4,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(3,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,6,8),(5,11,15)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,4),(2,5,7),(5,11,15),(4,9,12)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,7),(5,11,15),(6,14,19)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,12),(5,11,15),(6,14,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,7),(6,14,19)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,12),(1,3,4),(6,14,19)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(3,7,10),(2,3,4),(2,5,7),(5,11,15)); lvl=1; h,r-ind=1,1
    [4,3]((5,10,14),(7,13,18),(4,8,11),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((7,13,18),(4,8,11),(9,18,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(4,8,11),(9,18,25)); lvl=3; h,r-ind=1,1
      [3,3]((5,10,14),(7,13,18),(9,18,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(5,10,14),(9,18,25)); lvl=3; h,r-ind=1,1
    [3,3]((5,11,15),(4,8,11),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(5,11,15),(4,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,10),(5,10,14),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,7,10),(5,10,14)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,3,4),(5,8,11),(7,13,18),(4,8,11)); lvl=2; h,r-ind=1,1
      [3,3]((9,16,22),(7,13,18),(5,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(9,16,22),(5,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,8,11),(9,16,22),(7,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(4,8,11),(9,16,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,4),(5,8,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(5,10,14),(5,8,11),(7,13,18)); lvl=2; h,r-ind=1,1
      [4,3]((5,10,14),(3,5,7),(7,13,18),(15,26,36)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((10,18,25),(3,5,7),(15,26,36)); lvl=4; h,r-ind=1,1
        [3,3]((10,18,25),(7,13,18),(15,26,36)); lvl=4; h,r-ind=1,1
        [3,3]((5,10,14),(10,18,25),(7,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((5,10,14),(10,18,25),(3,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((5,8,11),(7,13,18),(15,26,36)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(5,8,11),(3,5,7),(15,26,36)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,13,18),(5,8,11),(15,26,36)); lvl=4; h,r-ind=1,1
        [3,3]((8,13,18),(3,5,7),(15,26,36)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(8,13,18),(3,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(8,13,18),(5,8,11)); lvl=4; h,r-ind=1,1
  [3,3]((5,14,20),(3,7,10),(2,5,7)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((1,3,4),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((5,14,20),(1,3,4),(2,5,7)); lvl=1; h,r-ind=1,1
```

20.54 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,16,20)); lvl=0; h,r-ind=20,20
  [4,3]((2,5,6),(5,13,15),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,2
    [3,3]((1,2,2),(5,13,15),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(5,13,15),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(1,1,1),(3,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(5,17,20),(5,13,15),(1,2,2)); lvl=1; h,r-ind=5,5
    [4,3]((4,11,12),(1,2,2),(2,6,7),(5,13,15)); lvl=2; h,r-ind=1,3
      [3,3]((3,8,9),(1,2,2),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,8,9),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,12),(3,8,9),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(4,11,12),(3,8,9)); lvl=3; h,r-ind=1,1
    [4,3]((4,11,12),(1,3,3),(4,12,13),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((4,12,13),(1,3,3),(5,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(5,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,12),(4,12,13),(5,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,11,12),(5,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,12),(4,12,13),(2,6,7)); lvl=2; h,r-ind=2,2; optimized-h
    [4,3]((4,12,13),(3,10,11),(2,6,7),(2,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,8),(3,10,11),(8,26,29)); lvl=3; h,r-ind=1,1
      [4,3]((4,12,13),(3,9,10),(3,10,11),(8,26,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,9,10),(8,26,29),(6,19,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,11),(8,26,29),(6,19,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,12,13),(3,10,11),(6,19,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,12,13),(3,9,10),(6,19,21)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,7),(3,9,10),(2,7,8),(8,26,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,16,18),(3,9,10),(8,26,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(5,16,18),(8,26,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(2,7,8),(5,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(5,16,18),(3,9,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,7),(2,7,8),(5,17,20)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,12),(3,10,11),(2,7,8)); lvl=2; h,r-ind=1,1
    [5,3]((0,1,0),(3,11,12),(1,3,3),(4,12,13),(3,10,11)); lvl=2; h,r-ind=1,1
      [3,3]((5,16,17),(1,3,3),(4,12,13)); lvl=3; h,r-ind=1,1
      [5,3]((5,16,17),(8,27,29),(10,33,35),(3,10,11),(4,12,13)); lvl=3; h,r-ind=1,1
        [3,3]((4,13,14),(5,16,17),(10,33,35)); lvl=4; h,r-ind=1,1
        [3,3]((9,30,32),(4,13,14),(10,33,35)); lvl=4; h,r-ind=1,1
        [3,3]((8,27,29),(9,30,32),(4,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((8,27,29),(3,10,11),(4,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,14),(4,12,13),(5,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,11),(4,13,14),(4,12,13)); lvl=4; h,r-ind=1,1
      [4,3]((4,14,15),(8,27,29),(3,11,12),(3,10,11)); lvl=3; h,r-ind=1,1
        [3,3]((7,24,26),(3,10,11),(8,27,29)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,15),(7,24,26),(8,27,29)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,15),(3,11,12),(7,24,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,12),(7,24,26),(3,10,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(4,14,15),(3,11,12)); lvl=3; h,r-ind=1,1
      [5,3]((1,4,4),(6,20,21),(4,14,15),(8,27,29),(10,33,35)); lvl=3; h,r-ind=1,1
        [3,3]((10,33,35),(9,30,32),(5,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((8,27,29),(9,30,32),(5,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,15),(8,27,29),(5,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(4,14,15),(5,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((6,20,21),(10,33,35),(5,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(6,20,21),(5,17,18)); lvl=4; h,r-ind=1,1
      [4,3]((6,20,21),(5,16,17),(10,33,35),(1,3,3)); lvl=3; h,r-ind=1,1
        [3,3]((10,33,35),(11,36,38),(5,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(11,36,38),(5,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((6,20,21),(10,33,35),(11,36,38)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(6,20,21),(11,36,38)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,4),(0,1,0),(6,20,21),(1,3,3)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((0,1,0),(2,7,7),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((6,20,21),(2,7,7),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(0,1,0),(2,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((6,20,21),(1,4,4),(2,7,7)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,0),(3,8,10),(2,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,5),(5,10,12),(3,8,10),(2,5,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,6),(5,10,12),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(5,10,12),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(2,5,6),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,8,10),(4,9,11)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((1,1,1),(5,10,12),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,4,5),(1,1,1),(5,10,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,6),(2,4,5),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,5,6),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,5,6),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [5,3]((5,16,20),(5,17,20),(3,8,10),(2,5,6),(5,13,15)); lvl=1; h,r-ind=1,1
    [4,3]((2,6,7),(7,20,24),(2,5,6),(5,13,15)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((4,11,13),(2,5,6),(7,20,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(4,11,13),(7,20,24)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,15),(4,11,13),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(5,13,15),(4,11,13)); lvl=3; h,r-ind=1,1
    [4,3]((7,20,24),(5,14,17),(10,29,35),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((10,29,35),(5,14,17),(12,34,41)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(5,14,17),(12,34,41)); lvl=3; h,r-ind=1,1
      [3,3]((7,20,24),(10,29,35),(12,34,41)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(7,20,24),(12,34,41)); lvl=3; h,r-ind=1,1
    [3,3]((5,14,17),(3,8,10),(2,5,6)); lvl=2; h,r-ind=1,1
    [5,3]((4,12,15),(5,14,17),(10,29,35),(8,24,29),(3,8,10)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,10),(3,9,11),(4,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(11,31,38),(3,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(5,14,17),(11,31,38)); lvl=3; h,r-ind=1,1
      [4,3]((5,14,17),(11,31,38),(18,52,63),(3,9,11)); lvl=3; h,r-ind=1,1
        [3,3]((8,23,28),(11,31,38),(3,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((18,52,63),(8,23,28),(3,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((5,14,17),(8,23,28),(11,31,38)); lvl=4; h,r-ind=1,1
        [3,3]((5,14,17),(18,52,63),(8,23,28)); lvl=4; h,r-ind=1,1
      [4,3]((10,29,35),(18,52,63),(3,9,11),(8,24,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((18,52,63),(13,38,46),(3,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((8,24,29),(13,38,46),(3,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((10,29,35),(8,24,29),(13,38,46)); lvl=4; h,r-ind=1,1
        [3,3]((10,29,35),(18,52,63),(13,38,46)); lvl=4; h,r-ind=1,1
      [3,3]((5,14,17),(10,29,35),(18,52,63)); lvl=3; h,r-ind=1,1
    [5,3]((5,16,20),(6,19,23),(7,23,28),(4,12,15),(8,24,29)); lvl=2; h,r-ind=1,1
      [4,3]((19,60,73),(6,19,23),(3,9,11),(8,24,29)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((9,28,34),(3,9,11),(8,24,29)); lvl=4; h,r-ind=1,1
        [3,3]((6,19,23),(9,28,34),(8,24,29)); lvl=4; h,r-ind=1,1
        [3,3]((19,60,73),(9,28,34),(3,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((6,19,23),(19,60,73),(9,28,34)); lvl=4; h,r-ind=1,1
      [4,3]((4,13,16),(10,32,39),(19,60,73),(3,9,11)); lvl=3; h,r-ind=1,1
        [3,3]((13,41,50),(19,60,73),(10,32,39)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,16),(13,41,50),(10,32,39)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,11),(4,13,16),(13,41,50)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,11),(13,41,50),(19,60,73)); lvl=4; h,r-ind=1,1
      [4,3]((5,16,20),(4,13,16),(4,12,15),(3,9,11)); lvl=3; h,r-ind=1,1
        [3,3]((3,9,11),(4,12,15),(8,25,31)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,20),(4,12,15),(8,25,31)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,16),(5,16,20),(8,25,31)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,16),(3,9,11),(8,25,31)); lvl=4; h,r-ind=1,1
      [3,3]((7,23,28),(4,13,16),(10,32,39)); lvl=3; h,r-ind=1,1
      [4,3]((7,23,28),(10,32,39),(19,60,73),(6,19,23)); lvl=3; h,r-ind=1,1
        [3,3]((16,51,62),(10,32,39),(19,60,73)); lvl=4; h,r-ind=1,1
        [3,3]((6,19,23),(16,51,62),(19,60,73)); lvl=4; h,r-ind=1,1
        [3,3]((7,23,28),(16,51,62),(10,32,39)); lvl=4; h,r-ind=1,1
        [3,3]((6,19,23),(7,23,28),(16,51,62)); lvl=4; h,r-ind=1,1
    [4,3]((2,6,7),(7,20,24),(10,29,35),(8,24,29)); lvl=2; h,r-ind=1,1
      [3,3]((7,20,24),(10,29,35),(22,64,77)); lvl=3; h,r-ind=1,1
      [4,3]((8,24,29),(5,15,18),(10,29,35),(22,64,77)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,15,18),(22,64,77),(15,44,53)); lvl=4; h,r-ind=1,1
        [3,3]((10,29,35),(22,64,77),(15,44,53)); lvl=4; h,r-ind=1,1
        [3,3]((8,24,29),(10,29,35),(15,44,53)); lvl=4; h,r-ind=1,1
        [3,3]((8,24,29),(5,15,18),(15,44,53)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,7),(5,15,18),(7,20,24),(22,64,77)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,15,18),(22,64,77),(12,35,42)); lvl=4; h,r-ind=1,1
        [3,3]((7,20,24),(22,64,77),(12,35,42)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(5,15,18),(12,35,42)); lvl=4; h,r-ind=1,1
        [3,3]((7,20,24),(2,6,7),(12,35,42)); lvl=4; h,r-ind=1,1
    [4,3]((6,19,23),(2,6,7),(3,10,12),(8,24,29)); lvl=2; h,r-ind=1,1
      [4,3]((14,44,53),(5,15,18),(2,6,7),(3,10,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,25,30),(5,15,18),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,12),(8,25,30),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((14,44,53),(8,25,30),(5,15,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,12),(14,44,53),(8,25,30)); lvl=4; h,r-ind=1,1
      [3,3]((6,19,23),(14,44,53),(3,10,12)); lvl=3; h,r-ind=1,1
      [4,3]((6,19,23),(14,44,53),(8,24,29),(5,15,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((11,34,41),(5,15,18),(8,24,29)); lvl=4; h,r-ind=1,1
        [3,3]((6,19,23),(11,34,41),(8,24,29)); lvl=4; h,r-ind=1,1
        [3,3]((14,44,53),(11,34,41),(5,15,18)); lvl=4; h,r-ind=1,1
        [3,3]((6,19,23),(14,44,53),(11,34,41)); lvl=4; h,r-ind=1,1
```

```
    [3,3]((2,6,7),(5,17,20),(3,10,12)); lvl=2; h,r-ind=1,1
    [3,3]((6,19,23),(7,23,28),(3,10,12)); lvl=2; h,r-ind=1,1
```

20.55 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,17,20)); lvl=0; h,r-ind=20,80
  [4,3]((3,8,9),(3,7,8),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,8),(1,1,1),(4,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,1,1),(4,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(1,2,2),(4,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(3,7,8),(4,9,10)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,8),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,6,7),(3,7,8),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,17,20),(2,6,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,11,12),(3,8,9),(1,2,2)); lvl=1; h,r-ind=3,3
    [3,3]((1,3,3),(6,19,21),(3,8,9)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,2,2),(1,3,3),(3,8,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(3,11,12),(1,4,4),(6,19,21)); lvl=2; h,r-ind=1,1
      [4,3]((3,10,11),(1,4,4),(3,11,12),(5,17,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,12),(1,4,4),(4,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((5,17,18),(1,4,4),(4,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,11),(5,17,18),(4,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,11),(3,11,12),(4,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(3,10,11),(5,17,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,10,11),(6,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,4,4),(5,17,18)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(0,1,0),(1,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((2,6,7),(3,8,9),(3,7,8)); lvl=1; h,r-ind=1,1
  [4,3]((2,7,8),(3,11,12),(2,6,7),(3,8,9)); lvl=1; h,r-ind=1,1
    [4,3]((9,29,33),(2,6,7),(6,19,21),(3,8,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((3,9,10),(12,37,42),(2,6,7),(3,8,9)); lvl=3; h,r-ind=1,3
        [3,3]((12,37,42),(5,15,17),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(5,15,17),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,10),(3,8,9),(5,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,10),(12,37,42),(5,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,16,18),(3,9,10),(12,37,42)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((5,16,18),(6,19,21),(3,9,10)); lvl=3; h,r-ind=1,1
      [4,3]((9,29,33),(5,16,18),(12,37,42),(2,6,7)); lvl=3; h,r-ind=1,3
        [3,3]((7,22,25),(5,16,18),(12,37,42)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(7,22,25),(12,37,42)); lvl=4; h,r-ind=1,1
        [3,3]((9,29,33),(7,22,25),(5,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(9,29,33),(7,22,25)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,8),(9,29,33),(3,11,12),(6,19,21)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((5,16,18),(3,10,11),(6,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((12,40,45),(5,16,18),(3,10,11)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((3,11,12),(2,7,8),(12,40,45),(3,10,11)); lvl=3; h,r-ind=1,3
        [3,3]((5,17,19),(2,7,8),(12,40,45)); lvl=4; h,r-ind=1,1
        [3,3]((5,17,19),(3,10,11),(12,40,45)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,12),(5,17,19),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,12),(5,17,19),(2,7,8)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,8),(9,29,33),(12,40,45),(5,16,18)); lvl=3; h,r-ind=1,3
        [3,3]((7,23,26),(9,29,33),(5,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((12,40,45),(7,23,26),(5,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(12,40,45),(7,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(7,23,26),(9,29,33)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,8),(9,29,33),(2,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((5,17,20),(2,7,8),(2,6,7)); lvl=1; h,r-ind=1,1
```

20.56 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,18,20)); lvl=0; h,r-ind=20,40
  [3,3]((1,2,2),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(1,4,4),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,2,2),(4,12,13),(4,15,16),(1,4,4)); lvl=1; h,r-ind=1,1
    [4,3]((1,4,4),(1,3,3),(4,15,16),(8,27,29)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(4,14,15),(6,21,22)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,4),(4,15,16),(4,14,15),(6,21,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,18,19),(4,15,16),(4,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((6,21,22),(5,18,19),(4,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(6,21,22),(5,18,19)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((1,4,4),(5,18,19),(4,15,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(6,21,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(8,27,29),(4,14,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(1,3,3),(4,12,13),(8,27,29)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,14),(1,3,3),(8,27,29)); lvl=3; h,r-ind=1,1
      [3,3]((6,18,19),(4,13,14),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(6,18,19),(1,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(6,18,19),(4,13,14),(4,12,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,18,19),(5,15,16),(4,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,12,13),(5,15,16),(4,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(6,18,19),(5,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,12,13),(1,2,2),(5,15,16)); lvl=4; h,r-ind=1,1
  [3,3]((5,18,20),(4,12,13),(4,15,16)); lvl=1; h,r-ind=9,3; optimized-h
  [4,3]((1,2,2),(4,11,12),(4,12,13),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((4,12,13),(4,11,12),(5,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(4,11,12),(5,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,1,1),(5,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(4,12,13),(5,13,14)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(4,11,12),(3,9,10),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((4,10,11),(3,9,10),(4,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(4,10,11),(4,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(4,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(4,10,11),(3,9,10)); lvl=2; h,r-ind=1,1
  [4,3]((5,18,20),(4,11,12),(4,12,13),(3,9,10)); lvl=1; h,r-ind=1,1
    [4,3]((3,10,11),(10,30,33),(4,11,12),(4,12,13)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,21,23),(4,11,12),(10,30,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,11),(7,21,23),(10,30,33)); lvl=3; h,r-ind=1,1
      [3,3]((4,12,13),(7,21,23),(4,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,11),(4,12,13),(7,21,23)); lvl=3; h,r-ind=1,1
    [3,3]((3,9,10),(3,10,11),(10,30,33)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,10),(3,10,11),(5,18,20)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,10),(10,30,33),(4,11,12)); lvl=2; h,r-ind=1,1
```

20.57 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,19,20)); lvl=0; h,r-ind=20,80
  [3,3]((1,2,2),(0,1,0),(1,4,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((5,19,20),(1,2,2),(1,4,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,1,1),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,19,20),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(5,19,20),(1,1,1)); lvl=1; h,r-ind=1,1
```

20.58 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,9,20)); lvl=0; h,r-ind=20,200
  [4,3]((5,7,15),(7,10,22),(1,1,2),(5,6,13)); lvl=1; h,r-ind=1,1
    [3,3]((8,11,24),(7,10,22),(5,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((8,11,24),(1,1,2),(5,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,15),(8,11,24),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,15),(8,11,24),(7,10,22)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(5,6,13)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(6,9,20),(7,10,22),(5,6,13)); lvl=1; h,r-ind=1,2
    [3,3]((4,5,11),(6,9,20),(7,10,22)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,13),(4,5,11),(7,10,22)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(5,6,13),(4,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(4,5,11),(6,9,20)); lvl=2; h,r-ind=1,1
  [4,3]((6,9,20),(2,3,6),(5,7,15),(7,10,22)); lvl=1; h,r-ind=1,1
    [4,3]((4,6,13),(16,23,50),(5,7,15),(2,3,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((9,13,28),(5,7,15),(16,23,50)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(9,13,28),(16,23,50)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(9,13,28),(5,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(2,3,6),(9,13,28)); lvl=3; h,r-ind=1,1
    [3,3]((7,10,22),(16,23,50),(5,7,15)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,13),(6,9,20),(7,10,22),(16,23,50)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((11,16,35),(7,10,22),(6,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(11,16,35),(6,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((16,23,50),(11,16,35),(7,10,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(16,23,50),(11,16,35)); lvl=3; h,r-ind=1,1
  [3,3]((6,9,20),(2,3,6),(3,5,10)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(2,3,6),(3,5,10)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,3,6),(5,7,15),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,6),(2,3,5),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,2),(2,3,5),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((2,3,4),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,4),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(1,2,2),(2,2,3)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,1),(0,1,0),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,6),(1,2,2),(2,3,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(2,3,6),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,8),(2,3,6),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,8),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,8),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,2),(1,2,3),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
```

20.59 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,11,20)); lvl=0; h,r-ind=20,200
  [4,3]((4,5,8),(3,3,5),(1,0,0),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(1,0,0),(3,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,8),(2,2,3),(3,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,8),(5,7,10),(2,2,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,1,1),(1,2,2),(5,7,10),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(1,2,2),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(1,2,2),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,8),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(5,6,8),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(1,2,2)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(5,7,10),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(2,2,3),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((4,5,8),(2,3,5),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,8),(5,7,10),(2,3,5),(7,11,17)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((2,3,5),(11,16,25),(4,6,9),(7,11,17)); lvl=3; h,r-ind=1,3
        [3,3]((11,16,25),(6,9,14),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((7,11,17),(6,9,14),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(7,11,17),(6,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(11,16,25),(6,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(11,16,25),(4,6,9)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((3,4,6),(5,7,10),(4,6,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,5),(4,5,8),(3,4,6),(11,16,25)); lvl=3; h,r-ind=1,3
        [3,3]((5,7,11),(3,4,6),(4,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(5,7,11),(4,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((11,16,25),(5,7,11),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(11,16,25),(5,7,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,2),(5,7,10),(1,2,3),(7,11,17)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,2,3),(8,13,19),(4,6,9),(7,11,17)); lvl=3; h,r-ind=1,3
        [3,3]((5,8,12),(8,13,19),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((7,11,17),(5,8,12),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(7,11,17),(5,8,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(5,8,12),(8,13,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(8,13,19),(4,6,9)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,3),(1,2,2),(2,3,4),(8,13,19)); lvl=3; h,r-ind=1,3
        [3,3]((1,2,2),(3,5,7),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((8,13,19),(3,5,7),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,2,2),(3,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((8,13,19),(1,2,3),(3,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(4,6,9),(5,7,10)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((4,5,8),(3,3,5),(2,3,5),(5,7,12)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,10),(3,3,5),(5,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,10),(2,3,5),(5,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,8),(5,6,10),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,8),(5,6,10),(3,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,5),(1,2,3),(4,7,12)); lvl=1; h,r-ind=1,1
  [3,3]((5,9,16),(1,2,3),(4,7,12)); lvl=1; h,r-ind=1,1
```

```
  [4,3]((6,11,20),(5,9,16),(3,6,10),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((7,13,23),(3,6,10),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,16),(7,13,23),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,20),(5,9,16),(7,13,23)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,20),(7,13,23),(3,6,10)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,6,10),(1,2,3)); lvl=1; h,r-ind=1,1
  [5,3]((5,9,16),(3,5,9),(2,3,5),(5,7,12),(4,7,12)); lvl=1; h,r-ind=1,1
    [4,3]((9,15,26),(5,8,14),(12,20,35),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((12,20,35),(5,8,14),(14,23,40)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,8,14),(14,23,40)); lvl=3; h,r-ind=1,1
      [3,3]((9,15,26),(12,20,35),(14,23,40)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(9,15,26),(14,23,40)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,12),(5,8,14),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,9),(5,7,12),(5,8,14)); lvl=2; h,r-ind=1,1
    [3,3]((9,15,26),(4,7,12),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,9),(5,8,14),(12,20,35),(10,17,30)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,14),(12,20,35),(15,25,44)); lvl=3; h,r-ind=1,1
      [3,3]((10,17,30),(12,20,35),(15,25,44)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(10,17,30),(15,25,44)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(5,8,14),(15,25,44)); lvl=3; h,r-ind=1,1
    [5,3]((5,9,16),(9,15,26),(4,7,12),(12,20,35),(10,17,30)); lvl=2; h,r-ind=1,1
      [3,3]((5,9,16),(4,7,12),(7,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((9,15,26),(4,7,12),(7,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((9,15,26),(12,20,35),(7,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((10,17,30),(5,9,16),(7,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((12,20,35),(10,17,30),(7,12,21)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,9),(5,9,16),(10,17,30)); lvl=2; h,r-ind=1,1
  [3,3]((6,11,20),(5,9,16),(3,5,9)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,9),(3,3,5),(5,7,12),(1,0,0)); lvl=1; h,r-ind=1,2
    [3,3]((3,4,7),(5,7,12),(3,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,4,7),(3,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,9),(1,0,0),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,9),(3,4,7),(5,7,12)); lvl=2; h,r-ind=1,1
  [3,3]((6,11,20),(3,5,9),(1,0,0)); lvl=1; h,r-ind=1,1
```

20.60 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,13,20)); lvl=0; h,r-ind=20,200
  [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(2,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((6,13,20),(1,0,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,7,10),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((6,13,20),(3,7,10),(1,2,3)); lvl=1; h,r-ind=1,1
```

20.61 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,15,20)); lvl=0; h,r-ind=20,40
  [4,3]((1,1,1),(1,0,0),(7,15,20),(5,11,14)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(3,6,8),(5,9,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(2,4,5),(1,0,0),(5,9,12)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,4,5),(5,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,10),(2,3,4),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(5,8,10),(2,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(5,8,10),(2,3,4),(1,0,0)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(5,8,10),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(5,8,10)); lvl=4; h,r-ind=1,1
    [3,3]((6,13,17),(2,4,5),(3,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,17),(7,15,20),(3,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,17),(5,11,14),(2,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((6,15,20),(2,5,6),(7,15,20),(5,11,14)); lvl=1; h,r-ind=2,1
    [3,3]((3,7,9),(2,5,6),(5,11,14)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,17),(3,7,9),(5,11,14)); lvl=2; h,r-ind=1,1
    [4,3]((7,15,20),(4,9,12),(6,13,17),(3,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((10,22,29),(3,7,9),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,20),(10,22,29),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,17),(10,22,29),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,20),(6,13,17),(10,22,29)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,12),(3,7,9),(9,21,28)); lvl=2; h,r-ind=1,1
    [4,3]((6,15,20),(4,10,13),(3,7,9),(9,21,28)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((12,29,38),(3,7,9),(4,10,13)); lvl=3; h,r-ind=1,1
      [4,3]((6,15,20),(5,12,16),(12,29,38),(4,10,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,22,29),(5,12,16),(12,29,38)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,13),(9,22,29),(12,29,38)); lvl=4; h,r-ind=1,1
        [3,3]((6,15,20),(9,22,29),(5,12,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,13),(6,15,20),(9,22,29)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,16),(12,29,38),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((9,21,28),(5,12,16),(3,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((4,10,13),(3,7,9),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((6,15,20),(3,8,10),(2,5,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(3,8,10),(2,5,6)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((2,5,6),(1,1,1),(1,2,2),(5,11,14)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,5),(1,2,2),(5,11,13),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,6,7),(1,2,2),(5,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,6,7),(5,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,6,7),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,1,1),(3,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,4,5),(5,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(2,4,5),(5,11,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(1,2,2),(5,11,13)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,6),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
```

20.62 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,19,20)); lvl=0; h,r-ind=20,200
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((6,19,20),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(6,19,20),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,10,10),(0,1,0),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((6,19,20),(3,10,10),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((6,19,20),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
```

20.63 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,9,20)); lvl=0; h,r-ind=20,100
  [3,3]((0,1,0),(4,5,10),(1,1,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((8,9,20),(4,5,10),(1,1,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((8,9,20),(6,6,13),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(6,6,13),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(8,9,20),(6,6,13)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
```

20.64 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,11,20)); lvl=0; h,r-ind=20,100
  [4,3]((2,2,3),(2,3,3),(4,5,7),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,8),(3,4,5),(4,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(5,6,8),(8,9,12),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((7,8,11),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(7,8,11),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,7),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(7,8,11),(8,9,12)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,8),(8,9,12),(1,1,1),(3,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,9),(1,1,1),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(6,7,9),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(3,4,5),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(6,7,9),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(3,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(8,9,12),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,3,4),(1,1,1),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,3,4),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,3,4),(1,0,0)); lvl=3; h,r-ind=1,1
  [3,3]((2,2,3),(3,3,5),(1,0,0)); lvl=1; h,r-ind=1,1
```

```
[5,3]((3,3,5),(4,5,9),(11,13,22),(7,9,16),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((14,17,30),(7,9,16),(4,5,9)); lvl=2; h,r-ind=1,1
  [4,3]((14,17,30),(7,8,14),(17,20,35),(4,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((21,25,44),(7,8,14),(17,20,35)); lvl=3; h,r-ind=1,1
    [3,3]((14,17,30),(21,25,44),(17,20,35)); lvl=3; h,r-ind=1,1
    [3,3]((21,25,44),(4,5,9),(7,8,14)); lvl=3; h,r-ind=1,1
    [3,3]((14,17,30),(21,25,44),(4,5,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(7,8,14),(4,5,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,0,0),(7,8,14),(10,11,19),(7,7,12)); lvl=2; h,r-ind=1,1
    [4,3]((7,8,14),(4,4,7),(10,11,19),(21,22,38)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,4,7),(21,22,38),(14,15,26)); lvl=4; h,r-ind=1,1
      [3,3]((10,11,19),(21,22,38),(14,15,26)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,14),(10,11,19),(14,15,26)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,14),(4,4,7),(14,15,26)); lvl=4; h,r-ind=1,1
    [3,3]((7,7,12),(10,11,19),(21,22,38)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(7,7,12),(4,4,7),(21,22,38)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((7,7,12),(21,22,38),(11,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((4,4,7),(21,22,38),(11,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(4,4,7),(11,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(7,7,12),(11,11,19)); lvl=4; h,r-ind=1,1
  [3,3]((3,3,5),(1,0,0),(7,7,12)); lvl=2; h,r-ind=1,1
  [5,3]((14,17,30),(17,20,35),(6,7,12),(7,9,16),(9,11,19)); lvl=2; h,r-ind=1,1
    [4,3]((7,9,16),(19,23,40),(23,28,49),(9,11,19)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((23,28,49),(19,23,40),(13,16,28)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,19),(19,23,40),(13,16,28)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,16),(9,11,19),(13,16,28)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,16),(23,28,49),(13,16,28)); lvl=4; h,r-ind=1,1
    [3,3]((10,12,21),(7,9,16),(23,28,49)); lvl=3; h,r-ind=1,1
    [3,3]((14,17,30),(10,12,21),(7,9,16)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,12),(19,23,40),(9,11,19)); lvl=3; h,r-ind=1,1
    [4,3]((10,12,21),(6,7,12),(19,23,40),(23,28,49)); lvl=3; h,r-ind=1,1
      [3,3]((29,35,61),(19,23,40),(6,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((10,12,21),(29,35,61),(6,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((23,28,49),(10,12,21),(29,35,61)); lvl=4; h,r-ind=1,1
      [3,3]((23,28,49),(29,35,61),(19,23,40)); lvl=4; h,r-ind=1,1
    [3,3]((10,12,21),(17,20,35),(6,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((14,17,30),(10,12,21),(17,20,35)); lvl=3; h,r-ind=1,1
  [4,3]((7,8,14),(17,20,35),(10,11,19),(6,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((13,15,26),(6,7,12),(17,20,35)); lvl=3; h,r-ind=1,1
    [3,3]((7,8,14),(13,15,26),(17,20,35)); lvl=3; h,r-ind=1,1
    [3,3]((7,8,14),(10,11,19),(13,15,26)); lvl=3; h,r-ind=1,1
    [3,3]((10,11,19),(13,15,26),(6,7,12)); lvl=3; h,r-ind=1,1
  [4,3]((3,3,5),(10,11,19),(7,7,12),(6,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((7,7,12),(10,11,19),(13,14,24)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,12),(10,11,19),(13,14,24)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,5),(7,7,12),(13,14,24)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,12),(3,3,5),(13,14,24)); lvl=3; h,r-ind=1,1
  [3,3]((6,7,12),(11,13,22),(9,11,19)); lvl=2; h,r-ind=1,1
  [3,3]((3,3,5),(6,7,12),(11,13,22)); lvl=2; h,r-ind=1,1
[3,3]((8,11,20),(4,5,9),(1,0,0)); lvl=1; h,r-ind=1,1
[3,3]((8,11,20),(4,5,9),(7,9,16)); lvl=1; h,r-ind=1,1
[5,3]((2,2,3),(3,3,5),(11,13,22),(3,4,6),(4,5,7)); lvl=1; h,r-ind=1,1
  [5,3]((13,15,24),(14,15,24),(9,11,18),(5,6,10),(3,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((7,8,13),(3,3,5),(19,21,34)); lvl=3; h,r-ind=1,1
    [4,3]((14,15,24),(9,10,16),(3,3,5),(19,21,34)); lvl=3; h,r-ind=1,1
      [3,3]((12,13,21),(9,10,16),(19,21,34)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,5),(12,13,21),(19,21,34)); lvl=4; h,r-ind=1,1
      [3,3]((14,15,24),(12,13,21),(9,10,16)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,5),(14,15,24),(12,13,21)); lvl=4; h,r-ind=1,1
    [3,3]((9,10,16),(7,8,13),(19,21,34)); lvl=3; h,r-ind=1,1
    [4,3]((13,15,24),(9,10,16),(11,13,21),(7,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,16),(7,8,13),(20,23,37)); lvl=4; h,r-ind=1,1
      [3,3]((11,13,21),(7,8,13),(20,23,37)); lvl=4; h,r-ind=1,1
      [3,3]((13,15,24),(9,10,16),(20,23,37)); lvl=4; h,r-ind=1,1
      [3,3]((11,13,21),(13,15,24),(20,23,37)); lvl=4; h,r-ind=1,1
    [3,3]((9,11,18),(11,13,21),(7,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,10),(7,8,13),(3,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((9,11,18),(5,6,10),(7,8,13)); lvl=3; h,r-ind=1,1
  [3,3]((11,13,22),(5,6,10),(3,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,2,3),(14,15,24),(3,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((5,6,9),(13,15,24),(3,4,6),(9,11,18)); lvl=2; h,r-ind=3,1; alert-h-inc
    [3,3]((4,5,8),(11,13,21),(9,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,11),(4,5,8),(11,13,21)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,11),(13,15,24),(11,13,21)); lvl=3; h,r-ind=1,1
    [4,3]((6,7,11),(5,6,9),(3,4,6),(4,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,17),(3,4,6),(5,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,11),(9,11,17),(5,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(9,11,17),(3,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,11),(4,5,8),(9,11,17)); lvl=4; h,r-ind=1,1
  [3,3]((5,6,9),(4,5,7),(3,4,6)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((2,2,3),(5,6,9),(4,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(5,6,9),(13,15,24),(14,15,24)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((9,10,16),(6,7,11),(13,15,24)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,16),(19,21,33),(6,7,11)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((2,2,3),(5,6,9),(19,21,33),(6,7,11)); lvl=3; h,r-ind=1,3
        [3,3]((8,9,14),(6,7,11),(5,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(8,9,14),(5,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((19,21,33),(8,9,14),(6,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(19,21,33),(8,9,14)); lvl=4; h,r-ind=1,1
      [4,3]((14,15,24),(2,2,3),(9,10,16),(19,21,33)); lvl=3; h,r-ind=1,3
        [3,3]((2,2,3),(19,21,33),(11,12,19)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,16),(19,21,33),(11,12,19)); lvl=4; h,r-ind=1,1
        [3,3]((14,15,24),(9,10,16),(11,12,19)); lvl=4; h,r-ind=1,1
        [3,3]((14,15,24),(2,2,3),(11,12,19)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,5),(11,13,22),(3,4,6),(7,9,16)); lvl=1; h,r-ind=1,1
    [3,3]((9,11,19),(11,13,22),(5,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,7),(9,11,19),(5,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,7),(9,11,18),(5,6,10)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,5),(3,4,7),(3,4,6),(9,11,18)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,7),(4,5,8),(9,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,7),(9,12,20),(4,5,8)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,6),(2,3,5),(9,12,20),(4,5,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,5),(9,12,20),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(9,12,20),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(2,3,5),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(3,4,6),(6,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(3,4,7),(9,12,20)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,7),(9,11,19),(7,9,16)); lvl=2; h,r-ind=1,1
  [3,3]((8,11,20),(2,3,5),(7,9,16)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(2,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,2,2),(3,4,6),(2,3,3),(4,5,7)); lvl=1; h,r-ind=2,1
    [4,3]((3,4,6),(2,3,4),(3,4,5),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((6,8,11),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(6,8,11),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(6,8,11),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(4,5,7),(6,8,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,3),(1,2,2),(2,3,4),(3,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((4,6,7),(2,3,4),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(4,6,7),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(4,6,7),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,5),(4,6,7)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,5),(1,2,2),(3,4,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(2,3,5),(1,2,2)); lvl=1; h,r-ind=1,1
```

20.65 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,15,20)); lvl=0; h,r-ind=20,20
  [4,3]((2,3,4),(7,12,16),(3,5,6),(4,7,9)); lvl=1; h,r-ind=1,1
    [3,3]((7,12,16),(6,10,13),(4,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(6,10,13),(4,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,5,6),(6,10,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(7,12,16),(6,10,13)); lvl=2; h,r-ind=1,1
  [4,3]((2,4,5),(4,7,8),(3,5,6),(4,7,9)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,6),(5,9,11),(4,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(5,9,11),(4,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(2,4,5),(5,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(3,5,6),(5,9,11)); lvl=2; h,r-ind=1,1
  [3,3]((2,4,5),(0,1,0),(4,7,8)); lvl=1; h,r-ind=4,4; optimized-h
  [4,3]((8,15,20),(2,4,5),(7,12,16),(4,7,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(11,20,26),(4,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((5,9,12),(7,12,16),(11,20,26),(4,7,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((9,16,21),(4,7,9),(7,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,12),(9,16,21),(7,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((11,20,26),(9,16,21),(4,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,12),(11,20,26),(9,16,21)); lvl=3; h,r-ind=1,1
    [3,3]((5,9,12),(2,4,5),(11,20,26)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,12),(8,15,20),(2,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,1),(1,0,0),(2,3,4),(3,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,5),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,4,5),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,5,6),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(2,3,4),(3,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((4,7,8),(1,1,1),(2,3,3),(3,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(1,1,1),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(3,5,6),(5,8,9)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((4,7,8),(2,3,3),(5,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(4,7,8),(2,3,3)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
```

20.66 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,17,20)); lvl=0; h,r-ind=20,100
  [4,3]((5,9,10),(4,7,8),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,8),(1,1,1),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,10),(4,7,8),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(5,9,10),(6,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((5,9,10),(4,8,9),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((4,8,9),(1,2,2),(6,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(6,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,10),(4,8,9),(6,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(5,9,10),(6,11,12)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((3,6,7),(5,9,10),(4,7,8),(4,8,9)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,8),(8,15,17),(5,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,9),(8,15,17),(5,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(4,7,8),(8,15,17)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,9),(3,6,7),(8,15,17)); lvl=2; h,r-ind=1,1
  [4,3]((4,8,9),(0,1,0),(4,9,10),(1,2,2)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,2),(6,13,14),(0,1,0),(2,5,5)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,7,7),(2,5,5),(6,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,7,7),(6,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(3,7,7),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(0,1,0),(3,7,7)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,10),(6,13,14),(2,5,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,8,9),(4,9,10),(6,13,14)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,8,9),(1,2,2),(6,13,14)); lvl=2; h,r-ind=1,1
  [4,3]((8,17,20),(3,6,7),(4,8,9),(4,9,10)); lvl=1; h,r-ind=1,1
    [3,3]((10,21,24),(4,8,9),(3,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((8,17,20),(6,13,15),(10,21,24),(3,6,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,13,15),(10,21,24),(9,19,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(10,21,24),(9,19,22)); lvl=3; h,r-ind=1,1
      [3,3]((8,17,20),(6,13,15),(9,19,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(8,17,20),(9,19,22)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,10),(6,13,15),(10,21,24)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,9,10),(10,21,24),(4,8,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((4,7,8),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,7),(4,7,8),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((8,17,20),(3,6,7),(1,0,0)); lvl=1; h,r-ind=1,1
```

20.67 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,19,20)); lvl=0; h,r-ind=20,100
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((8,19,20),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((8,19,20),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(2,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(0,1,0),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((8,19,20),(1,2,2),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((8,19,20),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
```

20.68 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,9,20)); lvl=0; h,r-ind=20,400
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((6,6,13),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(6,6,13),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,11),(6,6,13),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((9,9,20),(5,5,11),(1,0,0)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((0,1,0),(9,9,20),(5,5,11)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,5,11),(6,6,13)); lvl=1; h,r-ind=1,1
```

20.69 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,10,20)); lvl=0; h,r-ind=20,40
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,2),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,2,2),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(6,8,13),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(9,10,20),(6,8,13)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((6,8,13),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((9,10,20),(6,8,13),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
```

20.70 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,12,20)); lvl=0; h,r-ind=20,100
  [5,3]((2,3,4),(3,3,4),(1,1,1),(2,3,3),(5,7,10)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,5),(2,3,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,5),(9,12,16),(10,13,17),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((12,16,21),(9,12,16),(10,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(12,16,21),(10,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(12,16,21),(9,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(12,16,21)); lvl=3; h,r-ind=1,1
    [4,3]((6,8,11),(5,7,10),(9,12,16),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(5,7,10),(8,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,11),(5,7,10),(8,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,11),(9,12,16),(8,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,16),(2,3,4),(8,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,7),(6,8,11),(5,7,10)); lvl=2; h,r-ind=1,1
    [6,3]((4,5,7),(6,8,11),(9,12,16),(10,13,17),(5,6,8),(8,10,13)); lvl=2; h,r-ind=1,1
      [3,3]((9,12,16),(7,9,12),(6,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(7,9,12),(6,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(7,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,16),(7,9,12),(10,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,12),(10,13,17),(8,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,12),(5,6,8),(8,10,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,4),(4,5,7),(5,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,5),(10,13,17),(8,10,13),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((8,10,13),(10,13,17),(11,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(10,13,17),(11,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(11,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(8,10,13),(11,14,18)); lvl=3; h,r-ind=1,1
    [4,3]((3,3,4),(5,6,8),(8,10,13),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,8),(8,10,13),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(8,10,13),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(5,6,8),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,3,4),(6,7,9)); lvl=3; h,r-ind=1,1
  [5,3]((5,7,11),(11,15,24),(6,9,13),(2,3,4),(5,7,10)); lvl=1; h,r-ind=1,1
    [3,3]((7,10,15),(6,9,13),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((17,24,36),(22,31,47),(7,10,15),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((22,31,47),(7,10,15),(24,34,51)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(7,10,15),(24,34,51)); lvl=3; h,r-ind=1,1
      [3,3]((17,24,36),(22,31,47),(24,34,51)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(17,24,36),(24,34,51)); lvl=3; h,r-ind=1,1
    [4,3]((17,24,36),(10,14,21),(5,7,10),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((12,17,25),(5,7,10),(10,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((17,24,36),(12,17,25),(10,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((12,17,25),(2,3,4),(5,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((17,24,36),(12,17,25),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((10,14,21),(8,11,17),(5,7,10)); lvl=2; h,r-ind=1,1
    [6,3]((17,24,36),(10,14,21),(22,31,47),(20,28,43),(8,11,17),(13,18,28)); lvl=2; h,r-ind=1,1
      [3,3]((20,28,43),(15,21,32),(13,18,28)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,17),(15,21,32),(13,18,28)); lvl=3; h,r-ind=1,1
      [3,3]((10,14,21),(8,11,17),(15,21,32)); lvl=3; h,r-ind=1,1
      [3,3]((22,31,47),(20,28,43),(15,21,32)); lvl=3; h,r-ind=1,1
      [3,3]((17,24,36),(22,31,47),(15,21,32)); lvl=3; h,r-ind=1,1
      [3,3]((10,14,21),(17,24,36),(15,21,32)); lvl=3; h,r-ind=1,1
    [3,3]((11,15,24),(8,11,17),(13,18,28)); lvl=2; h,r-ind=1,1
    [4,3]((5,7,11),(22,31,47),(20,28,43),(7,10,15)); lvl=2; h,r-ind=1,1
      [3,3]((27,38,58),(22,31,47),(20,28,43)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(27,38,58),(20,28,43)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((27,38,58),(7,10,15),(22,31,47)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(27,38,58),(7,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,11),(7,10,15),(6,9,13)); lvl=2; h,r-ind=1,1
    [4,3]((5,7,11),(20,28,43),(11,15,24),(13,18,28)); lvl=2; h,r-ind=1,1
      [3,3]((20,28,43),(13,18,28),(18,25,39)); lvl=3; h,r-ind=1,1
      [3,3]((11,15,24),(13,18,28),(18,25,39)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(11,15,24),(18,25,39)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(20,28,43),(18,25,39)); lvl=3; h,r-ind=1,1
  [3,3]((9,12,20),(5,7,11),(11,15,24)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(6,9,13),(2,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((5,7,11),(0,1,0),(6,9,13)); lvl=1; h,r-ind=1,1
  [3,3]((9,12,20),(5,7,11),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,4),(2,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,0,0),(5,6,10),(3,3,4),(5,7,10)); lvl=1; h,r-ind=2,1
    [4,3]((2,2,3),(4,5,7),(5,7,10),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,10),(4,5,7),(7,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,7),(7,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(2,2,3),(7,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,10),(7,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(7,9,14),(3,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(5,6,10),(7,9,14),(3,3,5)); lvl=2; h,r-ind=1,1
      [4,3]((3,3,5),(4,5,8),(9,10,16),(5,6,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,8,13),(4,5,8),(9,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,5),(7,8,13),(9,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,10),(7,8,13),(4,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,5),(5,6,10),(7,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(9,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,5),(2,2,3),(9,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(7,9,14),(4,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(3,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,3,4),(2,2,3),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((9,12,20),(11,15,24),(5,6,10),(5,7,10)); lvl=1; h,r-ind=2,1
    [4,3]((6,8,13),(3,4,6),(5,7,10),(8,11,17)); lvl=2; h,r-ind=1,1
      [3,3]((11,15,23),(5,7,10),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,13),(11,15,23),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,17),(6,8,13),(11,15,23)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,17),(11,15,23),(5,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((11,15,24),(6,8,13),(8,11,17)); lvl=2; h,r-ind=1,1
    [3,3]((9,12,20),(11,15,24),(6,8,13)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,14),(6,8,13),(3,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,10),(7,9,14),(7,9,15),(6,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((6,8,13),(4,5,8),(7,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((17,22,36),(6,8,13),(4,5,8)); lvl=3; h,r-ind=1,1
      [4,3]((5,6,10),(7,9,15),(17,22,36),(4,5,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,9,15),(17,22,36),(11,14,23)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(17,22,36),(11,14,23)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,10),(7,9,15),(11,14,23)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(5,6,10),(11,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,15),(17,22,36),(6,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((9,12,20),(7,9,15),(6,8,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
```

20.71 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,14,20)); lvl=0; h,r-ind=20,200
  [5,3]((9,13,18),(2,3,4),(7,11,15),(13,20,28),(10,15,21)); lvl=1; h,r-ind=1,1
    [4,3]((17,26,36),(27,41,57),(2,3,4),(12,18,25)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(12,18,25),(29,44,61)); lvl=3; h,r-ind=1,1
      [3,3]((27,41,57),(12,18,25),(29,44,61)); lvl=3; h,r-ind=1,1
      [3,3]((17,26,36),(27,41,57),(29,44,61)); lvl=3; h,r-ind=1,1
      [3,3]((17,26,36),(2,3,4),(29,44,61)); lvl=3; h,r-ind=1,1
    [3,3]((9,13,18),(2,3,4),(12,18,25)); lvl=2; h,r-ind=1,1
    [4,3]((10,15,21),(25,38,53),(27,41,57),(12,18,25)); lvl=2; h,r-ind=1,1
      [3,3]((37,56,78),(27,41,57),(25,38,53)); lvl=3; h,r-ind=1,1
      [3,3]((10,15,21),(37,56,78),(25,38,53)); lvl=3; h,r-ind=1,1
      [3,3]((12,18,25),(37,56,78),(27,41,57)); lvl=3; h,r-ind=1,1
      [3,3]((10,15,21),(12,18,25),(37,56,78)); lvl=3; h,r-ind=1,1
    [3,3]((9,13,18),(10,15,21),(12,18,25)); lvl=2; h,r-ind=1,1
    [4,3]((17,26,36),(13,20,28),(25,38,53),(27,41,57)); lvl=2; h,r-ind=1,1
      [4,3]((15,23,32),(67,102,142),(13,20,28),(25,38,53)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((40,61,85),(25,38,53),(67,102,142)); lvl=4; h,r-ind=1,1
        [3,3]((15,23,32),(40,61,85),(67,102,142)); lvl=4; h,r-ind=1,1
        [3,3]((13,20,28),(40,61,85),(25,38,53)); lvl=4; h,r-ind=1,1
        [3,3]((15,23,32),(13,20,28),(40,61,85)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((27,41,57),(67,102,142),(25,38,53)); lvl=3; h,r-ind=1,1
      [4,3]((17,26,36),(15,23,32),(27,41,57),(67,102,142)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((42,64,89),(15,23,32),(67,102,142)); lvl=4; h,r-ind=1,1
        [3,3]((42,64,89),(27,41,57),(67,102,142)); lvl=4; h,r-ind=1,1
        [3,3]((17,26,36),(42,64,89),(27,41,57)); lvl=4; h,r-ind=1,1
        [3,3]((17,26,36),(42,64,89),(15,23,32)); lvl=4; h,r-ind=1,1
    [3,3]((10,15,21),(13,20,28),(25,38,53)); lvl=2; h,r-ind=1,1
    [3,3]((7,11,15),(17,26,36),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((7,11,15),(17,26,36),(13,20,28)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((9,14,20),(8,12,17),(13,20,28),(10,15,21)); lvl=1; h,r-ind=1,1
    [3,3]((8,12,17),(10,15,21),(29,44,62)); lvl=2; h,r-ind=1,1
    [4,3]((13,20,28),(11,17,24),(10,15,21),(29,44,62)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((21,32,45),(11,17,24),(29,44,62)); lvl=3; h,r-ind=1,1
      [3,3]((21,32,45),(10,15,21),(29,44,62)); lvl=3; h,r-ind=1,1
      [3,3]((13,20,28),(21,32,45),(10,15,21)); lvl=3; h,r-ind=1,1
      [3,3]((13,20,28),(21,32,45),(11,17,24)); lvl=3; h,r-ind=1,1
    [4,3]((9,14,20),(11,17,24),(8,12,17),(29,44,62)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((11,17,24),(29,44,62),(19,29,41)); lvl=3; h,r-ind=1,1
      [3,3]((8,12,17),(29,44,62),(19,29,41)); lvl=3; h,r-ind=1,1
      [3,3]((9,14,20),(11,17,24),(19,29,41)); lvl=3; h,r-ind=1,1
      [3,3]((8,12,17),(9,14,20),(19,29,41)); lvl=3; h,r-ind=1,1
  [6,3]((4,5,7),(5,7,10),(8,12,17),(6,8,11),(9,13,18),(10,15,21)); lvl=1; h,r-ind=1,1
    [3,3]((7,10,14),(10,15,21),(8,12,17)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,10),(7,10,14),(8,12,17)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,7),(5,7,10),(7,10,14)); lvl=2; h,r-ind=1,1
    [3,3]((9,13,18),(7,10,14),(10,15,21)); lvl=2; h,r-ind=1,1
    [3,3]((6,8,11),(9,13,18),(7,10,14)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,7),(6,8,11),(7,10,14)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(4,5,7),(5,7,10)); lvl=1; h,r-ind=1,1
  [3,3]((9,14,20),(5,7,10),(8,12,17)); lvl=1; h,r-ind=1,1
  [5,3]((6,8,11),(5,6,8),(3,4,5),(9,13,18),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,5),(2,3,4),(9,12,16)); lvl=2; h,r-ind=1,1
    [4,3]((8,11,15),(15,20,27),(2,3,4),(9,12,16)); lvl=2; h,r-ind=1,1
      [3,3]((17,23,31),(9,12,16),(15,20,27)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,15),(17,23,31),(15,20,27)); lvl=3; h,r-ind=1,1
      [3,3]((17,23,31),(2,3,4),(9,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,15),(17,23,31),(2,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,8),(15,20,27),(13,17,23),(9,12,16)); lvl=2; h,r-ind=1,1
      [3,3]((15,20,27),(13,17,23),(35,46,62)); lvl=3; h,r-ind=1,1
      [4,3]((7,9,12),(5,6,8),(13,17,23),(35,46,62)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,6,8),(20,26,35),(13,17,23)); lvl=4; h,r-ind=1,1
        [3,3]((35,46,62),(20,26,35),(13,17,23)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,12),(5,6,8),(20,26,35)); lvl=4; h,r-ind=1,1
        [3,3]((35,46,62),(7,9,12),(20,26,35)); lvl=4; h,r-ind=1,1
      [4,3]((9,12,16),(7,9,12),(15,20,27),(35,46,62)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((22,29,39),(35,46,62),(7,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((9,12,16),(22,29,39),(7,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((22,29,39),(15,20,27),(35,46,62)); lvl=4; h,r-ind=1,1
        [3,3]((9,12,16),(22,29,39),(15,20,27)); lvl=4; h,r-ind=1,1
    [4,3]((6,8,11),(8,11,15),(15,20,27),(13,17,23)); lvl=2; h,r-ind=1,1
      [3,3]((8,11,15),(21,28,38),(15,20,27)); lvl=3; h,r-ind=1,1
      [3,3]((13,17,23),(21,28,38),(15,20,27)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,11),(8,11,15),(21,28,38)); lvl=3; h,r-ind=1,1
      [3,3]((13,17,23),(6,8,11),(21,28,38)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,8),(6,8,11),(13,17,23)); lvl=2; h,r-ind=1,1
    [3,3]((8,11,15),(9,13,18),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((6,8,11),(8,11,15),(9,13,18)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,8),(3,4,5),(9,12,16)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((3,5,6),(4,6,7),(3,4,5),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,7),(3,4,5),(6,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,5),(6,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(2,3,4),(6,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,6,7),(6,9,11)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,1),(2,3,3),(4,6,7),(3,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(4,6,7),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(4,6,7),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(1,1,1),(5,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(4,5,7),(6,8,11),(5,6,8)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,7),(13,16,22),(6,8,11)); lvl=2; h,r-ind=1,1
    [4,3]((3,3,4),(5,6,8),(13,16,22),(6,8,11)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((9,11,15),(6,8,11),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(9,11,15),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((13,16,22),(9,11,15),(6,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(13,16,22),(9,11,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(3,3,4),(4,5,7),(13,16,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,3,4),(13,16,22),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(13,16,22),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(4,5,7),(7,8,11)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,0,0),(3,3,4),(7,8,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(5,6,8),(1,1,1),(3,4,5)); lvl=1; h,r-ind=1,1
    [4,3]((3,3,4),(7,8,10),(5,6,8),(3,4,5)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,5),(6,7,9),(7,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(6,7,9),(7,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(3,3,4),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(3,4,5),(6,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(7,8,10),(3,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(3,3,4),(1,1,1),(7,8,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,4,5),(3,3,4),(7,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(4,4,5),(7,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(4,4,5),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(4,4,5)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((8,13,17),(3,5,6),(2,3,4),(7,11,15)); lvl=1; h,r-ind=1,1
    [3,3]((10,16,21),(3,5,6),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((7,11,15),(10,16,21),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((8,13,17),(7,11,15),(10,16,21)); lvl=2; h,r-ind=1,1
    [3,3]((8,13,17),(10,16,21),(3,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((5,8,11),(6,10,13),(8,13,17),(7,11,15)); lvl=1; h,r-ind=1,1
    [3,3]((13,21,28),(6,10,13),(8,13,17)); lvl=2; h,r-ind=1,1
    [3,3]((7,11,15),(13,21,28),(8,13,17)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,11),(7,11,15),(13,21,28)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,11),(13,21,28),(6,10,13)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,2),(6,10,13),(8,13,17),(3,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((6,10,13),(8,13,17),(9,15,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(8,13,17),(9,15,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(3,5,6),(9,15,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(6,10,13),(9,15,19)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(6,10,13)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,2),(3,5,6),(2,3,3),(4,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(4,6,7),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,6,7),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(3,5,6),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(5,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((9,14,20),(5,8,11),(7,11,15),(13,20,28)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,11),(23,36,50),(7,11,15)); lvl=2; h,r-ind=1,1
    [4,3]((11,17,24),(13,20,28),(23,36,50),(7,11,15)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((18,28,39),(7,11,15),(13,20,28)); lvl=3; h,r-ind=1,1
      [3,3]((11,17,24),(18,28,39),(13,20,28)); lvl=3; h,r-ind=1,1
      [3,3]((23,36,50),(18,28,39),(7,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((11,17,24),(23,36,50),(18,28,39)); lvl=3; h,r-ind=1,1
    [4,3]((9,14,20),(11,17,24),(5,8,11),(23,36,50)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((16,25,35),(23,36,50),(11,17,24)); lvl=3; h,r-ind=1,1
      [3,3]((9,14,20),(16,25,35),(11,17,24)); lvl=3; h,r-ind=1,1
      [3,3]((16,25,35),(5,8,11),(23,36,50)); lvl=3; h,r-ind=1,1
      [3,3]((9,14,20),(16,25,35),(5,8,11)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(5,8,11),(6,10,13)); lvl=1; h,r-ind=1,1
  [3,3]((9,14,20),(0,1,0),(5,8,11)); lvl=1; h,r-ind=1,1
```

20.72 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,16,20)); lvl=0; h,r-ind=20,100
  [3,3]((4,7,8),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((4,7,8),(6,11,13),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(6,11,13),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((5,9,11),(3,5,6),(4,7,8),(6,11,13)); lvl=1; h,r-ind=1,1
    [3,3]((9,16,19),(3,5,6),(4,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,13),(9,16,19),(4,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,11),(6,11,13),(9,16,19)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,11),(9,16,19),(3,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(5,9,11),(6,11,13)); lvl=1; h,r-ind=1,1
  [3,3]((9,16,20),(0,1,0),(5,9,11)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,6),(4,7,8),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,8),(2,3,3),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,7,8),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,5,6),(5,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(5,8,10),(3,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((3,4,5),(7,10,12),(5,8,10),(3,5,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,9,11),(7,10,12),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,10),(6,9,11),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(5,8,10),(6,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(6,9,11),(7,10,12)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((1,1,1),(7,10,12),(3,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(3,4,5),(1,1,1),(7,10,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,6),(3,4,5),(7,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(4,5,6),(7,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(4,5,6),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(4,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((9,16,20),(5,9,11),(5,8,10),(3,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((5,9,11),(15,26,32),(3,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((7,12,15),(5,8,10),(15,26,32),(3,5,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((10,17,21),(5,8,10),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((15,26,32),(10,17,21),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,15),(15,26,32),(10,17,21)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,15),(10,17,21),(5,8,10)); lvl=3; h,r-ind=1,1
    [4,3]((9,16,20),(7,12,15),(5,9,11),(15,26,32)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,12,15),(15,26,32),(12,21,26)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,11),(15,26,32),(12,21,26)); lvl=3; h,r-ind=1,1
      [3,3]((9,16,20),(7,12,15),(12,21,26)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,11),(9,16,20),(12,21,26)); lvl=3; h,r-ind=1,1
```

20.73 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,18,20)); lvl=0; h,r-ind=20,200
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((5,9,10),(6,11,12),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((6,10,11),(6,11,12),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(6,10,11),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,10),(1,0,0),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,10),(6,10,11),(6,11,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,1),(2,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(2,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(6,12,13),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((6,12,13),(5,10,11),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((9,18,20),(5,10,11),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((7,13,14),(1,2,2),(2,3,3),(6,12,13)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(8,15,16)); lvl=2; h,r-ind=1,1
    [3,3]((6,12,13),(1,2,2),(8,15,16)); lvl=2; h,r-ind=1,1
    [3,3]((7,13,14),(6,12,13),(8,15,16)); lvl=2; h,r-ind=1,1
    [3,3]((7,13,14),(2,3,3),(8,15,16)); lvl=2; h,r-ind=1,1
  [4,3]((6,11,12),(7,13,14),(6,12,13),(5,10,11)); lvl=1; h,r-ind=1,1
    [3,3]((7,13,14),(6,12,13),(12,23,25)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,11),(6,12,13),(12,23,25)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,12),(7,13,14),(12,23,25)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,11),(6,11,12),(12,23,25)); lvl=2; h,r-ind=1,1
  [4,3]((9,18,20),(5,9,10),(6,11,12),(5,10,11)); lvl=1; h,r-ind=1,1
    [3,3]((5,9,10),(6,11,12),(10,19,21)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,11),(6,11,12),(10,19,21)); lvl=2; h,r-ind=1,1
    [3,3]((9,18,20),(5,10,11),(10,19,21)); lvl=2; h,r-ind=1,1
    [3,3]((9,18,20),(5,9,10),(10,19,21)); lvl=2; h,r-ind=1,1
  [4,3]((6,11,12),(7,13,14),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((7,13,14),(2,3,3),(8,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(8,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,12),(7,13,14),(8,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(6,11,12),(8,14,15)); lvl=2; h,r-ind=1,1
```

20.74 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,11,20)); lvl=0; h,r-ind=20,40
  [4,3]((0,1,0),(5,6,10),(1,1,1),(3,3,5)); lvl=1; h,r-ind=1,1
    [4,3]((5,6,10),(5,7,10),(3,3,5),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((11,12,19),(3,3,5),(2,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,6),(7,9,14),(11,12,19),(2,2,3)); lvl=3; h,r-ind=1,1
        [3,3]((2,2,3),(6,7,11),(11,12,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(11,13,20),(6,7,11)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,6),(11,13,20),(7,9,14),(6,7,11)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((11,13,20),(9,11,17),(6,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((7,9,14),(9,11,17),(6,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,6),(7,9,14),(9,11,17)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,6),(11,13,20),(9,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,6),(11,13,20)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,10),(3,4,6),(2,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((5,6,10),(7,9,14),(11,12,19),(3,3,5)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((3,3,5),(16,18,29),(6,7,11),(11,12,19)); lvl=4; h,r-ind=1,3
          [3,3]((6,7,11),(16,18,29),(9,10,16)); lvl=5; h,r-ind=1,1
```

```
        [3,3]((3,3,5),(16,18,29),(9,10,16)); lvl=5; h,r-ind=1,1
        [3,3]((11,12,19),(6,7,11),(9,10,16)); lvl=5; h,r-ind=1,1
        [3,3]((3,3,5),(11,12,19),(9,10,16)); lvl=5; h,r-ind=1,1
      [4,3]((4,5,8),(5,6,10),(3,3,5),(16,18,29)); lvl=4; h,r-ind=1,3
        [3,3]((3,3,5),(5,6,10),(7,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,8),(5,6,10),(7,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((16,18,29),(3,3,5),(7,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,8),(16,18,29),(7,8,13)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,8),(16,18,29),(6,7,11)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((4,5,8),(7,9,14),(6,7,11)); lvl=4; h,r-ind=1,1
  [4,3]((0,1,0),(5,7,10),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,9),(1,1,1),(2,2,3)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,4),(3,5,6),(6,7,9),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(6,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(7,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(7,9,12)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,4),(3,5,6),(3,4,5),(7,9,12)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,9),(3,4,5),(3,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,4),(5,7,9),(3,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((7,9,12),(5,7,9),(3,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,4),(7,9,12),(5,7,9)); lvl=5; h,r-ind=1,1
    [3,3]((5,7,10),(2,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(3,5,6),(6,7,9),(1,1,1)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,1,1),(6,8,9),(3,4,5),(6,7,9)); lvl=4; h,r-ind=1,3
        [3,3]((6,8,9),(4,5,6),(3,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,9),(4,5,6),(3,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(6,7,9),(4,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(6,8,9),(4,5,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,2),(6,8,9),(3,4,5)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((1,2,2),(3,5,6),(3,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,1),(0,1,0),(1,2,2),(6,8,9)); lvl=4; h,r-ind=1,3
        [3,3]((2,3,3),(0,1,0),(1,2,2)); lvl=5; h,r-ind=1,1
        [3,3]((6,8,9),(2,3,3),(1,2,2)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(6,8,9),(2,3,3)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(2,3,3),(0,1,0)); lvl=5; h,r-ind=1,1
[3,3]((1,0,0),(1,1,1),(3,3,5)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((10,11,20),(5,5,9),(5,6,10),(3,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((5,6,10),(15,17,30),(3,3,5),(4,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((4,4,7),(3,3,5),(17,18,31)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,10),(13,15,26),(3,3,5),(17,18,31)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((3,3,5),(22,24,41),(10,11,19),(17,18,31)); lvl=4; h,r-ind=1,3
        [3,3]((10,11,19),(22,24,41),(13,14,24)); lvl=5; h,r-ind=1,1
        [3,3]((3,3,5),(22,24,41),(13,14,24)); lvl=5; h,r-ind=1,1
        [3,3]((17,18,31),(10,11,19),(13,14,24)); lvl=5; h,r-ind=1,1
        [3,3]((3,3,5),(17,18,31),(13,14,24)); lvl=5; h,r-ind=1,1
      [3,3]((6,7,12),(22,24,41),(10,11,19)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((13,15,26),(6,7,12),(10,11,19)); lvl=4; h,r-ind=1,1
      [4,3]((5,6,10),(3,3,5),(6,7,12),(22,24,41)); lvl=4; h,r-ind=1,3
        [3,3]((3,3,5),(22,24,41),(9,10,17)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,12),(22,24,41),(9,10,17)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,10),(3,3,5),(9,10,17)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,12),(5,6,10),(9,10,17)); lvl=5; h,r-ind=1,1
    [4,3]((13,15,26),(7,8,14),(4,4,7),(17,18,31)); lvl=3; h,r-ind=1,1
      [3,3]((4,4,7),(7,8,14),(21,23,40)); lvl=4; h,r-ind=1,1
      [4,3]((13,15,26),(10,11,19),(7,8,14),(21,23,40)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((17,19,33),(10,11,19),(21,23,40)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,14),(17,19,33),(21,23,40)); lvl=5; h,r-ind=1,1
        [3,3]((13,15,26),(7,8,14),(17,19,33)); lvl=5; h,r-ind=1,1
        [3,3]((13,15,26),(17,19,33),(10,11,19)); lvl=5; h,r-ind=1,1
      [3,3]((10,11,19),(4,4,7),(21,23,40)); lvl=4; h,r-ind=1,1
      [3,3]((10,11,19),(17,18,31),(4,4,7)); lvl=4; h,r-ind=1,1
    [3,3]((7,8,14),(15,17,30),(4,4,7)); lvl=3; h,r-ind=1,1
  [4,3]((10,11,20),(15,17,30),(5,5,9),(4,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((22,23,41),(4,4,7),(5,5,9)); lvl=3; h,r-ind=1,1
    [4,3]((10,11,20),(17,19,34),(22,23,41),(5,5,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((5,5,9),(32,34,61),(13,14,25),(22,23,41)); lvl=4; h,r-ind=1,3
        [3,3]((18,19,34),(13,14,25),(32,34,61)); lvl=5; h,r-ind=1,1
        [3,3]((5,5,9),(18,19,34),(32,34,61)); lvl=5; h,r-ind=1,1
        [3,3]((22,23,41),(18,19,34),(13,14,25)); lvl=5; h,r-ind=1,1
        [3,3]((5,5,9),(22,23,41),(18,19,34)); lvl=5; h,r-ind=1,1
      [4,3]((9,10,18),(10,11,20),(5,5,9),(32,34,61)); lvl=4; h,r-ind=1,3
        [3,3]((14,15,27),(5,5,9),(10,11,20)); lvl=5; h,r-ind=1,1
        [3,3]((9,10,18),(14,15,27),(10,11,20)); lvl=5; h,r-ind=1,1
        [3,3]((14,15,27),(32,34,61),(5,5,9)); lvl=5; h,r-ind=1,1
        [3,3]((9,10,18),(14,15,27),(32,34,61)); lvl=5; h,r-ind=1,1
      [3,3]((9,10,18),(32,34,61),(13,14,25)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((9,10,18),(17,19,34),(13,14,25)); lvl=4; h,r-ind=1,1
    [4,3]((8,9,16),(17,19,34),(22,23,41),(4,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,4,7),(13,14,25),(22,23,41)); lvl=4; h,r-ind=1,1
      [3,3]((4,4,7),(13,14,25),(25,27,48)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((4,4,7),(8,9,16),(25,27,48)); lvl=4; h,r-ind=1,1
        [4,3]((8,9,16),(17,19,34),(13,14,25),(25,27,48)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((21,23,41),(13,14,25),(17,19,34)); lvl=5; h,r-ind=1,1
          [3,3]((8,9,16),(21,23,41),(17,19,34)); lvl=5; h,r-ind=1,1
          [3,3]((21,23,41),(25,27,48),(13,14,25)); lvl=5; h,r-ind=1,1
          [3,3]((8,9,16),(21,23,41),(25,27,48)); lvl=5; h,r-ind=1,1
      [3,3]((15,17,30),(8,9,16),(4,4,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(5,5,9),(3,3,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(10,11,20),(5,5,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

20.75 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,13,20)); lvl=0; h,r-ind=20,40
  [4,3]((2,3,4),(3,3,4),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,6),(3,3,4),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,6),(0,1,0),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,2),(0,1,0),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(0,1,0),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(1,1,1),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(1,2,2),(2,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(4,5,6),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,3,4),(4,5,6),(3,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,6),(2,2,3),(2,3,4),(3,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,7),(3,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(4,5,7),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,6),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(4,5,7),(3,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((10,13,20),(3,4,6),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(10,13,20),(2,2,3)); lvl=1; h,r-ind=1,1
```

20.76 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,19,20)); lvl=0; h,r-ind=20,40
  [3,3]((1,2,2),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((10,19,20),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(10,19,20),(1,1,1)); lvl=1; h,r-ind=1,1
```

20.77 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,11,20)); lvl=0; h,r-ind=20,400
  [3,3]((1,0,0),(1,1,1),(3,3,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,1,1),(3,3,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(5,5,9),(3,3,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(5,5,9),(3,3,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((11,11,20),(0,1,0),(5,5,9)); lvl=1; h,r-ind=1,1
  [3,3]((11,11,20),(1,0,0),(5,5,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

20.78 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,13,20)); lvl=0; h,r-ind=20,400
  [3,3]((1,0,0),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,4,5),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(5,6,7),(3,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,5),(6,8,9),(5,6,7),(3,3,4)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,6),(6,8,9),(5,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(3,3,4),(5,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(4,5,6),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(4,5,6),(6,8,9)); lvl=3; h,r-ind=1,1
    [4,3]((6,8,9),(2,3,3),(1,1,1),(5,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((7,9,10),(1,1,1),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,9),(7,9,10),(2,3,3)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((5,6,7),(6,8,9),(7,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,7),(7,9,10),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(6,8,9),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(0,1,0),(2,3,3)); lvl=2; h,r-ind=1,1
  [5,3]((7,8,12),(2,2,3),(4,5,7),(3,4,5),(3,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((7,8,11),(3,4,5),(3,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,3),(7,8,11),(3,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((7,8,11),(11,13,18),(9,11,15),(3,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((9,11,15),(11,13,18),(25,30,41)); lvl=3; h,r-ind=1,1
      [4,3]((5,6,8),(7,8,11),(11,13,18),(25,30,41)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((16,19,26),(11,13,18),(7,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,8),(16,19,26),(7,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((25,30,41),(16,19,26),(11,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,8),(25,30,41),(16,19,26)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,5),(5,6,8),(9,11,15),(25,30,41)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((14,17,23),(5,6,8),(25,30,41)); lvl=4; h,r-ind=1,1
        [3,3]((14,17,23),(9,11,15),(25,30,41)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(14,17,23),(9,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(14,17,23),(5,6,8)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,7),(9,11,15),(3,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(6,7,10),(7,8,11),(11,13,18)); lvl=2; h,r-ind=1,1
      [3,3]((11,13,18),(6,7,10),(13,15,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(6,7,10),(13,15,21)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,11),(2,2,3),(13,15,21)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,11),(11,13,18),(13,15,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(7,8,12),(6,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,7),(6,7,10),(11,13,18),(9,11,15)); lvl=2; h,r-ind=1,1
      [3,3]((11,13,18),(6,7,10),(15,18,25)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(6,7,10),(15,18,25)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,15),(4,5,7),(15,18,25)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,15),(11,13,18),(15,18,25)); lvl=3; h,r-ind=1,1
    [3,3]((7,8,12),(4,5,7),(6,7,10)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(4,5,7),(3,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,9),(0,1,0),(4,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((11,13,20),(5,6,9),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(1,0,0),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((7,8,12),(5,6,9),(4,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((11,13,20),(7,8,12),(5,6,9)); lvl=1; h,r-ind=1,1
  [3,3]((11,13,20),(7,8,12),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((11,13,20),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

20.79 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,15,20)); lvl=0; h,r-ind=20,80
  [3,3]((3,4,5),(5,7,9),(3,5,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(5,7,9),(3,5,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,1,1),(3,4,5),(3,5,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,1,1),(3,5,5)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((11,15,20),(12,15,20),(3,4,5),(5,7,9)); lvl=1; h,r-ind=1,1
    [4,3]((20,27,35),(3,4,5),(7,9,12),(16,21,28)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(7,9,12),(22,29,38)); lvl=3; h,r-ind=1,1
      [4,3]((12,16,21),(16,21,28),(7,9,12),(22,29,38)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,9,12),(19,25,33),(16,21,28)); lvl=4; h,r-ind=1,1
        [3,3]((12,16,21),(19,25,33),(16,21,28)); lvl=4; h,r-ind=1,1
        [3,3]((22,29,38),(7,9,12),(19,25,33)); lvl=4; h,r-ind=1,1
        [3,3]((12,16,21),(22,29,38),(19,25,33)); lvl=4; h,r-ind=1,1
      [3,3]((12,16,21),(3,4,5),(22,29,38)); lvl=3; h,r-ind=1,1
      [3,3]((20,27,35),(12,16,21),(3,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((11,15,20),(5,7,9),(20,27,35),(16,21,28)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((12,16,21),(31,42,55),(5,7,9),(20,27,35)); lvl=3; h,r-ind=1,3
        [3,3]((17,23,30),(5,7,9),(31,42,55)); lvl=4; h,r-ind=1,1
        [3,3]((12,16,21),(17,23,30),(31,42,55)); lvl=4; h,r-ind=1,1
        [3,3]((20,27,35),(17,23,30),(5,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((12,16,21),(20,27,35),(17,23,30)); lvl=4; h,r-ind=1,1
      [3,3]((12,16,21),(9,12,16),(31,42,55)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((16,21,28),(12,16,21),(9,12,16)); lvl=3; h,r-ind=1,1
      [4,3]((11,15,20),(9,12,16),(31,42,55),(5,7,9)); lvl=3; h,r-ind=1,3
        [3,3]((14,19,25),(9,12,16),(31,42,55)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,9),(14,19,25),(31,42,55)); lvl=4; h,r-ind=1,1
        [3,3]((11,15,20),(14,19,25),(9,12,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,9),(11,15,20),(14,19,25)); lvl=4; h,r-ind=1,1
    [3,3]((5,7,9),(20,27,35),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(12,15,20),(7,9,12)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(11,15,20),(5,7,9)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,1),(12,15,20),(3,4,5)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((3,4,5),(1,1,1),(10,12,15)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(8,9,12),(1,1,1),(10,12,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,1,1),(11,12,15),(6,7,9),(10,12,15)); lvl=3; h,r-ind=1,3
        [3,3]((11,12,15),(7,8,10),(6,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((10,12,15),(7,8,10),(6,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(10,12,15),(7,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(11,12,15),(7,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,4),(11,12,15),(6,7,9)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((3,3,4),(8,9,12),(6,7,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(1,0,0),(3,3,4),(11,12,15)); lvl=3; h,r-ind=1,3
        [3,3]((3,3,4),(1,0,0),(4,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(4,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((11,12,15),(3,3,4),(4,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(11,12,15),(4,4,5)); lvl=4; h,r-ind=1,1
    [4,3]((8,9,12),(5,6,8),(3,4,5),(10,12,15)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,8),(3,4,5),(14,17,22)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,9),(3,4,5),(14,17,22)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,9),(10,12,15),(3,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((8,9,12),(6,7,9),(5,6,8),(14,17,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((11,13,17),(14,17,22),(6,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,12),(11,13,17),(6,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,8),(8,9,12),(11,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,8),(11,13,17),(14,17,22)); lvl=4; h,r-ind=1,1
    [3,3]((12,15,20),(5,6,8),(3,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

20.80 Resolved

```
[3,3]((1,0,0),(0,1,0),(12,13,20)); lvl=0; h,r-ind=20,100
  [3,3]((3,3,4),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((12,13,20),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(3,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,4),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(6,7,10),(2,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((12,13,20),(6,7,10),(2,2,3)); lvl=1; h,r-ind=2,2; optimized-h
```

20.81 Resolved

```
[3,3]((1,0,0),(0,1,0),(12,15,20)); lvl=0; h,r-ind=20,20
  [5,3]((8,9,12),(6,7,9),(5,6,7),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
    [5,3]((5,6,7),(6,7,9),(16,18,23),(18,20,25),(8,9,11)); lvl=2; h,r-ind=1,1
      [3,3]((7,8,10),(17,19,24),(18,20,25)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,11),(7,8,10),(18,20,25)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,7),(8,9,11),(7,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,9),(5,6,7),(7,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((16,18,23),(7,8,10),(17,19,24)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,9),(16,18,23),(7,8,10)); lvl=3; h,r-ind=1,1
    [4,3]((11,12,15),(1,1,1),(18,20,25),(8,9,11)); lvl=2; h,r-ind=1,1
      [3,3]((19,21,26),(8,9,11),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((11,12,15),(19,21,26),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((18,20,25),(19,21,26),(8,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((11,12,15),(18,20,25),(19,21,26)); lvl=3; h,r-ind=1,1
    [4,3]((3,3,4),(11,12,15),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((4,4,5),(11,12,15),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(4,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(1,0,0),(4,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(4,4,5),(11,12,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(5,6,7),(8,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((8,9,12),(9,10,13),(6,7,9),(16,18,23)); lvl=2; h,r-ind=1,1
      [3,3]((15,17,22),(16,18,23),(9,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,12),(15,17,22),(9,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,9),(15,17,22),(16,18,23)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,12),(6,7,9),(15,17,22)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,4),(8,9,12),(9,10,13)); lvl=2; h,r-ind=1,1
    [5,3]((3,3,4),(9,10,13),(11,12,15),(16,18,23),(18,20,25)); lvl=2; h,r-ind=1,1
      [3,3]((16,18,23),(10,11,14),(17,19,24)); lvl=3; h,r-ind=1,1
      [3,3]((18,20,25),(10,11,14),(17,19,24)); lvl=3; h,r-ind=1,1
      [3,3]((11,12,15),(18,20,25),(10,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(11,12,15),(10,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,13),(16,18,23),(10,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(9,10,13),(10,11,14)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((8,9,12),(5,6,8),(6,7,9)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,5),(5,6,8),(6,7,9),(5,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((6,7,9),(5,6,8),(15,18,23)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,6),(3,4,5),(5,6,8),(15,18,23)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,6,8),(9,11,14),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(9,11,14),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((15,18,23),(5,6,8),(9,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(15,18,23),(9,11,14)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,7),(4,5,6),(6,7,9),(15,18,23)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,6),(10,12,15),(15,18,23)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,9),(10,12,15),(15,18,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,7),(6,7,9),(10,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,7),(4,5,6),(10,12,15)); lvl=3; h,r-ind=1,1
  [3,3]((12,15,20),(3,4,5),(5,6,8)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,7),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,5),(5,6,7),(2,3,3),(3,4,4)); lvl=1; h,r-ind=1,1
    [4,3]((4,5,6),(9,12,13),(3,4,4),(5,6,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,9,10),(9,12,13),(3,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,7),(7,9,10),(3,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(5,6,7),(7,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(7,9,10),(9,12,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(9,12,13),(3,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,6),(3,4,5),(2,3,3),(9,12,13)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,5),(6,8,9),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,13),(6,8,9),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(3,4,5),(6,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,13),(4,5,6),(6,8,9)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,5),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(3,4,4)); lvl=1; h,r-ind=1,1
```

20.82 Resolved

```
[3,3]((1,0,0),(0,1,0),(12,19,20)); lvl=0; h,r-ind=20,100
  [3,3]((12,19,20),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(12,19,20),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((12,19,20),(3,5,5),(3,4,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(3,5,5),(3,4,4)); lvl=1; h,r-ind=3,3; optimized-h
```

20.83 Resolved

```
[3,3]((1,0,0),(0,1,0),(13,13,20)); lvl=0; h,r-ind=20,400
  [3,3]((3,3,4),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((13,13,20),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,4),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,4),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((13,13,20),(0,1,0),(2,2,3)); lvl=1; h,r-ind=1,1
```

20.84 Resolved

```
[3,3]((1,0,0),(0,1,0),(13,18,20)); lvl=0; h,r-ind=20,200
  [3,3]((1,0,0),(7,9,10),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((13,18,20),(8,11,12),(7,9,10),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((14,19,21),(8,11,12),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,10),(14,19,21),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((13,18,20),(7,9,10),(14,19,21)); lvl=2; h,r-ind=1,1
    [3,3]((13,18,20),(14,19,21),(8,11,12)); lvl=2; h,r-ind=1,1
  [3,3]((8,11,12),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((8,11,12),(2,3,3),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((13,18,20),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((13,18,20),(8,11,12),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

20.85 Resolved

```
[3,3]((1,0,0),(0,1,0),(13,19,20)); lvl=0; h,r-ind=20,400
  [3,3]((0,1,0),(2,3,3),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((13,19,20),(2,3,3),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((13,19,20),(1,1,1),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(13,19,20),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((13,19,20),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
```

20.86 Resolved

```
[3,3]((1,0,0),(0,1,0),(14,15,20)); lvl=0; h,r-ind=20,40
  [3,3]((3,3,4),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((3,3,4),(8,9,11),(6,7,8),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((8,9,11),(9,10,12),(6,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(9,10,12),(6,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,3,4),(8,9,11),(9,10,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,3,4),(9,10,12)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(6,7,8),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,3,4),(8,9,11),(12,13,17)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((14,15,20),(3,3,4),(12,13,17)); lvl=1; h,r-ind=1,1
  [4,3]((7,8,10),(5,6,7),(8,9,11),(12,13,17)); lvl=1; h,r-ind=1,1
    [4,3]((22,25,31),(10,11,14),(5,6,7),(8,9,11)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((10,11,14),(8,9,11),(15,17,21)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,7),(8,9,11),(15,17,21)); lvl=3; h,r-ind=1,1
      [3,3]((22,25,31),(5,6,7),(15,17,21)); lvl=3; h,r-ind=1,1
      [3,3]((22,25,31),(10,11,14),(15,17,21)); lvl=3; h,r-ind=1,1
    [3,3]((7,8,10),(22,25,31),(5,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((7,8,10),(22,25,31),(12,13,17),(10,11,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((22,25,31),(17,19,24),(10,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((12,13,17),(17,19,24),(10,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,10),(12,13,17),(17,19,24)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,10),(22,25,31),(17,19,24)); lvl=3; h,r-ind=1,1
  [3,3]((14,15,20),(7,8,10),(12,13,17)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(7,8,10),(5,6,7)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(5,6,7),(8,9,11),(6,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,7),(8,9,11),(16,19,22)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,4),(6,7,8),(8,9,11),(16,19,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((11,13,15),(6,7,8),(8,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((16,19,22),(11,13,15),(8,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,4),(16,19,22),(11,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,4),(11,13,15),(6,7,8)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(3,4,4),(5,6,7),(16,19,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,4),(16,19,22),(8,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,7),(16,19,22),(8,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(5,6,7),(8,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(3,4,4),(8,10,11)); lvl=3; h,r-ind=1,1
```

20.87 Resolved

```
[3,3]((1,0,0),(0,1,0),(14,19,20)); lvl=0; h,r-ind=20,200
  [3,3]((14,19,20),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((14,19,20),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((14,19,20),(7,10,10),(3,4,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(7,10,10),(3,4,4)); lvl=1; h,r-ind=2,2; optimized-h
```

20.88 Resolved

```
[3,3]((1,0,0),(0,1,0),(15,16,20)); lvl=0; h,r-ind=20,20
  [3,3]((4,4,5),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((15,16,20),(15,17,20),(4,4,5),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((4,4,5),(1,1,1),(18,19,23)); lvl=2; h,r-ind=1,1
    [4,3]((21,23,28),(9,10,12),(1,1,1),(18,19,23)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(9,10,12),(23,25,30)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((21,23,28),(13,14,17),(9,10,12),(23,25,30)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((22,24,29),(13,14,17),(23,25,30)); lvl=4; h,r-ind=1,1
        [3,3]((22,24,29),(9,10,12),(23,25,30)); lvl=4; h,r-ind=1,1
        [3,3]((21,23,28),(22,24,29),(9,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((21,23,28),(22,24,29),(13,14,17)); lvl=4; h,r-ind=1,1
      [3,3]((13,14,17),(1,1,1),(23,25,30)); lvl=3; h,r-ind=1,1
      [3,3]((18,19,23),(13,14,17),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((15,17,20),(9,10,12),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((15,16,20),(21,23,28),(4,4,5),(18,19,23)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((4,4,5),(33,35,43),(13,14,17),(18,19,23)); lvl=3; h,r-ind=1,3
        [3,3]((13,14,17),(33,35,43),(17,18,22)); lvl=4; h,r-ind=1,1
        [3,3]((4,4,5),(33,35,43),(17,18,22)); lvl=4; h,r-ind=1,1
        [3,3]((18,19,23),(13,14,17),(17,18,22)); lvl=4; h,r-ind=1,1
        [3,3]((4,4,5),(18,19,23),(17,18,22)); lvl=4; h,r-ind=1,1
      [3,3]((33,35,43),(13,14,17),(12,13,16)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((13,14,17),(21,23,28),(12,13,16)); lvl=3; h,r-ind=1,1
      [4,3]((4,4,5),(15,16,20),(33,35,43),(12,13,16)); lvl=3; h,r-ind=1,3
        [3,3]((16,17,21),(12,13,16),(15,16,20)); lvl=4; h,r-ind=1,1
        [3,3]((4,4,5),(16,17,21),(15,16,20)); lvl=4; h,r-ind=1,1
        [3,3]((33,35,43),(16,17,21),(12,13,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,4,5),(33,35,43),(16,17,21)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(15,17,20),(1,1,1)); lvl=1; h,r-ind=5,5; optimized-h
```

20.89 Resolved

```
[3,3]((1,0,0),(0,1,0),(15,18,20)); lvl=0; h,r-ind=20,40
  [3,3]((8,9,10),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((8,9,10),(15,18,20),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((15,18,20),(12,15,16),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,4,4),(12,15,16),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
```

20.90 Resolved

```
[3,3]((1,0,0),(0,1,0),(15,19,20)); lvl=0; h,r-ind=20,80
  [3,3]((15,19,20),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((15,19,20),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
```

20.91 Resolved

```
[3,3]((1,0,0),(0,1,0),(16,19,20)); lvl=0; h,r-ind=20,100
  [3,3]((0,1,0),(4,5,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((16,19,20),(4,5,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(16,19,20),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

20.92 Resolved

```
[3,3]((1,0,0),(0,1,0),(18,19,20)); lvl=0; h,r-ind=20,200
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((18,19,20),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((9,10,10),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((18,19,20),(9,10,10),(1,1,1)); lvl=1; h,r-ind=1,1
```

20.93 Resolved

```
[3,3]((1,0,0),(0,1,0),(19,19,20)); lvl=0; h,r-ind=20,400
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((19,19,20),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((19,19,20),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

20.94 Resolved

```
[3,3]((1,0,0),(1,2,0),(1,0,10)); lvl=0; h,r-ind=20,10
  [4,3]((1,0,5),(2,2,5),(1,1,0),(1,0,0)); lvl=1; h,r-ind=5,1
    [4,3]((1,0,5),(2,0,5),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,3),(2,1,4),(4,3,8)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [5,3]((1,0,3),(2,1,5),(7,5,15),(2,1,4),(4,3,8)); lvl=3; h,r-ind=1,1
        [4,3]((6,4,13),(3,2,6),(5,3,11),(4,3,8)); lvl=4; h,r-ind=1,1
          [3,3]((9,6,19),(3,2,6),(5,3,11)); lvl=5; h,r-ind=1,1
          [3,3]((6,4,13),(9,6,19),(5,3,11)); lvl=5; h,r-ind=1,1
          [3,3]((4,3,8),(6,4,13),(9,6,19)); lvl=5; h,r-ind=1,1
          [3,3]((4,3,8),(9,6,19),(3,2,6)); lvl=5; h,r-ind=1,1
        [3,3]((7,5,15),(6,4,13),(4,3,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,1,5),(7,5,15),(6,4,13)); lvl=4; h,r-ind=1,1
        [4,3]((2,1,5),(6,4,13),(8,4,19),(5,3,11)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((7,4,16),(5,3,11),(6,4,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,1,5),(7,4,16),(6,4,13)); lvl=5; h,r-ind=1,1
          [3,3]((8,4,19),(7,4,16),(5,3,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,1,5),(8,4,19),(7,4,16)); lvl=5; h,r-ind=1,1
        [5,3]((1,0,3),(2,1,4),(8,4,19),(3,2,6),(5,3,11)); lvl=4; h,r-ind=1,1
          [3,3]((5,3,11),(9,5,20),(3,2,6)); lvl=5; h,r-ind=1,1
          [4,3]((4,2,9),(10,5,23),(9,5,20),(3,2,6)); lvl=5; h,r-ind=1,1
            [3,3]((13,7,29),(9,5,20),(10,5,23)); lvl=6; h,r-ind=1,1
            [3,3]((4,2,9),(13,7,29),(10,5,23)); lvl=6; h,r-ind=1,1
            [3,3]((3,2,6),(4,2,9),(13,7,29)); lvl=6; h,r-ind=1,1
            [3,3]((3,2,6),(13,7,29),(9,5,20)); lvl=6; h,r-ind=1,1
          [3,3]((2,1,4),(4,2,9),(3,2,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,3),(2,1,4),(4,2,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,3),(4,2,9),(10,5,23)); lvl=5; h,r-ind=1,1
          [4,3]((10,5,23),(5,3,11),(6,3,14),(9,5,20)); lvl=5; h,r-ind=1,1
            [3,3]((15,8,34),(5,3,11),(6,3,14)); lvl=6; h,r-ind=1,1
            [3,3]((10,5,23),(15,8,34),(6,3,14)); lvl=6; h,r-ind=1,1
            [3,3]((9,5,20),(10,5,23),(15,8,34)); lvl=6; h,r-ind=1,1
            [3,3]((9,5,20),(15,8,34),(5,3,11)); lvl=6; h,r-ind=1,1
          [3,3]((1,0,3),(10,5,23),(6,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((8,4,19),(5,3,11),(6,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,3),(8,4,19),(6,3,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,1,5),(1,0,3),(8,4,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,3),(2,0,5),(2,1,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,3),(2,0,7),(2,1,5)); lvl=3; h,r-ind=1,1
      [4,3]((7,5,15),(1,1,2),(2,2,3),(4,3,8)); lvl=3; h,r-ind=1,1
        [3,3]((5,4,10),(1,1,2),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,4,10),(4,3,8),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((7,5,15),(5,4,10),(4,3,8)); lvl=4; h,r-ind=1,1
        [3,3]((7,5,15),(5,4,10),(1,1,2)); lvl=4; h,r-ind=1,1
      [5,3]((1,0,5),(2,0,7),(2,1,5),(7,5,15),(1,1,2)); lvl=3; h,r-ind=1,1
        [4,3]((3,1,9),(6,3,16),(2,1,5),(2,0,7)); lvl=4; h,r-ind=1,1
          [3,3]((5,2,14),(2,1,5),(6,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((3,1,9),(5,2,14),(6,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((3,1,9),(2,0,7),(5,2,14)); lvl=5; h,r-ind=1,1
          [3,3]((2,0,7),(5,2,14),(2,1,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,4),(3,1,9),(2,0,7)); lvl=4; h,r-ind=1,1
        [5,3]((1,0,4),(5,3,13),(3,1,9),(7,4,18),(6,3,16)); lvl=4; h,r-ind=1,1
          [3,3]((4,2,11),(6,3,16),(7,4,18)); lvl=5; h,r-ind=1,1
          [3,3]((5,3,13),(4,2,11),(7,4,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,4),(5,3,13),(4,2,11)); lvl=5; h,r-ind=1,1
          [3,3]((4,2,11),(3,1,9),(6,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,4),(4,2,11),(3,1,9)); lvl=5; h,r-ind=1,1
        [4,3]((1,0,5),(1,0,4),(5,3,13),(1,1,2)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((1,0,4),(5,3,13),(2,1,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(5,3,13),(2,1,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,5),(1,0,4),(2,1,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(1,0,5),(2,1,6)); lvl=5; h,r-ind=1,1
        [4,3]((7,4,18),(6,3,16),(3,2,7),(2,1,5)); lvl=4; h,r-ind=1,1
          [3,3]((6,3,16),(2,1,5),(9,5,23)); lvl=5; h,r-ind=1,1
          [3,3]((3,2,7),(2,1,5),(9,5,23)); lvl=5; h,r-ind=1,1
          [3,3]((7,4,18),(6,3,16),(9,5,23)); lvl=5; h,r-ind=1,1
          [3,3]((3,2,7),(7,4,18),(9,5,23)); lvl=5; h,r-ind=1,1
        [3,3]((3,2,7),(2,1,5),(7,5,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(3,2,7),(7,5,15)); lvl=4; h,r-ind=1,1
        [4,3]((5,3,13),(7,4,18),(1,1,2),(3,2,7)); lvl=4; h,r-ind=1,1
          [3,3]((3,2,7),(7,4,18),(8,5,20)); lvl=5; h,r-ind=1,1
          [3,3]((5,3,13),(7,4,18),(8,5,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(5,3,13),(8,5,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(3,2,7),(8,5,20)); lvl=5; h,r-ind=1,1
    [4,3]((1,0,0),(2,0,5),(1,1,0),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(2,2,3),(2,1,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,2),(1,1,1),(2,1,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,0,5),(1,0,2),(2,1,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,0,3),(1,0,2),(1,1,1)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((1,0,0),(2,0,3),(1,1,0),(1,1,1)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,1),(1,1,0),(3,2,2)); lvl=4; h,r-ind=1,1
        [4,3]((1,0,0),(1,0,1),(1,1,0),(3,2,2)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,1,1),(1,0,1),(3,2,2)); lvl=5; h,r-ind=1,1
          [3,3]((2,1,1),(1,1,0),(3,2,2)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(2,1,1),(1,1,0)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(2,1,1),(1,0,1)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,1),(1,1,1),(3,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,1),(2,0,3),(1,1,1)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,5),(2,2,5),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,5),(1,0,10),(1,0,5),(2,2,5)); lvl=1; h,r-ind=5,1
    [4,3]((1,1,3),(2,2,7),(1,0,5),(2,0,15)); lvl=2; h,r-ind=1,1
      [3,3]((1,0,7),(2,1,10),(2,0,13)); lvl=3; h,r-ind=1,1
      [5,3]((1,1,3),(7,5,30),(1,0,5),(2,1,10),(2,0,13)); lvl=3; h,r-ind=1,1
        [3,3]((1,0,6),(3,1,16),(2,0,13)); lvl=4; h,r-ind=1,1
        [4,3]((2,1,10),(6,3,29),(3,1,16),(2,0,13)); lvl=4; h,r-ind=1,1
          [3,3]((5,2,26),(3,1,16),(6,3,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,1,10),(5,2,26),(6,3,29)); lvl=5; h,r-ind=1,1
          [3,3]((5,2,26),(2,0,13),(3,1,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,1,10),(5,2,26),(2,0,13)); lvl=5; h,r-ind=1,1
        [4,3]((3,2,13),(7,4,32),(2,1,10),(6,3,29)); lvl=4; h,r-ind=1,1
          [3,3]((2,1,10),(6,3,29),(9,5,42)); lvl=5; h,r-ind=1,1
          [3,3]((7,4,32),(6,3,29),(9,5,42)); lvl=5; h,r-ind=1,1
          [3,3]((3,2,13),(2,1,10),(9,5,42)); lvl=5; h,r-ind=1,1
          [3,3]((7,4,32),(3,2,13),(9,5,42)); lvl=5; h,r-ind=1,1
        [3,3]((3,2,13),(7,5,30),(2,1,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(3,2,13),(7,5,30)); lvl=4; h,r-ind=1,1
        [5,3]((5,3,22),(7,4,32),(6,3,29),(1,0,6),(3,1,16)); lvl=4; h,r-ind=1,1
          [3,3]((6,3,29),(4,2,19),(3,1,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,6),(4,2,19),(3,1,16)); lvl=5; h,r-ind=1,1
          [3,3]((5,3,22),(1,0,6),(4,2,19)); lvl=5; h,r-ind=1,1
          [3,3]((7,4,32),(6,3,29),(4,2,19)); lvl=5; h,r-ind=1,1
          [3,3]((5,3,22),(7,4,32),(4,2,19)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,3),(5,3,22),(1,0,5),(1,0,6)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((1,0,6),(2,1,9),(1,0,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(2,1,9),(1,0,5)); lvl=5; h,r-ind=1,1
          [3,3]((5,3,22),(1,0,6),(2,1,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(5,3,22),(2,1,9)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,3),(3,2,13),(5,3,22),(7,4,32)); lvl=4; h,r-ind=1,1
          [3,3]((3,2,13),(7,4,32),(8,5,35)); lvl=5; h,r-ind=1,1
          [3,3]((5,3,22),(7,4,32),(8,5,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(3,2,13),(8,5,35)); lvl=5; h,r-ind=1,1
          [3,3]((5,3,22),(1,1,3),(8,5,35)); lvl=5; h,r-ind=1,1
      [5,3]((2,1,11),(4,3,17),(7,5,30),(1,0,7),(2,1,10)); lvl=3; h,r-ind=1,1
        [3,3]((6,4,27),(7,5,30),(2,1,10)); lvl=4; h,r-ind=1,1
        [4,3]((6,4,27),(5,3,24),(8,4,41),(2,1,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,3,24),(7,4,34),(8,4,41)); lvl=5; h,r-ind=1,1
          [3,3]((2,1,10),(7,4,34),(8,4,41)); lvl=5; h,r-ind=1,1
          [3,3]((6,4,27),(2,1,10),(7,4,34)); lvl=5; h,r-ind=1,1
          [3,3]((6,4,27),(5,3,24),(7,4,34)); lvl=5; h,r-ind=1,1
        [3,3]((8,4,41),(1,0,7),(2,1,10)); lvl=4; h,r-ind=1,1
        [5,3]((2,1,11),(3,2,14),(5,3,24),(8,4,41),(1,0,7)); lvl=4; h,r-ind=1,1
          [3,3]((5,3,24),(3,2,14),(9,5,45)); lvl=5; h,r-ind=1,1
          [4,3]((4,2,21),(10,5,52),(3,2,14),(9,5,45)); lvl=5; h,r-ind=1,1
            [3,3]((9,5,45),(10,5,52),(13,7,66)); lvl=6; h,r-ind=1,1
            [3,3]((4,2,21),(10,5,52),(13,7,66)); lvl=6; h,r-ind=1,1
            [3,3]((3,2,14),(4,2,21),(13,7,66)); lvl=6; h,r-ind=1,1
            [3,3]((3,2,14),(9,5,45),(13,7,66)); lvl=6; h,r-ind=1,1
          [3,3]((2,1,11),(4,2,21),(3,2,14)); lvl=5; h,r-ind=1,1
          [3,3]((4,2,21),(1,0,7),(10,5,52)); lvl=5; h,r-ind=1,1
          [3,3]((2,1,11),(4,2,21),(1,0,7)); lvl=5; h,r-ind=1,1
          [4,3]((6,3,31),(10,5,52),(5,3,24),(9,5,45)); lvl=5; h,r-ind=1,1
            [3,3]((9,5,45),(10,5,52),(15,8,76)); lvl=6; h,r-ind=1,1
            [3,3]((6,3,31),(10,5,52),(15,8,76)); lvl=6; h,r-ind=1,1
            [3,3]((5,3,24),(6,3,31),(15,8,76)); lvl=6; h,r-ind=1,1
            [3,3]((5,3,24),(9,5,45),(15,8,76)); lvl=6; h,r-ind=1,1
          [3,3]((6,3,31),(5,3,24),(8,4,41)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,7),(6,3,31),(8,4,41)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,7),(6,3,31),(10,5,52)); lvl=5; h,r-ind=1,1
        [4,3]((4,3,17),(3,2,14),(6,4,27),(5,3,24)); lvl=4; h,r-ind=1,1
          [3,3]((3,2,14),(5,3,24),(9,6,41)); lvl=5; h,r-ind=1,1
          [3,3]((6,4,27),(5,3,24),(9,6,41)); lvl=5; h,r-ind=1,1
          [3,3]((4,3,17),(3,2,14),(9,6,41)); lvl=5; h,r-ind=1,1
          [3,3]((6,4,27),(4,3,17),(9,6,41)); lvl=5; h,r-ind=1,1
        [3,3]((4,3,17),(6,4,27),(7,5,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,1,11),(2,0,15),(1,0,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,7),(2,1,11),(4,3,17)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,1,3),(2,2,7),(4,3,17),(7,5,30)); lvl=3; h,r-ind=1,1
        [3,3]((5,4,20),(2,2,7),(4,3,17)); lvl=4; h,r-ind=1,1
        [3,3]((7,5,30),(5,4,20),(4,3,17)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((1,1,3),(7,5,30),(5,4,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(5,4,20),(2,2,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,5),(2,2,7),(1,0,10),(2,0,15)); lvl=2; h,r-ind=1,1
      [3,3]((1,0,8),(2,1,11),(2,0,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(1,0,8),(2,1,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(2,2,7),(2,1,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(1,0,8),(2,0,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,5),(1,1,4),(1,0,10),(2,0,17)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,4),(1,0,9),(2,0,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(3,2,18),(1,0,9)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,5),(3,2,18),(1,0,10),(1,0,9)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,0,10),(2,1,14),(1,0,9)); lvl=5; h,r-ind=1,1
          [3,3]((3,2,18),(2,1,14),(1,0,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(3,2,18),(2,1,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(1,0,10),(2,1,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(1,1,5),(3,2,18)); lvl=4; h,r-ind=1,1
    [3,3]((2,2,5),(1,1,3),(1,0,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,2,5),(1,2,0),(1,1,0)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,1,5),(2,2,5),(1,2,0)); lvl=1; h,r-ind=5,5; optimized-h
```

20.95 Resolved

```
[3,3]((1,0,0),(1,2,0),(1,4,10)); lvl=0; h,r-ind=20,50
  [3,3]((1,2,5),(1,0,0),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,3),(1,0,0),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,4,10),(1,2,3),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,1,0),(1,2,2),(1,2,3),(1,0,0)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,1),(1,2,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,0),(1,2,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,4,10),(1,3,5),(1,2,2),(1,2,3)); lvl=1; h,r-ind=1,2
    [3,3]((1,3,6),(1,3,5),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(1,2,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,10),(1,3,6),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,10),(1,3,6),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,0),(1,3,5),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,4,10),(1,2,5),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
```

20.96 Resolved

```
[3,3]((1,0,0),(1,2,0),(3,0,10)); lvl=0; h,r-ind=20,10
  [4,3]((1,0,2),(1,1,1),(1,0,0),(1,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(1,1,0),(3,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(1,0,1),(1,1,0),(3,2,2)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,1,1),(1,0,1),(3,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,1),(1,1,0),(3,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,1,1),(1,1,0)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,1,1),(1,0,1)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,2),(1,0,1),(1,1,1),(3,2,2)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,1,2),(1,0,1),(3,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,2),(1,1,1),(3,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,2),(2,1,2),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,2),(2,1,2),(1,0,1)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,1),(1,2,0),(1,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,3),(1,0,2),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,1,4),(1,1,1),(1,0,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,3),(2,1,4),(1,0,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,1,4),(3,3,4),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,3),(2,1,4),(3,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,3),(2,1,5),(2,2,3),(3,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,1,5),(3,2,6),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,3,4),(3,2,6),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,3),(3,3,4),(3,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,3),(2,1,5),(3,2,6)); lvl=2; h,r-ind=1,1
  [3,3]((3,0,10),(1,0,3),(2,1,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(1,2,0),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(1,2,0),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((2,1,5),(2,2,3),(1,2,0)); lvl=1; h,r-ind=1,1
```

20.97 Resolved

```
[3,3]((1,0,0),(1,2,0),(3,2,10)); lvl=0; h,r-ind=20,50
  [4,3]((1,0,0),(3,2,5),(3,2,7),(2,1,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,1,3),(3,2,6),(3,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,1,3),(2,1,4),(3,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,1,3),(2,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,1,3),(3,2,5),(3,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,1,3),(3,2,5)); lvl=2; h,r-ind=1,1
  [4,3]((3,2,9),(2,1,5),(3,2,7),(2,1,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,1,5),(7,4,17),(2,1,4)); lvl=2; h,r-ind=1,1
    [4,3]((3,2,8),(3,2,7),(7,4,17),(2,1,4)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,2,7),(5,3,12),(2,1,4)); lvl=3; h,r-ind=1,1
      [3,3]((7,4,17),(5,3,12),(2,1,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,8),(3,2,7),(5,3,12)); lvl=3; h,r-ind=1,1
      [3,3]((7,4,17),(3,2,8),(5,3,12)); lvl=3; h,r-ind=1,1
    [4,3]((3,2,9),(3,2,8),(2,1,5),(7,4,17)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,3,13),(7,4,17),(3,2,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,9),(5,3,13),(3,2,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,5),(3,2,9),(5,3,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,5),(5,3,13),(7,4,17)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,1,5),(2,1,4)); lvl=1; h,r-ind=1,1
  [3,3]((3,2,10),(3,2,9),(2,1,5)); lvl=1; h,r-ind=1,1
  [5,3]((1,1,2),(4,3,10),(2,2,3),(3,2,5),(3,2,7)); lvl=1; h,r-ind=1,1
    [3,3]((4,3,9),(3,2,7),(4,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(4,3,9),(4,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(6,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((4,3,9),(4,3,8),(3,2,7),(3,2,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,2,7),(3,2,6),(7,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,3,8),(3,2,6),(7,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,3,9),(4,3,8),(7,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,3,9),(3,2,7),(7,5,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(4,3,9),(4,3,8),(6,5,11)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,3,9),(5,4,10),(4,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((6,5,11),(5,4,10),(4,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(6,5,11),(5,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,3,9),(5,4,10)); lvl=3; h,r-ind=1,1
    [4,3]((4,3,8),(6,5,11),(3,2,5),(3,2,6)); lvl=2; h,r-ind=1,1
      [4,3]((3,2,6),(15,11,29),(3,2,5),(9,7,16)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((4,3,7),(8,6,15),(9,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,3,7),(18,13,34),(8,6,15)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((3,2,6),(4,3,7),(3,2,5),(18,13,34)); lvl=4; h,r-ind=1,3
          [3,3]((7,5,13),(4,3,7),(3,2,5)); lvl=5; h,r-ind=1,1
          [3,3]((3,2,6),(7,5,13),(3,2,5)); lvl=5; h,r-ind=1,1
          [3,3]((18,13,34),(7,5,13),(4,3,7)); lvl=5; h,r-ind=1,1
          [3,3]((3,2,6),(18,13,34),(7,5,13)); lvl=5; h,r-ind=1,1
        [4,3]((3,2,6),(18,13,34),(8,6,15),(15,11,29)); lvl=4; h,r-ind=1,3
          [3,3]((8,6,15),(11,8,21),(18,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((3,2,6),(11,8,21),(18,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((15,11,29),(8,6,15),(11,8,21)); lvl=5; h,r-ind=1,1
          [3,3]((3,2,6),(15,11,29),(11,8,21)); lvl=5; h,r-ind=1,1
      [4,3]((4,3,8),(15,11,29),(6,5,11),(9,7,16)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((8,6,15),(5,4,9),(9,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((8,6,15),(5,4,9),(21,16,40)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((4,3,8),(15,11,29),(8,6,15),(21,16,40)); lvl=4; h,r-ind=1,3
          [3,3]((12,9,23),(8,6,15),(15,11,29)); lvl=5; h,r-ind=1,1
          [3,3]((4,3,8),(12,9,23),(15,11,29)); lvl=5; h,r-ind=1,1
          [3,3]((21,16,40),(12,9,23),(8,6,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,3,8),(21,16,40),(12,9,23)); lvl=5; h,r-ind=1,1
        [4,3]((4,3,8),(6,5,11),(5,4,9),(21,16,40)); lvl=4; h,r-ind=1,3
          [3,3]((9,7,17),(6,5,11),(5,4,9)); lvl=5; h,r-ind=1,1
          [3,3]((21,16,40),(9,7,17),(5,4,9)); lvl=5; h,r-ind=1,1
          [3,3]((4,3,8),(21,16,40),(9,7,17)); lvl=5; h,r-ind=1,1
          [3,3]((4,3,8),(9,7,17),(6,5,11)); lvl=5; h,r-ind=1,1
      [3,3]((4,3,8),(3,2,6),(15,11,29)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(6,5,11),(3,2,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((3,2,9),(4,3,11),(4,3,10),(3,2,7)); lvl=1; h,r-ind=1,1
    [3,3]((4,3,11),(11,8,29),(4,3,10)); lvl=2; h,r-ind=1,1
    [4,3]((3,2,8),(3,2,7),(11,8,29),(4,3,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,5,18),(4,3,10),(3,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,8),(7,5,18),(3,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((11,8,29),(7,5,18),(4,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,8),(11,8,29),(7,5,18)); lvl=3; h,r-ind=1,1
    [4,3]((3,2,9),(3,2,8),(4,3,11),(11,8,29)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,5,19),(11,8,29),(3,2,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,9),(7,5,19),(3,2,8)); lvl=3; h,r-ind=1,1
      [3,3]((7,5,19),(4,3,11),(11,8,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,9),(7,5,19),(4,3,11)); lvl=3; h,r-ind=1,1
  [3,3]((3,2,10),(3,2,9),(4,3,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(4,3,11),(4,3,10)); lvl=1; h,r-ind=1,1
```

```
  [4,3]((3,2,10),(2,2,5),(1,1,2),(4,3,11)); lvl=1; h,r-ind=1,1
    [3,3]((4,3,12),(2,2,5),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((4,3,11),(4,3,12),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,2,10),(4,3,11),(4,3,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,2,10),(4,3,12),(2,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,0),(2,2,5),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,0),(2,2,3),(3,2,5)); lvl=1; h,r-ind=1,1
    [4,3]((3,2,5),(3,2,4),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((4,3,6),(2,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,4),(4,3,6),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,5),(3,2,4),(4,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,5),(4,3,6),(2,2,3)); lvl=3; h,r-ind=1,1
    [4,3]((3,2,4),(4,2,3),(2,1,2),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((3,2,3),(2,1,2),(4,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,2,3),(4,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,4),(3,2,3),(2,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,2,4),(3,2,3)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(4,2,3),(1,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((2,1,1),(1,1,0),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((4,2,3),(2,1,1),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(4,2,3),(2,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,1,1),(1,1,0)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(4,2,3),(2,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,2,5),(3,2,4),(2,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,2,5),(2,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,0),(1,1,0),(2,2,3)); lvl=1; h,r-ind=3,3; optimized-h
```

20.98 Resolved

```
[3,3]((1,0,0),(1,2,0),(3,8,10)); lvl=0; h,r-ind=20,50
  [4,3]((2,4,3),(4,9,9),(1,2,1),(3,7,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,7),(4,9,9),(5,11,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,3),(4,9,9),(5,11,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,1),(2,4,3),(5,11,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,1),(3,7,7),(5,11,10)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,0),(2,5,5),(1,2,1),(3,7,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,6),(2,5,5),(3,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,6),(1,2,1),(3,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,0),(3,7,6),(1,2,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,0),(3,7,6),(2,5,5)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,6),(3,7,8),(4,9,9),(3,7,7)); lvl=1; h,r-ind=1,1
    [3,3]((6,14,15),(4,9,9),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(6,14,15),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,7),(6,14,15),(4,9,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(3,7,7),(6,14,15)); lvl=2; h,r-ind=1,1
  [4,3]((3,8,10),(2,5,5),(2,5,6),(3,7,7)); lvl=1; h,r-ind=1,1
    [3,3]((4,10,11),(2,5,5),(3,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((4,10,11),(2,5,6),(3,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,10),(4,10,11),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,10),(4,10,11),(2,5,5)); lvl=2; h,r-ind=1,1
  [4,3]((3,6,7),(4,8,9),(2,5,6),(3,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((6,13,15),(3,7,8),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(6,13,15),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(6,13,15),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(2,5,6),(6,13,15)); lvl=2; h,r-ind=1,1
  [4,3]((3,8,10),(2,4,5),(3,6,7),(2,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((4,9,11),(2,4,5),(3,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,11),(2,5,6),(3,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,10),(4,9,11),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,10),(4,9,11),(2,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,1),(2,4,5),(3,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,6),(2,4,5),(3,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(1,1,1),(3,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,5,6),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,1),(2,3,3),(3,6,7),(4,8,9)); lvl=1; h,r-ind=1,1
    [3,3]((3,6,7),(4,8,9),(5,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(4,8,9),(5,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(5,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,6,7),(5,9,10)); lvl=2; h,r-ind=1,1
  [4,3]((2,4,3),(3,5,4),(2,3,2),(1,2,1)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,4),(4,7,5),(2,3,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,1),(4,7,5),(2,3,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,3),(3,5,4),(4,7,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,1),(2,4,3),(4,7,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,0),(1,1,0),(2,3,2),(1,2,1)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((2,3,2),(1,1,0),(2,3,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,0),(1,1,0),(2,3,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,1),(2,3,2),(2,3,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,1),(1,2,0),(2,3,1)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,1),(1,1,0),(2,3,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,1),(1,1,1),(2,3,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,0),(2,2,1),(2,3,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,1),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,0),(1,0,0),(2,2,1)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,1),(2,3,3),(3,5,4),(2,3,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(3,5,4),(4,6,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,2),(3,5,4),(4,6,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,2),(4,6,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(4,6,5)); lvl=2; h,r-ind=1,1
  [6,3]((2,3,3),(4,8,9),(3,7,8),(2,4,3),(3,5,4),(4,9,9)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(4,9,9),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(4,8,9),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,3),(4,9,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,3),(3,5,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(3,5,4)); lvl=2; h,r-ind=1,1
```

20.99 Resolved

```
[3,3]((1,0,0),(1,2,0),(5,2,10)); lvl=0; h,r-ind=20,50
  [3,3]((2,1,3),(11,5,20),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((5,2,10),(3,2,5),(11,5,20),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((4,2,7),(6,3,11),(15,7,28),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((10,5,18),(15,7,28),(6,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(10,5,18),(6,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,2,7),(1,1,1),(10,5,18)); lvl=3; h,r-ind=1,1
      [3,3]((4,2,7),(10,5,18),(15,7,28)); lvl=3; h,r-ind=1,1
    [3,3]((5,2,10),(4,2,7),(15,7,28)); lvl=2; h,r-ind=1,1
    [3,3]((5,2,10),(11,5,20),(4,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,2,5),(6,3,11),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((5,2,10),(3,2,5),(6,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,2,10),(6,3,11),(15,7,28)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,0),(3,2,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((5,2,5),(2,1,3),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,0,0),(1,1,0),(5,2,5),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((2,1,1),(1,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((2,1,1),(5,2,3),(2,1,2),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((4,2,3),(2,1,2),(5,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,1),(4,2,3),(5,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,1),(1,1,1),(4,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(4,2,3),(2,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,1,1),(5,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(5,2,3),(2,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(5,2,5),(2,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,1,1),(1,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,0),(1,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [6,3]((3,1,5),(5,2,5),(2,1,3),(3,1,3),(7,3,13),(11,5,20)); lvl=1; h,r-ind=1,1
    [3,3]((5,2,6),(5,2,5),(3,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((3,1,4),(5,2,7),(5,2,6),(3,1,3)); lvl=2; h,r-ind=1,1
      [3,3]((5,2,6),(5,2,7),(8,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,1,4),(5,2,7),(8,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,1,3),(3,1,4),(8,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,1,3),(5,2,6),(8,3,10)); lvl=3; h,r-ind=1,1
    [6,3]((3,1,4),(3,1,5),(5,2,9),(5,2,7),(9,4,14),(7,3,12)); lvl=2; h,r-ind=1,1
      [3,3]((7,3,12),(7,3,11),(9,4,14)); lvl=3; h,r-ind=1,1
      [3,3]((5,2,7),(7,3,11),(9,4,14)); lvl=3; h,r-ind=1,1
      [4,3]((7,3,12),(12,5,20),(12,5,19),(7,3,11)); lvl=3; h,r-ind=1,1
        [3,3]((12,5,20),(12,5,19),(19,8,31)); lvl=4; h,r-ind=1,1
        [3,3]((7,3,11),(12,5,19),(19,8,31)); lvl=4; h,r-ind=1,1
        [3,3]((7,3,12),(12,5,20),(19,8,31)); lvl=4; h,r-ind=1,1
        [3,3]((7,3,11),(7,3,12),(19,8,31)); lvl=4; h,r-ind=1,1
      [4,3]((10,4,15),(5,2,7),(12,5,19),(7,3,11)); lvl=3; h,r-ind=1,1
        [3,3]((17,7,26),(7,3,11),(5,2,7)); lvl=4; h,r-ind=1,1
        [3,3]((10,4,15),(17,7,26),(5,2,7)); lvl=4; h,r-ind=1,1
        [3,3]((12,5,19),(17,7,26),(7,3,11)); lvl=4; h,r-ind=1,1
        [3,3]((10,4,15),(12,5,19),(17,7,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,1,4),(10,4,15),(5,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,2,9),(7,3,12),(12,5,20)); lvl=3; h,r-ind=1,1
      [4,3]((5,2,8),(5,2,9),(12,5,20),(12,5,19)); lvl=3; h,r-ind=1,1
        [3,3]((5,2,9),(12,5,20),(17,7,28)); lvl=4; h,r-ind=1,1
        [3,3]((12,5,19),(12,5,20),(17,7,28)); lvl=4; h,r-ind=1,1
        [3,3]((5,2,8),(5,2,9),(17,7,28)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((12,5,19),(5,2,8),(17,7,28)); lvl=4; h,r-ind=1,1
      [4,3]((3,1,4),(10,4,15),(5,2,8),(12,5,19)); lvl=3; h,r-ind=1,1
        [3,3]((12,5,19),(10,4,15),(15,6,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,1,4),(10,4,15),(15,6,23)); lvl=4; h,r-ind=1,1
        [3,3]((5,2,8),(3,1,4),(15,6,23)); lvl=4; h,r-ind=1,1
        [3,3]((5,2,8),(12,5,19),(15,6,23)); lvl=4; h,r-ind=1,1
      [3,3]((3,1,5),(5,2,8),(5,2,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,1,4),(3,1,5),(5,2,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,1,3),(5,2,6),(5,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((5,2,7),(9,4,14),(2,1,3),(5,2,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((9,4,14),(7,3,10),(2,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((5,2,6),(7,3,10),(2,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((5,2,7),(9,4,14),(7,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,2,6),(5,2,7),(7,3,10)); lvl=3; h,r-ind=1,1
    [4,3]((9,4,16),(9,4,14),(7,3,12),(2,1,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,3,12),(9,4,14),(9,4,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,3),(9,4,14),(9,4,15)); lvl=3; h,r-ind=1,1
      [3,3]((9,4,16),(2,1,3),(9,4,15)); lvl=3; h,r-ind=1,1
      [3,3]((9,4,16),(7,3,12),(9,4,15)); lvl=3; h,r-ind=1,1
    [3,3]((9,4,16),(11,5,20),(2,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((7,3,13),(9,4,16),(11,5,20)); lvl=2; h,r-ind=1,1
    [4,3]((7,3,13),(5,2,9),(9,4,16),(7,3,12)); lvl=2; h,r-ind=1,1
      [3,3]((5,2,9),(7,3,12),(14,6,25)); lvl=3; h,r-ind=1,1
      [3,3]((9,4,16),(7,3,12),(14,6,25)); lvl=3; h,r-ind=1,1
      [3,3]((7,3,13),(5,2,9),(14,6,25)); lvl=3; h,r-ind=1,1
      [3,3]((9,4,16),(7,3,13),(14,6,25)); lvl=3; h,r-ind=1,1
  [3,3]((5,2,10),(7,3,13),(11,5,20)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(5,2,5),(3,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,2,10),(3,1,5),(7,3,13)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(3,1,5),(3,1,3)); lvl=1; h,r-ind=2,2; optimized-h
```

20.100 Resolved

```
[3,3]((1,0,0),(1,2,0),(7,6,10)); lvl=0; h,r-ind=20,50
  [3,3]((1,1,1),(1,0,0),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,0),(1,1,1),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,3,4),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,3,4),(3,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,3,5),(3,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [6,3]((7,6,9),(4,3,5),(6,5,8),(6,5,7),(4,3,4),(3,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((5,4,6),(4,3,4),(3,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((5,4,6),(4,3,5),(3,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((5,4,6),(6,5,8),(4,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((7,6,9),(5,4,6),(6,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((5,4,6),(6,5,7),(4,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((7,6,9),(5,4,6),(6,5,7)); lvl=2; h,r-ind=1,1
  [3,3]((7,6,10),(4,3,5),(6,5,8)); lvl=1; h,r-ind=1,1
  [3,3]((7,6,10),(7,6,9),(6,5,8)); lvl=1; h,r-ind=1,1
  [3,3]((6,5,7),(4,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((7,6,9),(6,5,7),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((7,6,10),(7,6,9),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((7,6,10),(4,4,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,0),(4,4,5),(1,1,1)); lvl=1; h,r-ind=1,1
```

20.101 Resolved

```
[3,3]((1,0,0),(1,2,0),(9,0,10)); lvl=0; h,r-ind=20,10
  [3,3]((1,0,1),(1,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,1),(1,0,1),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,0),(2,2,1),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,1,5),(2,2,1),(1,0,1)); lvl=1; h,r-ind=1,1
  [3,3]((5,1,5),(9,0,10),(1,0,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,0),(5,1,5),(2,2,1)); lvl=1; h,r-ind=1,1
```

21 H-index = 21

21.0 Classification

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  [3,3]((1,0,0),(0,1,0),(2,0,21))
  [3,3]((1,0,0),(0,1,0),(11,0,21))
  [3,3]((1,0,0),(2,21,0),(0,0,1))
  [3,3]((1,0,0),(11,21,0),(0,0,1))
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  [3,3]((1,0,0),(0,1,0),(0,4,21))
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  [3,3]((1,0,0),(0,1,0),(17,0,21))
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  [3,3]((1,0,0),(0,1,0),(0,8,21))
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  [3,3]((1,0,0),(0,1,0),(0,13,21))
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  [3,3]((1,0,0),(0,1,0),(1,6,21))
  [3,3]((1,0,0),(0,1,0),(1,15,21))
```

```
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  [3,3]((1,0,0),(0,1,0),(11,7,21))
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  [3,3]((1,0,0),(0,1,0),(2,9,21))
```

```
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[3,3]((1,0,0),(0,1,0),(6,14,21))
  [3,3]((1,0,0),(0,1,0),(6,14,21))
  [3,3]((1,0,0),(0,1,0),(14,6,21))
  [3,3]((1,0,0),(2,3,0),(5,4,7))
  [3,3]((1,0,0),(2,3,0),(6,0,7))
  [3,3]((1,0,0),(6,7,0),(0,2,3))
  [3,3]((1,0,0),(6,7,0),(2,0,3))
[3,3]((1,0,0),(0,1,0),(6,20,21))
  [3,3]((1,0,0),(0,1,0),(6,20,21))
  [3,3]((1,0,0),(0,1,0),(20,6,21))
  [3,3]((1,0,0),(2,3,0),(4,4,7))
[3,3]((1,0,0),(0,1,0),(7,8,21))
  [3,3]((1,0,0),(0,1,0),(7,8,21))
  [3,3]((1,0,0),(0,1,0),(8,7,21))
```

```
  [3,3]((1,0,0),(1,7,0),(2,1,3))
[3,3]((1,0,0),(0,1,0),(7,9,21))
  [3,3]((1,0,0),(0,1,0),(7,9,21))
  [3,3]((1,0,0),(0,1,0),(9,7,21))
  [3,3]((1,0,0),(1,3,0),(4,0,7))
  [3,3]((1,0,0),(1,3,0),(4,5,7))
  [3,3]((1,0,0),(2,7,0),(2,1,3))
  [3,3]((1,0,0),(4,7,0),(1,0,3))
[3,3]((1,0,0),(0,1,0),(7,10,21))
  [3,3]((1,0,0),(0,1,0),(7,10,21))
  [3,3]((1,0,0),(0,1,0),(10,7,21))
  [3,3]((1,0,0),(0,1,0),(14,19,21))
  [3,3]((1,0,0),(0,1,0),(19,14,21))
  [3,3]((1,0,0),(3,7,0),(2,1,3))
  [3,3]((1,0,0),(5,7,0),(2,2,3))
[3,3]((1,0,0),(0,1,0),(7,12,21))
  [3,3]((1,0,0),(0,1,0),(7,12,21))
  [3,3]((1,0,0),(0,1,0),(12,7,21))
  [3,3]((1,0,0),(1,3,0),(3,0,7))
  [3,3]((1,0,0),(1,3,0),(3,2,7))
  [3,3]((1,0,0),(3,7,0),(1,0,3))
  [3,3]((1,0,0),(5,7,0),(2,1,3))
[3,3]((1,0,0),(0,1,0),(7,13,21))
  [3,3]((1,0,0),(0,1,0),(7,13,21))
  [3,3]((1,0,0),(0,1,0),(13,7,21))
  [3,3]((1,0,0),(0,1,0),(13,14,21))
  [3,3]((1,0,0),(0,1,0),(14,13,21))
  [3,3]((1,0,0),(6,7,0),(1,2,3))
  [3,3]((1,0,0),(6,7,0),(2,1,3))
[3,3]((1,0,0),(0,1,0),(7,15,21))
  [3,3]((1,0,0),(0,1,0),(7,15,21))
  [3,3]((1,0,0),(0,1,0),(15,7,21))
  [3,3]((1,0,0),(1,3,0),(1,0,7))
  [3,3]((1,0,0),(1,3,0),(1,3,7))
  [3,3]((1,0,0),(1,7,0),(1,0,3))
  [3,3]((1,0,0),(1,7,0),(1,1,3))
[3,3]((1,0,0),(0,1,0),(7,18,21))
  [3,3]((1,0,0),(0,1,0),(7,18,21))
  [3,3]((1,0,0),(0,1,0),(18,7,21))
  [3,3]((1,0,0),(1,3,0),(2,0,7))
  [3,3]((1,0,0),(1,3,0),(2,6,7))
  [3,3]((1,0,0),(2,7,0),(1,0,3))
  [3,3]((1,0,0),(4,7,0),(1,1,3))
[3,3]((1,0,0),(0,1,0),(7,19,21))
  [3,3]((1,0,0),(0,1,0),(7,19,21))
  [3,3]((1,0,0),(0,1,0),(10,14,21))
  [3,3]((1,0,0),(0,1,0),(14,10,21))
  [3,3]((1,0,0),(0,1,0),(19,7,21))
  [3,3]((1,0,0),(3,7,0),(1,2,3))
  [3,3]((1,0,0),(5,7,0),(1,1,3))
[3,3]((1,0,0),(0,1,0),(7,20,21))
  [3,3]((1,0,0),(0,1,0),(7,20,21))
  [3,3]((1,0,0),(0,1,0),(20,7,21))
  [3,3]((1,0,0),(6,7,0),(1,1,3))
[3,3]((1,0,0),(0,1,0),(8,8,21))
  [3,3]((1,0,0),(0,1,0),(8,8,21))
  [3,3]((1,0,0),(0,1,0),(8,20,21))
  [3,3]((1,0,0),(0,1,0),(20,8,21))
[3,3]((1,0,0),(0,1,0),(8,9,21))
  [3,3]((1,0,0),(0,1,0),(8,9,21))
  [3,3]((1,0,0),(0,1,0),(8,12,21))
  [3,3]((1,0,0),(0,1,0),(9,8,21))
  [3,3]((1,0,0),(0,1,0),(12,8,21))
  [3,3]((1,0,0),(2,3,0),(3,2,7))
  [3,3]((1,0,0),(2,3,0),(4,5,7))
[3,3]((1,0,0),(0,1,0),(8,14,21))
  [3,3]((1,0,0),(0,1,0),(8,14,21))
  [3,3]((1,0,0),(0,1,0),(14,8,21))
  [3,3]((1,0,0),(1,7,0),(1,2,3))
[3,3]((1,0,0),(0,1,0),(9,10,21))
  [3,3]((1,0,0),(0,1,0),(9,10,21))
  [3,3]((1,0,0),(0,1,0),(10,9,21))
  [3,3]((1,0,0),(0,1,0),(18,19,21))
  [3,3]((1,0,0),(0,1,0),(19,18,21))
  [3,3]((1,0,0),(1,3,0),(6,5,7))
  [3,3]((1,0,0),(1,3,0),(6,6,7))
[3,3]((1,0,0),(0,1,0),(9,13,21))
  [3,3]((1,0,0),(0,1,0),(9,13,21))
  [3,3]((1,0,0),(0,1,0),(13,9,21))
  [3,3]((1,0,0),(1,3,0),(1,5,7))
```

```
[3,3]((1,0,0),(0,1,0),(9,14,21))
  [3,3]((1,0,0),(0,1,0),(9,14,21))
  [3,3]((1,0,0),(0,1,0),(14,9,21))
  [3,3]((1,0,0),(2,3,0),(1,5,7))
  [3,3]((1,0,0),(2,3,0),(4,0,7))
  [3,3]((1,0,0),(2,7,0),(1,2,3))
  [3,3]((1,0,0),(4,7,0),(2,0,3))
[3,3]((1,0,0),(0,1,0),(9,19,21))
  [3,3]((1,0,0),(0,1,0),(9,19,21))
  [3,3]((1,0,0),(0,1,0),(10,15,21))
  [3,3]((1,0,0),(0,1,0),(15,10,21))
  [3,3]((1,0,0),(0,1,0),(19,9,21))
  [3,3]((1,0,0),(1,3,0),(5,3,7))
  [3,3]((1,0,0),(1,3,0),(5,5,7))
[3,3]((1,0,0),(0,1,0),(9,20,21))
  [3,3]((1,0,0),(0,1,0),(9,20,21))
  [3,3]((1,0,0),(0,1,0),(20,9,21))
  [3,3]((1,0,0),(2,3,0),(5,5,7))
[3,3]((1,0,0),(0,1,0),(10,10,21))
  [3,3]((1,0,0),(0,1,0),(10,10,21))
  [3,3]((1,0,0),(0,1,0),(19,20,21))
  [3,3]((1,0,0),(0,1,0),(20,19,21))
[3,3]((1,0,0),(0,1,0),(10,18,21))
  [3,3]((1,0,0),(0,1,0),(10,18,21))
  [3,3]((1,0,0),(0,1,0),(15,19,21))
  [3,3]((1,0,0),(0,1,0),(18,10,21))
  [3,3]((1,0,0),(0,1,0),(19,15,21))
  [3,3]((1,0,0),(1,3,0),(3,3,7))
  [3,3]((1,0,0),(1,3,0),(3,6,7))
[3,3]((1,0,0),(0,1,0),(10,20,21))
  [3,3]((1,0,0),(0,1,0),(10,20,21))
  [3,3]((1,0,0),(0,1,0),(19,19,21))
  [3,3]((1,0,0),(0,1,0),(20,10,21))
[3,3]((1,0,0),(0,1,0),(12,13,21))
  [3,3]((1,0,0),(0,1,0),(12,13,21))
  [3,3]((1,0,0),(0,1,0),(13,12,21))
  [3,3]((1,0,0),(1,3,0),(6,2,7))
[3,3]((1,0,0),(0,1,0),(12,14,21))
  [3,3]((1,0,0),(0,1,0),(12,14,21))
  [3,3]((1,0,0),(0,1,0),(14,12,21))
  [3,3]((1,0,0),(2,3,0),(3,0,7))
  [3,3]((1,0,0),(2,3,0),(6,2,7))
  [3,3]((1,0,0),(3,7,0),(2,0,3))
  [3,3]((1,0,0),(5,7,0),(1,2,3))
[3,3]((1,0,0),(0,1,0),(12,20,21))
  [3,3]((1,0,0),(0,1,0),(12,20,21))
  [3,3]((1,0,0),(0,1,0),(20,12,21))
  [3,3]((1,0,0),(2,3,0),(2,2,7))
[3,3]((1,0,0),(0,1,0),(13,13,21))
  [3,3]((1,0,0),(0,1,0),(13,13,21))
  [3,3]((1,0,0),(0,1,0),(13,20,21))
  [3,3]((1,0,0),(0,1,0),(20,13,21))
[3,3]((1,0,0),(0,1,0),(13,15,21))
  [3,3]((1,0,0),(0,1,0),(13,15,21))
  [3,3]((1,0,0),(0,1,0),(15,13,21))
  [3,3]((1,0,0),(1,3,0),(2,3,7))
[3,3]((1,0,0),(0,1,0),(13,18,21))
  [3,3]((1,0,0),(0,1,0),(13,18,21))
  [3,3]((1,0,0),(0,1,0),(18,13,21))
  [3,3]((1,0,0),(1,3,0),(4,6,7))
[3,3]((1,0,0),(0,1,0),(14,15,21))
  [3,3]((1,0,0),(0,1,0),(14,15,21))
  [3,3]((1,0,0),(0,1,0),(15,14,21))
  [3,3]((1,0,0),(2,3,0),(1,0,7))
  [3,3]((1,0,0),(2,3,0),(2,3,7))
  [3,3]((1,0,0),(1,7,0),(2,0,3))
  [3,3]((1,0,0),(1,7,0),(2,2,3))
[3,3]((1,0,0),(0,1,0),(14,18,21))
  [3,3]((1,0,0),(0,1,0),(14,18,21))
  [3,3]((1,0,0),(0,1,0),(18,14,21))
  [3,3]((1,0,0),(2,3,0),(2,0,7))
  [3,3]((1,0,0),(2,3,0),(4,6,7))
  [3,3]((1,0,0),(2,7,0),(2,0,3))
  [3,3]((1,0,0),(4,7,0),(2,2,3))
[3,3]((1,0,0),(0,1,0),(14,20,21))
  [3,3]((1,0,0),(0,1,0),(14,20,21))
  [3,3]((1,0,0),(0,1,0),(20,14,21))
  [3,3]((1,0,0),(6,7,0),(2,2,3))
[3,3]((1,0,0),(0,1,0),(15,20,21))
  [3,3]((1,0,0),(0,1,0),(15,20,21))
```

```
  [3,3]((1,0,0),(0,1,0),(20,15,21))
  [3,3]((1,0,0),(2,3,0),(3,3,7))
[3,3]((1,0,0),(0,1,0),(18,20,21))
  [3,3]((1,0,0),(0,1,0),(18,20,21))
  [3,3]((1,0,0),(0,1,0),(20,18,21))
  [3,3]((1,0,0),(2,3,0),(6,6,7))
[3,3]((1,0,0),(0,1,0),(20,20,21))
  [3,3]((1,0,0),(0,1,0),(20,20,21))
```

21.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,21)); lvl=0; h,r-ind=21,21
  [3,3]((1,0,0),(0,2,21),(0,1,0)); lvl=1; h,r-ind=21,21
    [3,3]((1,0,0),(0,1,10),(0,2,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,2,11),(0,1,10)); lvl=2; h,r-ind=9,9; optimized-h
    [3,3]((1,0,0),(0,1,0),(0,2,11)); lvl=2; h,r-ind=11,11; optimized-h
  [3,3]((1,0,0),(0,1,21),(0,2,21)); lvl=1; h,r-ind=21,21
    [3,3]((1,0,0),(0,1,21),(0,2,31)); lvl=2; h,r-ind=11,11; optimized-h
    [3,3]((1,0,0),(0,1,11),(0,2,31)); lvl=2; h,r-ind=9,9; optimized-h
    [3,3]((1,0,0),(0,1,11),(0,2,21)); lvl=2; h,r-ind=1,1
```

21.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,2,21)); lvl=0; h,r-ind=21,21
  [3,3]((1,0,0),(0,1,10),(0,2,21)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,2,11),(0,1,10)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((1,0,0),(0,1,0),(0,2,11)); lvl=1; h,r-ind=11,11; optimized-h
```

21.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,4,21)); lvl=0; h,r-ind=21,21
  [3,3]((1,0,0),(0,1,5),(0,1,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,1,0),(0,1,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,4,21),(0,1,5)); lvl=1; h,r-ind=1,1
```

21.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,5,21)); lvl=0; h,r-ind=21,21
  [3,3]((1,0,0),(0,1,0),(0,2,5)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,1,4),(0,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,5,21),(0,1,4)); lvl=1; h,r-ind=1,1
```

21.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,8,21)); lvl=0; h,r-ind=21,21
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,3,7),(0,2,3)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,7,18),(0,3,7)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,7,18),(0,8,21)); lvl=1; h,r-ind=3,3; optimized-h
```

21.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,10,21)); lvl=0; h,r-ind=21,21
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,2),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,10,21),(0,1,2)); lvl=1; h,r-ind=1,1
```

21.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,13,21)); lvl=0; h,r-ind=21,21
  [3,3]((1,0,0),(0,7,11),(0,3,4)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,1,1),(0,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,5,8),(0,7,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,5,8),(0,13,21)); lvl=1; h,r-ind=1,1
```

21.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,20,21)); lvl=0; h,r-ind=21,21
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,1),(0,20,21)); lvl=1; h,r-ind=1,1
```

21.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,21)); lvl=0; h,r-ind=21,441
  [3,3]((1,0,0),(2,2,21),(1,1,20)); lvl=1; h,r-ind=19,19; optimized-h
  [3,3]((0,1,0),(2,2,21),(1,1,20)); lvl=1; h,r-ind=19,19; optimized-h
  [3,3]((1,1,21),(0,1,0),(1,1,20)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,21),(1,0,0),(1,1,20)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,21)); lvl=1; h,r-ind=21,441
    [3,3]((2,2,11),(1,1,10),(0,1,0)); lvl=2; h,r-ind=9,9; optimized-h
    [3,3]((2,2,21),(1,1,10),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,11),(0,1,0)); lvl=2; h,r-ind=11,121; optimized-h
    [3,3]((1,0,0),(2,2,11),(1,1,10)); lvl=2; h,r-ind=9,9; optimized-h
    [3,3]((2,2,21),(1,0,0),(1,1,10)); lvl=2; h,r-ind=1,1
```

21.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,21)); lvl=0; h,r-ind=21,441
  [5,3]((1,2,19),(2,4,21),(2,2,11),(2,3,30),(1,1,10)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,29),(4,6,45),(2,2,15),(1,1,10)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,30),(1,1,8),(2,2,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,23),(3,4,30),(1,1,8)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,23),(4,6,51),(2,2,17),(1,1,8)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,34),(2,2,17),(5,6,50)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [4,3]((1,1,8),(9,11,91),(2,2,17),(5,6,50)); lvl=4; h,r-ind=1,1
          [3,3]((6,7,58),(9,11,91),(5,6,50)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,17),(6,7,58),(5,6,50)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,8),(2,2,17),(6,7,58)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,8),(6,7,58),(9,11,91)); lvl=5; h,r-ind=1,1
        [5,3]((2,3,23),(3,4,33),(4,6,49),(1,1,8),(9,11,91)); lvl=4; h,r-ind=1,1
          [4,3]((9,12,98),(4,6,49),(5,7,57),(3,4,33)); lvl=5; h,r-ind=1,1
            [3,3]((5,7,57),(4,6,49),(8,11,90)); lvl=6; h,r-ind=1,1
            [3,3]((3,4,33),(4,6,49),(8,11,90)); lvl=6; h,r-ind=1,1
            [3,3]((9,12,98),(5,7,57),(8,11,90)); lvl=6; h,r-ind=1,1
            [3,3]((3,4,33),(9,12,98),(8,11,90)); lvl=6; h,r-ind=1,1
          [4,3]((4,5,41),(9,12,98),(10,13,106),(3,4,33)); lvl=5; h,r-ind=1,1
            [3,3]((13,17,139),(9,12,98),(10,13,106)); lvl=6; h,r-ind=1,1
            [3,3]((4,5,41),(13,17,139),(10,13,106)); lvl=6; h,r-ind=1,1
            [3,3]((13,17,139),(3,4,33),(9,12,98)); lvl=6; h,r-ind=1,1
            [3,3]((4,5,41),(13,17,139),(3,4,33)); lvl=6; h,r-ind=1,1
          [3,3]((9,11,91),(4,5,41),(3,4,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,8),(9,11,91),(4,5,41)); lvl=5; h,r-ind=1,1
          [5,3]((9,12,98),(10,13,106),(2,3,24),(7,9,73),(5,7,57)); lvl=5; h,r-ind=1,1
            [3,3]((7,9,73),(6,8,65),(10,13,106)); lvl=6; h,r-ind=1,1
            [3,3]((9,12,98),(6,8,65),(10,13,106)); lvl=6; h,r-ind=1,1
            [3,3]((9,12,98),(5,7,57),(6,8,65)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,24),(7,9,73),(6,8,65)); lvl=6; h,r-ind=1,1
            [3,3]((5,7,57),(2,3,24),(6,8,65)); lvl=6; h,r-ind=1,1
          [3,3]((4,6,49),(2,3,24),(5,7,57)); lvl=5; h,r-ind=1,1
          [4,3]((2,3,23),(1,1,8),(2,3,24),(7,9,73)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((1,1,8),(7,9,73),(3,4,32)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,24),(7,9,73),(3,4,32)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,23),(1,1,8),(3,4,32)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,24),(2,3,23),(3,4,32)); lvl=6; h,r-ind=1,1
          [4,3]((1,1,8),(4,5,41),(10,13,106),(7,9,73)); lvl=5; h,r-ind=1,1
            [3,3]((4,5,41),(10,13,106),(11,14,114)); lvl=6; h,r-ind=1,1
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          [3,3]((7,9,73),(10,13,106),(11,14,114)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,8),(4,5,41),(11,14,114)); lvl=6; h,r-ind=1,1
          [3,3]((7,9,73),(1,1,8),(11,14,114)); lvl=6; h,r-ind=1,1
      [5,3]((2,3,25),(3,4,33),(9,11,91),(3,4,34),(5,6,50)); lvl=4; h,r-ind=1,1
        [3,3]((8,10,83),(9,11,91),(5,6,50)); lvl=5; h,r-ind=1,1
        [4,3]((7,9,75),(8,10,83),(4,5,42),(5,6,50)); lvl=5; h,r-ind=1,1
          [3,3]((8,10,83),(5,6,50),(12,15,125)); lvl=6; h,r-ind=1,1
          [3,3]((4,5,42),(5,6,50),(12,15,125)); lvl=6; h,r-ind=1,1
          [3,3]((7,9,75),(8,10,83),(12,15,125)); lvl=6; h,r-ind=1,1
          [3,3]((4,5,42),(7,9,75),(12,15,125)); lvl=6; h,r-ind=1,1
        [4,3]((3,4,33),(12,16,133),(7,9,75),(8,10,83)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((10,13,108),(7,9,75),(12,16,133)); lvl=6; h,r-ind=1,1
          [3,3]((3,4,33),(10,13,108),(12,16,133)); lvl=6; h,r-ind=1,1
          [3,3]((8,10,83),(10,13,108),(7,9,75)); lvl=6; h,r-ind=1,1
          [3,3]((3,4,33),(8,10,83),(10,13,108)); lvl=6; h,r-ind=1,1
        [5,3]((2,3,25),(12,16,133),(7,9,75),(3,4,34),(4,5,42)); lvl=5; h,r-ind=1,1
          [3,3]((7,9,75),(13,17,142),(4,5,42)); lvl=6; h,r-ind=1,1
          [4,3]((15,20,167),(6,8,67),(13,17,142),(4,5,42)); lvl=6; h,r-ind=1,1
            [3,3]((6,8,67),(4,5,42),(19,25,209)); lvl=7; h,r-ind=1,1
            [3,3]((13,17,142),(4,5,42),(19,25,209)); lvl=7; h,r-ind=1,1
            [3,3]((15,20,167),(6,8,67),(19,25,209)); lvl=7; h,r-ind=1,1
            [3,3]((13,17,142),(15,20,167),(19,25,209)); lvl=7; h,r-ind=1,1
          [3,3]((6,8,67),(3,4,34),(4,5,42)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,25),(6,8,67),(3,4,34)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,25),(15,20,167),(6,8,67)); lvl=6; h,r-ind=1,1
          [4,3]((9,12,100),(15,20,167),(7,9,75),(13,17,142)); lvl=6; h,r-ind=1,1
            [3,3]((13,17,142),(15,20,167),(22,29,242)); lvl=7; h,r-ind=1,1
            [3,3]((9,12,100),(15,20,167),(22,29,242)); lvl=7; h,r-ind=1,1
            [3,3]((7,9,75),(9,12,100),(22,29,242)); lvl=7; h,r-ind=1,1
            [3,3]((7,9,75),(13,17,142),(22,29,242)); lvl=7; h,r-ind=1,1
          [3,3]((12,16,133),(9,12,100),(7,9,75)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,25),(12,16,133),(9,12,100)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,25),(9,12,100),(15,20,167)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,33),(8,10,83),(9,11,91)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,25),(3,4,33),(12,16,133)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,25),(4,6,51),(3,4,34)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,25),(3,4,33),(4,6,49)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,29),(4,6,51),(1,1,10),(2,2,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,34),(2,2,17),(1,1,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,26),(3,4,34),(1,1,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,26),(2,3,27),(1,1,9)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,29),(2,3,27),(1,1,10),(1,1,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,10),(1,1,9),(4,5,47)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,28),(2,3,27),(1,1,9),(4,5,47)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,37),(1,1,9),(2,3,27)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,28),(3,4,37),(2,3,27)); lvl=6; h,r-ind=1,1
          [3,3]((4,5,47),(3,4,37),(1,1,9)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,28),(4,5,47),(3,4,37)); lvl=6; h,r-ind=1,1
        [4,3]((2,3,29),(2,3,28),(1,1,10),(4,5,47)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,38),(4,5,47),(2,3,28)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,29),(3,4,38),(2,3,28)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,10),(2,3,29),(3,4,38)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,10),(3,4,38),(4,5,47)); lvl=6; h,r-ind=1,1
      [3,3]((2,3,26),(4,6,51),(3,4,34)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,23),(4,6,45),(3,4,30)); lvl=3; h,r-ind=1,1
[3,3]((2,3,29),(2,3,30),(1,1,10)); lvl=2; h,r-ind=1,1
[3,3]((1,2,19),(2,3,29),(2,3,30)); lvl=2; h,r-ind=1,1
[4,3]((1,2,19),(2,3,29),(4,6,45),(2,4,29)); lvl=2; h,r-ind=1,1
  [4,3]((2,4,33),(1,2,15),(2,3,23),(4,6,51)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,16),(4,6,49),(2,3,23),(1,2,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,15),(2,3,24),(4,7,55),(2,3,23)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,7,55),(3,5,39),(2,3,24)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,23),(3,5,39),(2,3,24)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,15),(2,3,23),(3,5,39)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,15),(4,7,55),(3,5,39)); lvl=6; h,r-ind=1,1
      [3,3]((1,2,16),(2,3,24),(4,7,55)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,15),(1,2,16),(4,7,55)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,16),(4,6,49),(2,3,24)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,16),(2,3,25),(4,6,49)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,16),(3,5,42),(2,3,25)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,42),(4,6,51),(2,3,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,16),(3,5,42),(2,4,33)); lvl=4; h,r-ind=1,1
  [4,3]((1,2,19),(2,4,33),(2,3,29),(4,6,51)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,35),(1,2,17),(2,3,26),(2,3,27)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,44),(1,2,17),(2,3,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,27),(3,5,44),(2,3,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,35),(2,3,27),(3,5,44)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,35),(3,5,44),(1,2,17)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,19),(2,4,35),(2,3,29),(2,3,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,18),(2,3,28),(2,3,27)); lvl=5; h,r-ind=1,1
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          [3,3]((2,4,35),(1,2,18),(2,3,27)); lvl=5; h,r-ind=1,1
          [4,3]((1,2,19),(1,2,18),(2,3,28),(2,3,29)); lvl=5; h,r-ind=1,1
            [3,3]((1,2,18),(2,3,28),(3,5,47)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,29),(2,3,28),(3,5,47)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,19),(1,2,18),(3,5,47)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,29),(1,2,19),(3,5,47)); lvl=6; h,r-ind=1,1
        [3,3]((3,5,42),(1,2,17),(2,3,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,42),(4,6,51),(2,3,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,42),(2,4,33),(1,2,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,37),(1,2,15),(2,3,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,37),(4,6,45),(2,3,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,37),(2,4,29),(1,2,15)); lvl=3; h,r-ind=1,1
    [5,3]((1,2,11),(4,6,45),(2,4,29),(2,2,15),(1,1,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,11),(1,2,13),(1,1,6),(1,1,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,6),(3,4,25),(1,1,7)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,12),(1,2,13),(3,4,25),(1,1,7)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,19),(1,1,7),(1,2,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,12),(2,3,19),(1,2,13)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,25),(2,3,19),(1,1,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,12),(3,4,25),(2,3,19)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,11),(1,2,12),(1,1,6),(3,4,25)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,2,12),(3,4,25),(2,3,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(3,4,25),(2,3,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,11),(1,2,12),(2,3,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(1,2,11),(2,3,18)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,22),(1,2,14),(1,2,13),(1,1,7)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,21),(1,2,14),(1,2,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,7),(2,3,21),(1,2,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,22),(2,3,21),(1,2,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,7),(2,3,22),(2,3,21)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,30),(2,3,22),(2,2,15),(1,1,7)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,37),(1,1,7),(2,2,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,30),(4,5,37),(2,2,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,22),(4,5,37),(1,1,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,30),(2,3,22),(4,5,37)); lvl=4; h,r-ind=1,1
      [4,3]((2,4,29),(3,5,37),(2,3,22),(1,2,14)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,22),(3,5,37),(4,7,51)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,29),(3,5,37),(4,7,51)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,14),(2,4,29),(4,7,51)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,14),(2,3,22),(4,7,51)); lvl=4; h,r-ind=1,1
      [4,3]((4,6,45),(3,4,30),(3,5,37),(2,3,22)); lvl=3; h,r-ind=1,1
        [3,3]((6,9,67),(3,4,30),(2,3,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,37),(6,9,67),(2,3,22)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,45),(3,5,37),(6,9,67)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,45),(6,9,67),(3,4,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,11),(2,3,16),(1,1,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,11),(2,3,16),(1,1,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,21),(1,2,11),(2,3,16)); lvl=2; h,r-ind=1,1
[3,3]((1,2,21),(2,3,30),(1,1,10)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(1,2,21),(1,1,10)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(2,2,11),(1,1,10)); lvl=1; h,r-ind=9,9; optimized-h
[3,3]((1,2,21),(1,2,19),(2,3,30)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((0,1,0),(1,2,19),(2,4,21)); lvl=1; h,r-ind=17,17; optimized-h
[3,3]((1,2,21),(0,1,0),(1,2,19)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((1,0,0),(0,1,0),(2,4,21),(2,2,11)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,15),(1,2,10),(2,3,16),(2,4,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,10),(2,4,21),(3,5,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,16),(2,4,21),(3,5,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,15),(1,2,10),(3,5,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,16),(2,3,15),(3,5,26)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,10),(0,1,0),(2,4,21)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,15),(1,1,5),(2,2,11),(2,3,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,21),(2,2,11),(1,1,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,15),(3,4,21),(1,1,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,16),(3,4,21),(2,2,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,15),(2,3,16),(3,4,21)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,5),(2,2,11)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,15),(1,2,10),(1,2,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,10),(0,1,0),(1,2,9)); lvl=2; h,r-ind=1,1
  [5,3]((2,3,15),(1,1,5),(1,2,9),(1,1,3),(2,4,11)); lvl=2; h,r-ind=1,1
    [5,3]((1,2,6),(1,2,7),(1,1,3),(1,1,4),(4,6,23)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,11),(4,6,21),(3,4,14),(1,1,4)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,25),(3,4,14),(4,6,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,11),(5,7,25),(4,6,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(2,3,11),(5,7,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(5,7,25),(3,4,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,14),(1,1,4)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,23),(2,3,11),(1,1,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(4,6,23),(2,3,11)); lvl=4; h,r-ind=1,1
      [5,3]((1,2,6),(1,1,3),(3,5,17),(4,6,21),(3,4,14)); lvl=4; h,r-ind=1,1
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        [3,3]((2,3,10),(4,6,21),(3,4,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(2,3,10),(3,4,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(1,1,3),(2,3,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,10),(3,5,17),(4,6,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(2,3,10),(3,5,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,7),(1,2,6),(3,5,17)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,7),(2,3,11),(3,5,17),(4,6,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(4,6,21),(5,8,28)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,17),(4,6,21),(5,8,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(2,3,11),(5,8,28)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,17),(1,2,7),(5,8,28)); lvl=5; h,r-ind=1,1
    [4,3]((1,1,5),(2,3,14),(1,1,4),(4,6,23)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,4),(5,6,26),(2,3,12),(4,6,25)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,17),(6,8,33),(2,3,12),(4,6,25)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((6,8,33),(5,7,29),(2,3,12)); lvl=6; h,r-ind=1,1
          [3,3]((4,6,25),(5,7,29),(2,3,12)); lvl=6; h,r-ind=1,1
          [3,3]((3,4,17),(4,6,25),(5,7,29)); lvl=6; h,r-ind=1,1
          [3,3]((3,4,17),(6,8,33),(5,7,29)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,4),(3,4,17),(6,8,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(3,4,17),(5,6,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(6,8,33),(2,3,12)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,5),(5,6,26),(2,3,14),(4,6,25)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,4,17),(2,3,13),(7,9,40)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,1,5),(2,3,14),(2,3,13),(7,9,40)); lvl=5; h,r-ind=1,3
          [3,3]((2,3,13),(3,4,18),(2,3,14)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,5),(3,4,18),(2,3,14)); lvl=6; h,r-ind=1,1
          [3,3]((7,9,40),(2,3,13),(3,4,18)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,5),(7,9,40),(3,4,18)); lvl=6; h,r-ind=1,1
        [4,3]((1,1,5),(5,6,26),(3,4,17),(7,9,40)); lvl=5; h,r-ind=1,3
          [3,3]((4,5,22),(3,4,17),(5,6,26)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,5),(4,5,22),(5,6,26)); lvl=6; h,r-ind=1,1
          [3,3]((7,9,40),(4,5,22),(3,4,17)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,5),(7,9,40),(4,5,22)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,17),(4,6,25),(2,3,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,4),(4,6,23),(2,3,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,5),(1,1,4),(5,6,26)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,15),(2,3,14),(1,2,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,15),(1,1,5),(2,3,14)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,14),(1,2,9),(1,2,7),(4,6,23)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,12),(4,6,25),(1,2,7),(1,2,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,20),(1,2,8),(1,2,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,12),(3,5,20),(1,2,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,12),(4,6,25),(3,5,20)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,25),(3,5,20),(1,2,8)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,14),(4,6,25),(1,2,9),(1,2,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,9),(4,7,30),(1,2,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,13),(4,7,30),(1,2,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,13),(4,6,25),(1,2,8)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,13),(2,3,14),(1,2,9),(4,7,30)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,22),(2,3,14),(1,2,9)); lvl=6; h,r-ind=1,1
          [3,3]((4,7,30),(3,5,22),(1,2,9)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,13),(4,7,30),(3,5,22)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,13),(3,5,22),(2,3,14)); lvl=6; h,r-ind=1,1
      [3,3]((4,6,23),(2,3,12),(1,2,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,11),(1,2,6),(1,1,3)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,5),(1,1,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,0,0),(0,1,0),(1,1,3),(2,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,4),(0,1,0)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(0,1,0)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(0,1,0)); lvl=3; h,r-ind=3,9; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((1,0,0),(1,2,3),(2,3,7),(2,2,5),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,3),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(1,2,3),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,7),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(2,2,5),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,5),(1,1,2)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,11),(1,2,5),(0,1,0)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(2,4,11),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(1,2,5),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,3),(2,3,7),(2,2,5),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,5),(2,3,7),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,7),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(2,2,5),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(1,1,3),(3,4,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(2,2,5)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,9),(2,4,11)); lvl=2; h,r-ind=7,7; alert-h-inc; alert-r-inc; optimized-h
```

21.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,21)); lvl=0; h,r-ind=21,147
  [3,3]((2,6,21),(0,1,0),(1,0,0)); lvl=1; h,r-ind=21,147
    [3,3]((1,3,10),(1,2,7),(2,6,21)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,10),(2,6,21)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,10),(2,5,15),(1,2,6),(1,2,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,16),(2,5,15),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(2,5,16),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,10),(1,2,7),(2,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,10),(2,5,16),(2,5,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,6),(1,2,7)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,3,8),(1,3,10),(2,5,15)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((0,1,0),(1,3,8),(1,3,10)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((0,1,0),(1,3,8),(2,6,11)); lvl=2; h,r-ind=5,5; optimized-h
    [5,3]((1,3,8),(2,6,11),(1,2,4),(2,5,15),(1,2,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,5),(2,5,12),(2,5,14),(1,2,6)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,6),(4,9,24),(2,5,13),(2,5,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,7,19),(4,9,24),(2,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,14),(3,7,19),(2,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(2,5,14),(3,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(3,7,19),(4,9,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(1,2,6),(4,9,24)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,5),(4,9,24),(2,5,12),(2,5,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,12),(3,7,18),(2,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,24),(3,7,18),(2,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(2,5,12),(3,7,18)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,24),(1,2,5),(3,7,18)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,15),(2,5,14),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(2,5,15),(2,5,14)); lvl=3; h,r-ind=1,1
      [5,3]((2,6,13),(1,3,6),(1,2,4),(1,2,5),(2,5,12)); lvl=3; h,r-ind=1,1
        [4,3]((2,5,11),(5,13,29),(4,11,24),(1,3,6)); lvl=4; h,r-ind=1,1
          [3,3]((4,11,24),(5,13,29),(6,16,35)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,11),(5,13,29),(6,16,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,6),(2,5,11),(6,16,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,6),(4,11,24),(6,16,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(2,5,11),(1,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,13),(4,11,24),(1,3,6)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,11),(5,13,29),(1,2,5),(4,10,23)); lvl=4; h,r-ind=1,1
          [3,3]((4,10,23),(5,13,29),(6,15,34)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,11),(5,13,29),(6,15,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(2,5,11),(6,15,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(4,10,23),(6,15,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(2,5,11),(1,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(1,2,5),(4,10,23)); lvl=4; h,r-ind=1,1
        [5,3]((2,6,13),(2,5,12),(5,13,29),(4,11,24),(4,10,23)); lvl=4; h,r-ind=1,1
          [3,3]((3,8,18),(4,10,23),(2,5,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,13),(3,8,18),(2,5,12)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,18),(4,10,23),(5,13,29)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,18),(4,11,24),(5,13,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,13),(3,8,18),(4,11,24)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,11),(1,3,6),(1,2,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,8),(2,6,13),(2,5,12),(2,5,14)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,7),(2,6,13),(2,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(2,5,13),(2,5,12)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,7),(1,3,8),(2,5,14),(2,5,13)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,8),(2,5,14),(3,8,21)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,13),(2,5,14),(3,8,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(1,3,8),(3,8,21)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,13),(1,3,7),(3,8,21)); lvl=5; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,4),(1,2,6)); lvl=2; h,r-ind=4,2; optimized-h
    [4,3]((1,0,0),(0,1,0),(2,6,11),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,3),(0,1,0)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,0,0),(1,3,3),(0,1,0)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,6,11),(1,3,5),(0,1,0)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,6,11),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,5),(1,3,3)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,0,0),(1,1,2),(1,2,3),(1,3,3)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,2),(4,6,9),(1,2,3)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,3),(1,3,3),(4,6,9),(1,2,3)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((1,2,2),(1,3,3),(1,2,3),(5,9,12)); lvl=5; h,r-ind=1,3
            [3,3]((2,4,5),(1,3,3),(1,2,3)); lvl=6; h,r-ind=1,1
            [3,3]((5,9,12),(2,4,5),(1,2,3)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,2),(5,9,12),(2,4,5)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,2),(2,4,5),(1,3,3)); lvl=6; h,r-ind=1,1
          [4,3]((2,3,4),(4,6,9),(1,2,3),(5,9,12)); lvl=5; h,r-ind=1,3
            [3,3]((3,5,7),(4,6,9),(1,2,3)); lvl=6; h,r-ind=1,1
            [3,3]((5,9,12),(3,5,7),(1,2,3)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,4),(5,9,12),(3,5,7)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,4),(3,5,7),(4,6,9)); lvl=6; h,r-ind=1,1
```

```
        [3,3]((2,3,4),(1,2,2),(5,9,12)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,3,3),(2,3,4),(1,2,2)); lvl=5; h,r-ind=1,1
      [4,3]((1,0,0),(2,3,3),(1,1,2),(4,6,9)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,1,2),(5,6,9),(2,3,4),(4,6,9)); lvl=5; h,r-ind=1,3
          [3,3]((2,3,4),(3,4,6),(5,6,9)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,2),(3,4,6),(5,6,9)); lvl=6; h,r-ind=1,1
          [3,3]((4,6,9),(1,1,2),(3,4,6)); lvl=6; h,r-ind=1,1
          [3,3]((4,6,9),(2,3,4),(3,4,6)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,1),(5,6,9),(2,3,4)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,1,1),(2,3,3),(2,3,4)); lvl=5; h,r-ind=1,1
        [4,3]((1,0,0),(1,1,2),(1,1,1),(5,6,9)); lvl=5; h,r-ind=1,3
          [3,3]((1,1,2),(2,2,3),(5,6,9)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(5,6,9)); lvl=6; h,r-ind=1,1
          [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=6; h,r-ind=1,1
          [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=6; h,r-ind=1,1
    [4,3]((1,1,2),(1,2,3),(1,2,4),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,5),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,1,2),(2,4,7)); lvl=4; h,r-ind=1,1
[4,3]((2,3,21),(2,6,21),(1,3,18),(1,0,0)); lvl=1; h,r-ind=9,3
  [4,3]((2,3,12),(1,2,7),(1,3,11),(1,2,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,15),(1,2,7),(1,3,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,15),(1,2,8),(1,3,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,12),(2,4,15),(1,2,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,12),(2,4,15),(1,2,7)); lvl=3; h,r-ind=1,1
  [4,3]((2,4,19),(1,3,14),(1,3,11),(1,2,8)); lvl=2; h,r-ind=3,1
    [4,3]((1,2,9),(1,2,8),(1,3,11),(2,6,25)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,29),(1,2,8),(1,3,12),(1,3,11)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,12),(1,3,11),(2,5,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,8),(1,3,11),(2,5,20)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,29),(1,3,12),(2,5,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,8),(3,7,29),(2,5,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,9),(3,7,29),(1,3,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,25),(1,2,9),(1,3,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,9),(3,7,29),(1,2,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,9),(1,3,14),(2,6,25)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((1,2,9),(2,4,19),(1,3,14)); lvl=3; h,r-ind=1,1
  [6,3]((2,3,15),(1,3,18),(1,2,13),(2,3,18),(2,4,19),(1,3,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,12),(1,2,13),(1,3,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,11),(1,2,12),(1,3,16),(1,3,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,12),(3,7,40),(1,3,17),(1,3,18)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,29),(3,7,40),(1,3,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,18),(2,5,29),(1,3,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,12),(1,3,18),(2,5,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,12),(2,5,29),(3,7,40)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,11),(1,2,12),(3,7,40)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,11),(3,7,40),(1,3,16),(1,3,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,16),(1,3,17),(2,5,28)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,40),(1,3,17),(2,5,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,11),(3,7,40),(2,5,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,11),(1,3,16),(2,5,28)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,11),(1,3,14),(1,2,10),(1,3,16)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,10),(3,7,36),(1,3,15),(1,3,14)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,25),(3,7,36),(1,3,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,14),(2,5,25),(1,3,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,10),(1,3,14),(2,5,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,10),(2,5,25),(3,7,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,11),(1,2,10),(3,7,36)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,16),(1,2,11),(3,7,36),(1,3,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,26),(1,2,11),(3,7,36)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,26),(1,3,15),(3,7,36)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,16),(2,5,26),(1,3,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,16),(2,5,26),(1,2,11)); lvl=5; h,r-ind=1,1
    [3,3]((2,4,19),(1,3,14),(1,2,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,15),(2,4,19),(1,2,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,15),(4,6,33),(1,2,11),(1,2,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,11),(2,3,16),(4,6,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,11),(4,7,37),(2,3,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,10),(2,3,15),(4,7,37),(2,3,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,26),(2,3,15),(2,3,16)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,37),(3,5,26),(2,3,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,10),(4,7,37),(3,5,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,10),(3,5,26),(2,3,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,10),(1,2,11),(4,7,37)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,12),(1,2,13),(2,3,18)); lvl=3; h,r-ind=1,1
    [4,3]((4,6,33),(1,2,11),(1,2,12),(2,3,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,11),(1,2,12),(4,7,40)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,18),(2,3,17),(1,2,12),(4,7,40)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,29),(2,3,17),(4,7,40)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((1,2,12),(3,5,29),(4,7,40)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,18),(1,2,12),(3,5,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,18),(3,5,29),(2,3,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,17),(1,2,11),(4,7,40)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,33),(2,3,17),(1,2,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,7),(1,2,13),(2,3,18)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((2,3,21),(1,1,7),(1,2,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,15),(2,3,12),(2,4,19),(1,2,8)); lvl=2; h,r-ind=3,1
      [4,3]((2,3,12),(4,6,27),(1,2,8),(1,2,9)); lvl=3; h,r-ind=1,1
        [3,3]((4,7,30),(1,2,9),(1,2,8)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,12),(2,3,13),(4,7,30),(1,2,8)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,13),(4,7,30),(3,5,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,8),(4,7,30),(3,5,21)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,12),(2,3,13),(3,5,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,8),(2,3,12),(3,5,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,13),(4,7,30),(1,2,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,27),(2,3,13),(1,2,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,15),(4,6,27),(1,2,9)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((2,3,15),(2,4,19),(1,2,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,15),(2,3,12)); lvl=2; h,r-ind=9,3; optimized-h
    [4,3]((1,1,7),(1,0,0),(2,3,15),(2,3,18)); lvl=2; h,r-ind=3,3
      [4,3]((1,1,6),(1,1,5),(2,3,15),(4,6,33)); lvl=3; h,r-ind=1,1
        [4,3]((4,5,27),(1,1,5),(2,3,16),(2,3,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,16),(3,4,21),(2,3,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(3,4,21),(2,3,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,27),(2,3,16),(3,4,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(4,5,27),(3,4,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,6),(4,5,27),(2,3,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,33),(1,1,6),(2,3,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,6),(4,5,27),(1,1,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,18),(1,1,6),(4,6,33)); lvl=3; h,r-ind=3,3; optimized-h
      [3,3]((1,1,7),(2,3,18),(1,1,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,6),(1,1,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,7),(1,0,0),(1,1,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,7),(2,6,21),(1,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,12),(1,2,7)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,3,21),(2,3,21),(1,3,18)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((2,6,21),(1,3,18),(0,1,0)); lvl=1; h,r-ind=15,15; optimized-h
  [3,3]((1,3,21),(1,3,18),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
```

21.12 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,4,21)); lvl=0; h,r-ind=21,441
  [5,3]((1,1,5),(1,1,3),(2,5,25),(2,8,21),(1,4,17)); lvl=1; h,r-ind=3,1
    [4,3]((1,4,11),(1,3,9),(2,6,21),(2,8,27)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,10),(2,7,24),(2,6,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,13),(1,3,10),(2,7,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,27),(1,4,13),(2,7,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,13),(2,8,25),(1,3,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,11),(2,8,25),(1,3,9),(1,3,10)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,10),(1,3,9),(3,10,31)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,11),(1,4,12),(1,3,9),(3,10,31)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,4,12),(3,10,31),(2,7,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,9),(3,10,31),(2,7,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,11),(1,4,12),(2,7,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,9),(1,4,11),(2,7,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,12),(1,3,10),(3,10,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,12),(2,8,25),(1,3,10)); lvl=4; h,r-ind=1,1
    [6,3]((2,5,22),(1,3,14),(4,10,37),(1,4,17),(2,6,21),(2,8,27)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,13),(1,4,17),(1,3,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,22),(1,3,13),(1,3,14)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,13),(1,4,17),(1,3,12),(1,4,15)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,12),(3,10,41),(1,4,16),(1,4,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,7,28),(3,10,41),(1,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,15),(2,7,28),(1,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,12),(1,4,15),(2,7,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,12),(2,7,28),(3,10,41)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,13),(1,3,12),(3,10,41)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,13),(3,10,41),(1,4,17),(1,4,16)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,4,17),(2,7,29),(1,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,41),(2,7,29),(1,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,13),(3,10,41),(2,7,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,13),(1,4,17),(2,7,29)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,22),(2,5,20),(1,3,13),(1,3,12)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,13),(1,3,12),(4,11,46)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,21),(2,5,20),(1,3,12),(4,11,46)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,8,33),(2,5,20),(1,3,12)); lvl=5; h,r-ind=1,1
```

```
        [3,3]((4,11,46),(3,8,33),(1,3,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,21),(4,11,46),(3,8,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,21),(3,8,33),(2,5,20)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,22),(2,5,21),(1,3,13),(4,11,46)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,34),(2,5,21),(4,11,46)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,13),(3,8,34),(4,11,46)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,22),(1,3,13),(3,8,34)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,22),(3,8,34),(2,5,21)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,12),(1,4,14),(1,4,15),(1,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,15),(1,4,14),(2,7,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,11),(1,4,14),(2,7,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,12),(1,3,11),(2,7,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,12),(1,4,15),(2,7,26)); lvl=4; h,r-ind=1,1
    [4,3]((2,8,27),(1,4,14),(2,7,24),(1,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,11),(1,4,14),(3,11,38)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,27),(1,4,14),(3,11,38)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,24),(2,8,27),(3,11,38)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,24),(1,3,11),(3,11,38)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,24),(1,3,11),(2,6,21)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,29),(1,3,11),(2,6,21)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,20),(2,5,19),(1,3,12),(1,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,11),(1,3,12),(3,8,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,20),(1,3,12),(3,8,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,19),(2,5,20),(3,8,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,19),(1,3,11),(3,8,31)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,19),(4,10,37),(3,8,29),(1,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,48),(3,8,29),(4,10,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,19),(5,13,48),(4,10,37)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,11),(5,13,48),(3,8,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,19),(1,3,11),(5,13,48)); lvl=4; h,r-ind=1,1
  [5,3]((1,1,5),(1,1,4),(1,2,10),(2,5,22),(4,10,37)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,41),(1,2,8),(1,1,4)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,3,13),(2,4,17),(1,2,8),(1,1,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(2,4,17),(3,5,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,13),(2,4,17),(3,5,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(2,3,13),(3,5,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(1,2,8),(3,5,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,5),(2,3,13),(1,1,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,5),(2,3,13),(1,2,9),(2,4,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,9),(2,4,17),(3,5,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,13),(2,4,17),(3,5,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,5),(2,3,13),(3,5,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,5),(1,2,9),(3,5,22)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,5),(1,2,9),(1,2,10)); lvl=3; h,r-ind=1,1
    [4,3]((5,11,41),(4,10,37),(1,2,8),(2,5,19)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,26),(6,14,53),(2,5,19),(4,10,37)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,45),(6,14,53),(2,5,19)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,37),(5,12,45),(2,5,19)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,26),(4,10,37),(5,12,45)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,26),(5,12,45),(6,14,53)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,8),(6,14,53),(2,5,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,26),(1,2,8),(6,14,53)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,26),(5,11,41),(1,2,8)); lvl=4; h,r-ind=1,1
    [4,3]((2,4,17),(2,5,20),(1,2,8),(2,5,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,20),(3,7,28),(2,5,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(3,7,28),(2,5,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(2,4,17),(3,7,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,17),(2,5,20),(3,7,28)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,9),(2,4,17),(2,5,22),(2,5,20)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,9),(4,9,38),(2,5,22),(2,5,21)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,22),(3,7,30),(2,5,21)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,38),(3,7,30),(2,5,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,9),(4,9,38),(3,7,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,9),(2,5,22),(3,7,30)); lvl=5; h,r-ind=1,1
      [3,3]((4,9,38),(2,5,20),(2,5,21)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,4,17),(4,9,38),(2,5,20)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,9),(2,4,17),(4,9,38)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,9),(1,2,10),(2,5,22)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,10),(2,5,22),(1,3,14)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
  [3,3]((1,2,10),(2,5,25),(1,3,14)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,8),(2,5,15),(1,4,11),(1,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,15),(2,6,17),(1,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,11),(2,6,17),(1,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(1,4,11),(2,6,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(2,5,15),(2,6,17)); lvl=3; h,r-ind=1,1
  [3,3]((2,8,21),(1,3,8),(1,4,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,3),(1,3,8),(2,5,15)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
  [4,3]((2,5,15),(4,10,37),(1,3,9),(2,6,21)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,21),(3,8,29),(1,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,18),(3,8,29),(1,3,10)); lvl=3; h,r-ind=1,1
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    [3,3]((2,5,17),(2,5,18),(1,3,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,15),(2,5,17),(1,3,9),(1,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,9),(1,3,10),(4,11,35)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,16),(2,5,17),(1,3,10),(4,11,35)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,26),(2,5,17),(1,3,10)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,35),(3,8,26),(1,3,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,16),(4,11,35),(3,8,26)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,16),(3,8,26),(2,5,17)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,15),(2,5,16),(1,3,9),(4,11,35)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,16),(3,8,25),(4,11,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,9),(3,8,25),(4,11,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,15),(2,5,16),(3,8,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,9),(2,5,15),(3,8,25)); lvl=5; h,r-ind=1,1
    [3,3]((2,5,18),(4,10,37),(3,8,29)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,3),(1,1,4),(2,5,15),(4,10,37)); lvl=2; h,r-ind=3,1
    [3,3]((1,2,7),(2,5,17),(2,5,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,7),(5,11,41),(4,10,37),(2,5,18)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,18),(6,14,51),(3,7,26),(4,10,37)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,44),(6,14,51),(3,7,26)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,37),(5,12,44),(3,7,26)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,18),(4,10,37),(5,12,44)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,18),(5,12,44),(6,14,51)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,7),(6,14,51),(3,7,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,18),(1,2,7),(6,14,51)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(3,7,26),(5,11,41)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,4),(1,2,7),(5,11,41)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((1,1,3),(1,1,4),(1,2,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,6),(2,5,15),(1,2,7),(2,5,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,7),(4,9,29),(2,5,16),(2,5,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,23),(4,9,29),(2,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,17),(3,7,23),(2,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(2,5,17),(3,7,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(3,7,23),(4,9,29)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,6),(1,2,7),(4,9,29)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,6),(4,9,29),(2,5,15),(2,5,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,15),(3,7,22),(2,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,29),(3,7,22),(2,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(2,5,15),(3,7,22)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,29),(1,2,6),(3,7,22)); lvl=5; h,r-ind=1,1
    [3,3]((1,1,3),(1,2,6),(1,2,7)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(2,8,21),(1,4,17)); lvl=1; h,r-ind=13,13; optimized-h
[3,3]((1,4,21),(2,5,25),(1,4,17)); lvl=1; h,r-ind=12,12; optimized-h
[3,3]((0,1,0),(1,4,21),(1,4,17)); lvl=1; h,r-ind=4,4; optimized-h
[4,3]((1,0,0),(0,1,0),(1,1,3),(2,8,21)); lvl=1; h,r-ind=3,3
  [3,3]((1,3,8),(1,4,10),(2,8,21)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,10),(2,8,21)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,8),(2,7,16),(1,3,7),(1,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,17),(1,3,7),(2,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,10),(2,7,17),(2,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(1,4,10),(2,7,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(2,7,17),(1,3,7)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,7),(2,7,14),(2,7,16),(1,4,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,10),(2,8,17),(2,7,16),(2,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,40),(2,7,15),(2,7,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,10),(5,18,40),(1,4,9),(2,7,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,25),(5,18,40),(1,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,10),(3,11,25),(1,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,16),(3,11,25),(5,18,40)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,10),(2,7,16),(3,11,25)); lvl=5; h,r-ind=1,1
      [3,3]((5,18,40),(1,4,9),(2,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(2,8,17),(2,7,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,7),(2,8,17),(2,7,14),(2,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,15),(2,7,14),(5,18,37)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,7),(1,4,8),(2,7,14),(5,18,37)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,8),(5,18,37),(3,11,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,14),(5,18,37),(3,11,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(1,4,8),(3,11,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,14),(1,4,7),(3,11,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,8),(2,7,15),(5,18,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,17),(1,4,8),(2,7,15)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,7),(1,4,10)); lvl=2; h,r-ind=3,3; optimized-h
  [5,3]((2,5,11),(2,7,14),(1,3,6),(2,7,16),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(2,5,11),(2,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,11),(2,6,13)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,14),(1,3,6),(5,16,34),(3,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(5,16,34),(4,13,27)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,21),(5,16,34),(4,13,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,14),(3,10,21),(4,13,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,14),(1,3,6),(4,13,27)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,7),(6,19,41),(5,16,35),(2,6,13)); lvl=3; h,r-ind=1,1
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      [3,3]((5,16,35),(6,19,41),(7,22,48)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(6,19,41),(7,22,48)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(5,16,35),(7,22,48)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(1,3,7),(7,22,48)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,6),(5,16,34),(6,19,41),(2,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,34),(6,19,41),(7,22,47)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(6,19,41),(7,22,47)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(5,16,34),(7,22,47)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(1,3,6),(7,22,47)); lvl=4; h,r-ind=1,1
    [6,3]((2,7,15),(3,10,22),(5,16,34),(3,10,21),(6,19,41),(5,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,28),(3,10,21),(2,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,22),(4,13,28),(2,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((5,16,35),(3,10,22),(4,13,28)); lvl=4; h,r-ind=1,1
      [3,3]((6,19,41),(5,16,35),(4,13,28)); lvl=4; h,r-ind=1,1
      [3,3]((5,16,34),(4,13,28),(3,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((5,16,34),(6,19,41),(4,13,28)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,14),(2,7,15),(3,10,21)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,16),(3,10,22),(1,3,7),(5,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,29),(3,10,22),(5,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(4,13,29),(5,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,16),(4,13,29),(3,10,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(2,7,16),(4,13,29)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,15),(2,7,16),(3,10,22)); lvl=3; h,r-ind=1,1
  [5,3]((2,6,9),(2,8,11),(1,4,7),(2,7,14),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,10),(1,4,6),(2,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,10),(1,3,5),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(2,7,10),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(4,14,23),(1,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,13),(4,14,23),(1,4,7),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(4,15,25),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,12),(4,15,25),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,12),(4,14,23),(1,4,6)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,13),(2,7,12),(1,4,7),(4,15,25)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,12),(4,15,25),(3,11,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(4,15,25),(3,11,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,13),(1,4,7),(3,11,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,13),(2,7,12),(3,11,19)); lvl=5; h,r-ind=1,1
    [3,3]((2,7,13),(1,4,7),(2,7,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,13),(1,3,6),(2,7,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,5),(2,7,13),(4,14,23),(1,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,6),(4,13,23),(2,7,12),(2,7,13)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,13,23),(3,10,18),(2,7,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,13),(3,10,18),(2,7,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(2,7,13),(3,10,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(4,13,23),(3,10,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,6),(4,13,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(4,13,23),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(4,14,23),(2,7,12)); lvl=4; h,r-ind=1,1
  [5,3]((1,0,0),(2,5,11),(2,2,5),(2,6,9),(1,3,6)); lvl=2; h,r-ind=3,1
    [4,3]((3,6,11),(1,2,4),(1,3,5),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,6),(2,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,6),(2,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,11),(1,2,4),(2,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,11),(1,3,5),(2,5,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,11),(1,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,6),(1,2,4),(4,7,16),(2,5,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,4),(7,13,28),(2,5,11),(2,4,9)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,6,13),(7,13,28),(2,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,11),(3,6,13),(2,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(2,5,11),(3,6,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(3,6,13),(7,13,28)); lvl=5; h,r-ind=1,1
      [4,3]((3,5,11),(7,13,28),(4,7,15),(2,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,24),(4,7,15),(7,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,9),(6,11,24),(7,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,11),(2,4,9),(6,11,24)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,11),(6,11,24),(4,7,15)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,11),(4,7,16),(2,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(3,5,11),(4,7,15)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,6),(1,2,4),(7,13,28),(4,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(5,9,19),(7,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,15),(5,9,19),(7,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,6),(4,7,15),(5,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,6),(1,2,4),(5,9,19)); lvl=5; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,6),(2,2,5),(4,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(2,3,7),(4,7,16)); lvl=4; h,r-ind=1,1
      [4,3]((4,6,13),(7,10,22),(3,5,11),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((7,10,22),(2,3,7),(6,9,20)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,11),(2,3,7),(6,9,20)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,13),(7,10,22),(6,9,20)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,13),(3,5,11),(6,9,20)); lvl=5; h,r-ind=1,1
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      [4,3]((2,2,5),(1,1,2),(7,10,22),(2,3,7)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((1,1,2),(7,10,22),(3,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,7),(7,10,22),(3,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,5),(1,1,2),(3,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,7),(2,2,5),(3,4,9)); lvl=5; h,r-ind=1,1
      [3,3]((4,6,13),(3,5,11),(2,3,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,2),(4,6,13),(7,10,22),(2,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,15),(4,6,13),(7,10,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(5,7,15),(7,10,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,6),(5,7,15),(4,6,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(2,3,6),(5,7,15)); lvl=5; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,5)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,13),(3,6,11),(2,3,6),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,17),(1,2,4),(3,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,13),(5,9,17),(3,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(5,9,17),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,13),(2,3,6),(5,9,17)); lvl=4; h,r-ind=1,1
    [5,3]((4,7,13),(3,6,11),(3,5,9),(1,2,3),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(3,5,9),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(1,3,5),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(3,6,11),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,13),(2,4,7),(3,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,13),(2,4,7),(3,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,9),(1,2,3),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(4,7,13),(2,3,6),(3,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(4,7,13),(5,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,9),(4,7,13),(5,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(5,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,9),(1,1,2),(5,8,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,2),(3,5,9),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,5,9),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,9),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,2),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,0,0),(2,3,5)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,6,9),(2,8,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,9),(1,4,5),(2,8,11),(2,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,15),(1,4,5),(2,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,10),(3,11,15),(2,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,9),(2,7,10),(3,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,9),(3,11,15),(1,4,5)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(2,6,9),(2,7,9),(2,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,10),(5,16,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(2,7,10),(5,16,23)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,9),(1,2,3),(1,3,4),(5,16,23)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,3),(3,9,13),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,23),(3,9,13),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,9),(1,2,3),(3,9,13)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,23),(2,6,9),(3,9,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(2,7,10)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(1,3,3),(1,2,2),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(3,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(3,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(1,3,3)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(1,3,4),(1,2,2),(3,8,9)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,6),(3,8,9),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(2,5,6),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,6),(1,2,2),(3,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(2,5,6),(1,2,2)); lvl=5; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,2,2)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,4,5),(2,8,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(2,7,9),(0,1,0),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(3,11,13),(1,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,4),(3,11,12),(3,11,13),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,12),(3,11,13),(4,15,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(3,11,13),(4,15,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(3,11,12),(4,15,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(1,4,4),(4,15,17)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,4,4),(3,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,3),(3,11,12),(2,7,9),(3,11,13)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,8),(3,11,13),(3,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(3,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,9),(1,3,3),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,9),(2,7,8),(3,11,13)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,3),(1,2,2),(0,1,0)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,2),(0,1,0)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(2,8,11),(1,4,7)); lvl=2; h,r-ind=3,3; optimized-h
  [5,3]((1,3,8),(1,1,3),(2,5,11),(2,2,5),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(2,2,5),(1,1,3)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,3,8),(1,2,5),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,2,5),(4,7,16)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,5),(4,7,16),(2,5,11)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,5),(1,3,7),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(1,2,5),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(2,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,21),(1,1,5),(2,5,25)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(1,4,21),(1,1,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,5),(1,1,3)); lvl=1; h,r-ind=2,2; optimized-h
```

21.13 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,5,21)); lvl=0; h,r-ind=21,441
  [3,3]((1,1,4),(2,2,5),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((0,1,0),(2,10,21),(2,2,5),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,2),(1,3,6),(2,6,13),(2,2,5)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((1,3,6),(1,2,4),(2,6,13),(2,4,9)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,4),(4,10,21),(2,4,9),(2,5,11)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,7,15),(4,10,21),(2,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,9),(3,7,15),(2,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,4),(2,4,9),(3,7,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,4),(3,7,15),(4,10,21)); lvl=5; h,r-ind=1,1
        [4,3]((2,6,13),(1,3,6),(4,10,21),(2,5,11)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,3,6),(4,10,21),(3,8,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,11),(4,10,21),(3,8,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,13),(2,5,11),(3,8,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,13),(1,3,6),(3,8,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(1,2,4),(4,10,21)); lvl=4; h,r-ind=1,1
      [4,3]((2,2,5),(1,1,2),(1,2,4),(2,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,2),(1,2,4),(4,6,13)); lvl=4; h,r-ind=1,1
        [4,3]((2,4,9),(2,3,7),(1,2,4),(4,6,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,7),(4,6,13),(3,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,4),(4,6,13),(3,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,9),(2,3,7),(3,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,4),(2,4,9),(3,5,11)); lvl=5; h,r-ind=1,1
        [4,3]((2,2,5),(2,3,7),(1,1,2),(4,6,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,7),(3,4,9),(4,6,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(3,4,9),(4,6,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,5),(2,3,7),(3,4,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(2,2,5),(3,4,9)); lvl=5; h,r-ind=1,1
    [3,3]((1,1,2),(1,0,0),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(2,2,3),(2,10,11),(1,0,0)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,3),(1,1,1),(2,6,7),(2,2,3)); lvl=3; h,r-ind=2,1; alert-h-inc
        [4,3]((1,2,2),(2,4,5),(1,1,1),(2,2,3)); lvl=4; h,r-ind=1,1
          [4,3]((1,1,1),(4,6,7),(2,2,3),(2,3,4)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,4,5),(2,3,4),(4,6,7)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,1),(3,4,5),(4,6,7)); lvl=6; h,r-ind=1,1
            [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=6; h,r-ind=1,1
          [4,3]((2,4,5),(1,2,2),(4,6,7),(2,3,4)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,5,6),(1,2,2),(4,6,7)); lvl=6; h,r-ind=1,1
            [3,3]((3,5,6),(2,3,4),(4,6,7)); lvl=6; h,r-ind=1,1
            [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=6; h,r-ind=1,1
            [3,3]((2,4,5),(3,5,6),(1,2,2)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,2),(1,1,1),(4,6,7)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,3),(1,2,2),(2,6,7),(2,4,5)); lvl=4; h,r-ind=1,1
          [4,3]((1,2,2),(4,10,11),(2,4,5),(2,5,6)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,7,8),(2,5,6),(4,10,11)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,2),(3,7,8),(4,10,11)); lvl=6; h,r-ind=1,1
            [3,3]((2,4,5),(3,7,8),(2,5,6)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,2),(2,4,5),(3,7,8)); lvl=6; h,r-ind=1,1
          [4,3]((2,6,7),(1,3,3),(4,10,11),(2,5,6)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,8,9),(1,3,3),(4,10,11)); lvl=6; h,r-ind=1,1
            [3,3]((3,8,9),(2,5,6),(4,10,11)); lvl=6; h,r-ind=1,1
            [3,3]((2,6,7),(3,8,9),(2,5,6)); lvl=6; h,r-ind=1,1
            [3,3]((2,6,7),(3,8,9),(1,3,3)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,3),(1,2,2),(4,10,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,5),(1,3,3),(2,10,11),(2,6,7)); lvl=3; h,r-ind=2,1; alert-h-inc
        [4,3]((1,4,4),(2,8,9),(1,3,3),(2,6,7)); lvl=4; h,r-ind=1,1
          [4,3]((1,3,3),(4,14,15),(2,6,7),(2,7,8)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((4,14,15),(3,10,11),(2,7,8)); lvl=6; h,r-ind=1,1
            [3,3]((2,6,7),(3,10,11),(2,7,8)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,3),(4,14,15),(3,10,11)); lvl=6; h,r-ind=1,1
            [3,3]((2,6,7),(1,3,3),(3,10,11)); lvl=6; h,r-ind=1,1
          [4,3]((2,8,9),(1,4,4),(4,14,15),(2,7,8)); lvl=5; h,r-ind=1,2; alert-r-inc
```

```
          [3,3]((3,11,12),(1,4,4),(4,14,15)); lvl=6; h,r-ind=1,1
          [3,3]((3,11,12),(2,7,8),(4,14,15)); lvl=6; h,r-ind=1,1
          [3,3]((2,8,9),(3,11,12),(2,7,8)); lvl=6; h,r-ind=1,1
          [3,3]((2,8,9),(3,11,12),(1,4,4)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,4),(1,3,3),(4,14,15)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,5),(1,4,4),(2,10,11),(2,8,9)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,4),(4,18,19),(2,8,9),(2,9,10)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,18,19),(2,9,10),(3,13,14)); lvl=6; h,r-ind=1,1
          [3,3]((2,8,9),(2,9,10),(3,13,14)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,4),(2,8,9),(3,13,14)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,4),(4,18,19),(3,13,14)); lvl=6; h,r-ind=1,1
        [4,3]((2,10,11),(1,5,5),(4,18,19),(2,9,10)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,15),(1,5,5),(4,18,19)); lvl=6; h,r-ind=1,1
          [3,3]((3,14,15),(2,9,10),(4,18,19)); lvl=6; h,r-ind=1,1
          [3,3]((2,10,11),(3,14,15),(2,9,10)); lvl=6; h,r-ind=1,1
          [3,3]((2,10,11),(3,14,15),(1,5,5)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,5),(1,4,4),(4,18,19)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(2,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,3,3)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,3,3),(1,1,1)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=3; h,r-ind=1,1
  [5,3]((1,1,2),(1,3,6),(2,2,3),(1,5,6),(2,10,11)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((1,3,4),(1,4,5),(2,10,11),(2,6,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,5),(6,22,27),(2,10,11),(2,8,9)); lvl=4; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [3,3]((4,16,19),(4,15,18),(2,8,9)); lvl=5; h,r-ind=2,2; optimized-h
        [3,3]((2,9,10),(4,16,19),(2,8,9)); lvl=5; h,r-ind=2,2; optimized-h
        [4,3]((1,4,5),(2,10,11),(2,9,10),(4,16,19)); lvl=5; h,r-ind=1,2
          [3,3]((3,13,15),(2,9,10),(2,10,11)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(3,13,15),(2,10,11)); lvl=6; h,r-ind=1,1
          [3,3]((4,16,19),(1,4,5),(3,13,15)); lvl=6; h,r-ind=1,1
          [3,3]((4,16,19),(3,13,15),(2,9,10)); lvl=6; h,r-ind=1,1
        [4,3]((1,4,5),(4,16,19),(6,22,27),(4,15,18)); lvl=5; h,r-ind=1,2
          [3,3]((5,19,23),(4,16,19),(4,15,18)); lvl=6; h,r-ind=1,1
          [3,3]((6,22,27),(5,19,23),(4,15,18)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(6,22,27),(5,19,23)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(5,19,23),(4,16,19)); lvl=6; h,r-ind=1,1
      [4,3]((2,6,7),(1,3,4),(6,22,27),(2,8,9)); lvl=4; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,3,4),(4,15,18),(6,22,27),(4,14,17)); lvl=5; h,r-ind=1,2
          [3,3]((4,15,18),(6,22,27),(5,18,22)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(6,22,27),(5,18,22)); lvl=6; h,r-ind=1,1
          [3,3]((4,14,17),(4,15,18),(5,18,22)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(4,14,17),(5,18,22)); lvl=6; h,r-ind=1,1
        [4,3]((2,7,8),(2,6,7),(1,3,4),(4,14,17)); lvl=5; h,r-ind=1,2
          [3,3]((1,3,4),(3,10,12),(2,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,8),(3,10,12),(2,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((4,14,17),(1,3,4),(3,10,12)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,8),(4,14,17),(3,10,12)); lvl=6; h,r-ind=1,1
        [3,3]((2,8,9),(4,15,18),(4,14,17)); lvl=5; h,r-ind=2,2; optimized-h
        [3,3]((2,8,9),(2,7,8),(4,14,17)); lvl=5; h,r-ind=2,2; optimized-h
      [3,3]((1,3,4),(1,4,5),(6,22,27)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(1,3,4),(2,2,3),(2,6,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(6,14,19),(2,6,7),(2,4,5)); lvl=4; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,3,4),(4,10,13),(4,9,12),(6,14,19)); lvl=5; h,r-ind=1,2
          [3,3]((4,9,12),(5,12,16),(4,10,13)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(5,12,16),(4,10,13)); lvl=6; h,r-ind=1,1
          [3,3]((6,14,19),(4,9,12),(5,12,16)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(6,14,19),(5,12,16)); lvl=6; h,r-ind=1,1
        [3,3]((2,4,5),(4,10,13),(4,9,12)); lvl=5; h,r-ind=2,2; optimized-h
        [3,3]((2,5,6),(2,4,5),(4,10,13)); lvl=5; h,r-ind=2,2; optimized-h
        [4,3]((1,3,4),(2,6,7),(2,5,6),(4,10,13)); lvl=5; h,r-ind=1,2
          [3,3]((3,8,10),(2,6,7),(2,5,6)); lvl=6; h,r-ind=1,1
          [3,3]((4,10,13),(3,8,10),(2,5,6)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(4,10,13),(3,8,10)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=6; h,r-ind=1,1
      [4,3]((2,2,3),(1,2,3),(6,14,19),(2,4,5)); lvl=4; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((4,8,11),(1,2,3),(4,9,12),(6,14,19)); lvl=5; h,r-ind=1,2
          [3,3]((1,2,3),(6,14,19),(5,11,15)); lvl=6; h,r-ind=1,1
          [3,3]((4,9,12),(6,14,19),(5,11,15)); lvl=6; h,r-ind=1,1
          [3,3]((4,8,11),(4,9,12),(5,11,15)); lvl=6; h,r-ind=1,1
          [3,3]((4,8,11),(1,2,3),(5,11,15)); lvl=6; h,r-ind=1,1
        [3,3]((2,4,5),(4,8,11),(4,9,12)); lvl=5; h,r-ind=2,2; optimized-h
        [3,3]((2,4,5),(2,3,4),(4,8,11)); lvl=5; h,r-ind=2,2; optimized-h
        [4,3]((2,2,3),(2,3,4),(4,8,11),(1,2,3)); lvl=5; h,r-ind=1,2
          [3,3]((2,3,4),(3,5,7),(4,8,11)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(3,5,7),(4,8,11)); lvl=6; h,r-ind=1,1
          [3,3]((2,2,3),(1,2,3),(3,5,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,2,3),(2,3,4),(3,5,7)); lvl=6; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(6,14,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,3),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(1,5,6),(2,10,11)); lvl=3; h,r-ind=1,1
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    [4,3]((1,4,5),(1,4,6),(2,7,10),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(2,8,11),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,8,11),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,10),(2,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,5),(2,8,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,6),(2,6,9),(1,4,6),(2,7,10)); lvl=3; h,r-ind=1,1
      [4,3]((2,6,9),(1,3,5),(2,7,10),(4,14,21)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,10),(4,14,21),(3,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(4,14,21),(3,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,9),(1,3,5),(3,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,9),(2,7,10),(3,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,10),(4,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,3,5),(4,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,6),(1,3,5)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,4),(2,6,9),(1,4,5),(2,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,9),(2,7,10),(3,10,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,10),(3,10,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,5),(3,10,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(3,10,14)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(1,3,4),(2,5,8),(2,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(3,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(2,6,9),(3,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(3,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(1,2,3),(3,8,12)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,2),(1,2,4),(1,2,3),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,8),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,8),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(2,4,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(1,3,6),(2,5,8),(2,6,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,8),(1,3,5),(2,6,9),(4,10,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,9),(3,8,13),(1,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,17),(3,8,13),(1,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,8),(4,10,17),(3,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,8),(2,6,9),(3,8,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,8),(4,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(4,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(1,3,6)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,6),(2,10,11)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,6),(2,10,21),(2,6,13),(1,5,10)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((1,5,10),(1,4,8),(2,10,21),(2,8,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,8),(4,18,37),(2,8,17),(2,9,19)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,27),(4,18,37),(2,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,17),(3,13,27),(2,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(2,8,17),(3,13,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(3,13,27),(4,18,37)); lvl=5; h,r-ind=1,1
      [4,3]((2,10,21),(1,5,10),(4,18,37),(2,9,19)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,29),(1,5,10),(4,18,37)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,29),(2,9,19),(4,18,37)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,21),(3,14,29),(2,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,21),(3,14,29),(1,5,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(1,4,8),(4,18,37)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,6),(1,4,8),(2,6,13),(2,8,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,8),(4,14,29),(2,8,17),(2,7,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,23),(4,14,29),(2,7,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,17),(3,11,23),(2,7,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(2,8,17),(3,11,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(3,11,23),(4,14,29)); lvl=5; h,r-ind=1,1
      [4,3]((2,6,13),(1,3,6),(4,14,29),(2,7,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,6),(4,14,29),(3,10,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,15),(4,14,29),(3,10,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,13),(2,7,15),(3,10,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,13),(1,3,6),(3,10,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,8),(4,14,29)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(2,10,21),(1,5,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,6),(1,5,6),(1,5,10)); lvl=2; h,r-ind=8,4; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,5,6),(1,5,10)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,5,21),(1,1,4),(1,0,0)); lvl=1; h,r-ind=1,1
[5,3]((1,5,16),(1,3,12),(2,10,21),(1,1,4),(2,2,5)); lvl=1; h,r-ind=2,1
  [4,3]((1,3,7),(2,6,13),(1,1,3),(2,2,5)); lvl=2; h,r-ind=2,1
    [4,3]((1,2,5),(1,1,3),(2,2,5),(2,4,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,3),(4,6,15),(2,3,7),(2,2,5)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,10),(4,6,15),(2,3,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,5),(3,4,10),(2,3,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(2,2,5),(3,4,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(3,4,10),(4,6,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,5),(1,1,3),(4,6,15)); lvl=4; h,r-ind=1,1
      [4,3]((2,4,9),(1,2,5),(4,6,15),(2,3,7)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,5),(4,6,15),(3,5,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,7),(4,6,15),(3,5,12)); lvl=5; h,r-ind=1,1
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      [3,3]((2,4,9),(1,2,5),(3,5,12)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,7),(2,4,9),(3,5,12)); lvl=5; h,r-ind=1,1
  [4,3]((2,6,13),(1,3,7),(1,2,5),(2,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(1,3,7),(4,10,23)); lvl=4; h,r-ind=1,1
    [4,3]((2,6,13),(2,5,11),(1,3,7),(4,10,23)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,18),(4,10,23),(2,5,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,13),(3,8,18),(2,5,11)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,18),(1,3,7),(4,10,23)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,13),(3,8,18),(1,3,7)); lvl=5; h,r-ind=1,1
    [4,3]((2,4,9),(2,5,11),(1,2,5),(4,10,23)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,11),(4,10,23),(3,7,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,5),(4,10,23),(3,7,16)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,9),(2,5,11),(3,7,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,9),(3,7,16)); lvl=5; h,r-ind=1,1
[4,3]((1,5,11),(2,10,21),(1,3,7),(2,6,13)); lvl=2; h,r-ind=2,1
  [4,3]((1,4,9),(1,3,7),(2,6,13),(2,8,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,7),(4,14,31),(2,7,15),(2,6,13)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,14,31),(2,7,15),(3,10,22)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,13),(2,7,15),(3,10,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,7),(2,6,13),(3,10,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,7),(4,14,31),(3,10,22)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,9),(1,3,7),(4,14,31)); lvl=4; h,r-ind=1,1
    [4,3]((2,8,17),(1,4,9),(4,14,31),(2,7,15)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,4,9),(4,14,31),(3,11,24)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,15),(4,14,31),(3,11,24)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,17),(1,4,9),(3,11,24)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,15),(2,8,17),(3,11,24)); lvl=5; h,r-ind=1,1
  [4,3]((2,10,21),(1,5,11),(1,4,9),(2,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(1,5,11),(4,18,39)); lvl=4; h,r-ind=1,1
    [4,3]((2,10,21),(2,9,19),(1,5,11),(4,18,39)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,14,30),(2,9,19),(4,18,39)); lvl=5; h,r-ind=1,1
      [3,3]((3,14,30),(1,5,11),(4,18,39)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,21),(3,14,30),(1,5,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,21),(3,14,30),(2,9,19)); lvl=5; h,r-ind=1,1
    [4,3]((2,8,17),(2,9,19),(1,4,9),(4,18,39)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,19),(3,13,28),(4,18,39)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,9),(3,13,28),(4,18,39)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,17),(2,9,19),(3,13,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,9),(2,8,17),(3,13,28)); lvl=5; h,r-ind=1,1
[3,3]((1,3,7),(1,3,9),(1,1,3)); lvl=2; h,r-ind=4,2; alert-h-inc; alert-r-inc; optimized-h
[5,3]((1,2,8),(1,1,4),(1,3,10),(1,3,9),(1,1,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,7),(1,2,6),(1,1,3)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,4),(1,2,7),(1,1,3)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,8),(1,1,4),(1,2,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,7),(1,2,6),(1,3,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,10),(1,2,7),(1,3,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,8),(1,3,10),(1,2,7)); lvl=3; h,r-ind=1,1
[3,3]((1,3,12),(1,2,8),(1,3,10)); lvl=2; h,r-ind=2,2; alert-r-inc; optimized-h
[5,3]((1,5,16),(1,4,14),(1,5,13),(1,3,10),(1,3,9)); lvl=2; h,r-ind=1,1
  [4,3]((2,8,25),(2,7,22),(1,4,11),(1,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,9),(2,7,22),(4,14,43)); lvl=4; h,r-ind=1,1
    [4,3]((2,8,25),(1,4,12),(2,7,22),(4,14,43)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,22),(4,14,43),(3,11,34)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,12),(4,14,43),(3,11,34)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,25),(2,7,22),(3,11,34)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,12),(2,8,25),(3,11,34)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,12),(1,3,9),(4,14,43)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,11),(1,4,12),(1,3,9)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,10),(2,7,22),(1,3,9)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,13),(2,8,25),(1,3,10),(2,7,22)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,25),(2,7,22),(3,11,35)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,10),(2,7,22),(3,11,35)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,13),(2,8,25),(3,11,35)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,10),(1,4,13),(3,11,35)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,14),(1,4,13),(1,3,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,16),(1,4,14),(1,4,13)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,16),(2,10,29),(1,4,13),(2,8,25)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,40),(2,8,25),(2,9,27)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,15),(3,13,40),(5,22,68),(2,9,27)); lvl=4; h,r-ind=1,1
      [3,3]((5,22,68),(4,18,55),(3,13,40)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,27),(4,18,55),(3,13,40)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,15),(5,22,68),(4,18,55)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,27),(1,5,15),(4,18,55)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,15),(2,10,29),(2,9,27)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,13),(3,13,40),(5,22,68),(2,8,25)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,53),(5,22,68),(3,13,40)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,25),(4,17,53),(3,13,40)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,13),(2,8,25),(4,17,53)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,13),(4,17,53),(5,22,68)); lvl=5; h,r-ind=1,1
    [4,3]((1,5,16),(1,5,15),(1,4,13),(5,22,68)); lvl=4; h,r-ind=1,3; alert-r-inc
```

```
          [3,3]((2,9,28),(1,5,15),(5,22,68)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,28),(1,4,13),(5,22,68)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,16),(2,9,28),(1,4,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,16),(2,9,28),(1,5,15)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,13),(2,10,29),(2,8,25),(1,4,11)); lvl=3; h,r-ind=3,1; alert-h-inc
        [3,3]((2,9,27),(1,4,12),(2,8,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,14),(2,9,27),(1,4,12)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,13),(1,5,14),(1,4,11),(1,4,12)); lvl=4; h,r-ind=1,1
          [3,3]((1,4,11),(1,4,12),(2,9,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(1,4,12),(2,9,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,13),(1,4,11),(2,9,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(1,5,13),(2,9,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,14),(2,9,27),(2,10,29)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,12),(1,4,14),(1,3,10)); lvl=2; h,r-ind=2,2; alert-r-inc; optimized-h
    [4,3]((1,5,11),(1,3,7),(1,5,13),(1,3,9)); lvl=2; h,r-ind=4,2; alert-h-inc; alert-r-inc
      [4,3]((1,4,10),(1,3,8),(1,3,9),(1,4,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,8),(1,3,9),(2,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,11),(1,3,9),(2,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(1,3,8),(2,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,11),(1,4,10),(2,7,19)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,13),(1,5,12),(1,4,10),(1,4,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,12),(1,4,10),(2,9,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,11),(1,4,10),(2,9,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,13),(1,5,12),(2,9,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,11),(1,5,13),(2,9,23)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,7),(1,4,9),(1,4,10),(1,3,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,9),(1,4,10),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(1,4,10),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(1,4,9),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(1,3,7),(2,7,17)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,11),(1,5,12),(1,4,9),(1,4,10)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,9),(1,4,10),(2,9,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,12),(1,4,10),(2,9,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,11),(1,4,9),(2,9,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,12),(1,5,11),(2,9,21)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,21),(1,3,12),(1,1,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,5,16),(2,10,21)); lvl=1; h,r-ind=11,11; optimized-h
  [3,3]((1,5,21),(0,1,0),(1,5,16)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,5,21),(1,5,16),(1,3,12)); lvl=1; h,r-ind=10,10; optimized-h
```

21.14 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,6,21)); lvl=0; h,r-ind=21,147
  [5,3]((1,6,15),(2,12,21),(1,3,9),(1,3,6),(2,9,27)); lvl=1; h,r-ind=9,3
    [6,3]((1,5,14),(1,6,15),(2,12,25),(1,5,11),(2,9,21),(2,9,24)); lvl=2; h,r-ind=1,1
      [4,3]((2,10,25),(2,12,27),(1,6,13),(2,10,23)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc
        [4,3]((1,6,13),(2,12,27),(3,17,39),(5,28,64)); lvl=4; h,r-ind=1,1
          [3,3]((4,23,52),(2,12,27),(3,17,39)); lvl=5; h,r-ind=1,1
          [3,3]((5,28,64),(4,23,52),(3,17,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,13),(5,28,64),(4,23,52)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,13),(4,23,52),(2,12,27)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,12),(2,11,26),(3,17,39),(5,28,64)); lvl=4; h,r-ind=1,1
          [3,3]((2,11,26),(4,22,51),(3,17,39)); lvl=5; h,r-ind=1,1
          [3,3]((5,28,64),(4,22,51),(3,17,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(5,28,64),(4,22,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(2,11,26),(4,22,51)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,12),(2,11,26),(2,10,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,12),(1,6,13),(5,28,64)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,23),(1,5,12),(1,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,26),(2,12,27),(3,17,39)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,11),(2,12,25),(1,6,13),(2,10,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,24),(1,6,13),(2,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,11),(2,11,24),(2,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,23),(1,5,11),(2,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,23),(2,11,24),(1,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,21),(1,5,11),(2,10,23)); lvl=3; h,r-ind=1,1
      [4,3]((4,18,45),(2,10,25),(2,9,21),(2,10,23)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc
        [3,3]((2,9,21),(2,10,23),(1,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,21),(2,9,22),(1,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,35),(2,9,22),(1,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,35),(2,10,25),(1,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,35),(4,18,45),(2,9,22)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,13),(2,9,24),(4,18,45),(2,10,25)); lvl=3; h,r-ind=1,1
        [3,3]((2,9,23),(4,18,45),(3,14,35)); lvl=4; h,r-ind=1,1
        [4,3]((2,9,23),(7,33,84),(4,19,48),(3,14,35)); lvl=4; h,r-ind=1,1
          [3,3]((7,33,84),(6,28,71),(4,19,48)); lvl=5; h,r-ind=1,1
          [3,3]((3,14,35),(6,28,71),(4,19,48)); lvl=5; h,r-ind=1,1
```

```
      [3,3]((2,9,23),(3,14,35),(6,28,71)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,23),(7,33,84),(6,28,71)); lvl=5; h,r-ind=1,1
    [3,3]((2,10,25),(4,19,48),(3,14,35)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,13),(2,9,24),(2,9,23),(7,33,84)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((2,9,23),(3,14,36),(2,9,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,13),(3,14,36),(2,9,24)); lvl=5; h,r-ind=1,1
      [3,3]((7,33,84),(2,9,23),(3,14,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,13),(7,33,84),(3,14,36)); lvl=5; h,r-ind=1,1
    [4,3]((2,10,25),(1,5,13),(7,33,84),(4,19,48)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,13),(7,33,84),(5,24,61)); lvl=5; h,r-ind=1,1
      [3,3]((4,19,48),(7,33,84),(5,24,61)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,25),(4,19,48),(5,24,61)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,25),(1,5,13),(5,24,61)); lvl=5; h,r-ind=1,1
  [3,3]((1,5,14),(1,5,13),(2,9,24)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,13),(2,10,25),(1,6,15),(2,12,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,14),(2,11,26),(2,12,27)); lvl=4; h,r-ind=1,1
    [4,3]((3,16,39),(5,27,66),(1,6,14),(2,11,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,14),(4,22,53),(5,27,66)); lvl=5; h,r-ind=1,1
      [3,3]((3,16,39),(4,22,53),(5,27,66)); lvl=5; h,r-ind=1,1
      [3,3]((3,16,39),(2,11,26),(4,22,53)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,26),(1,6,14),(4,22,53)); lvl=5; h,r-ind=1,1
    [3,3]((2,10,25),(3,16,39),(2,11,26)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,13),(2,10,25),(3,16,39),(5,27,66)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,39),(2,10,25),(4,21,52)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,13),(2,10,25),(4,21,52)); lvl=5; h,r-ind=1,1
      [3,3]((5,27,66),(1,5,13),(4,21,52)); lvl=5; h,r-ind=1,1
      [3,3]((5,27,66),(3,16,39),(4,21,52)); lvl=5; h,r-ind=1,1
    [4,3]((1,5,13),(5,27,66),(1,6,15),(1,6,14)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((2,11,27),(1,6,14),(1,6,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,13),(2,11,27),(1,6,15)); lvl=5; h,r-ind=1,1
      [3,3]((5,27,66),(2,11,27),(1,6,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,13),(5,27,66),(2,11,27)); lvl=5; h,r-ind=1,1
  [3,3]((1,5,14),(1,5,13),(1,6,15)); lvl=3; h,r-ind=1,1
[5,3]((2,6,15),(1,4,12),(1,3,9),(2,9,21),(2,9,24)); lvl=2; h,r-ind=3,3
  [4,3]((1,4,11),(2,8,21),(2,9,24),(4,18,45)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,23),(3,13,33),(4,18,45)); lvl=4; h,r-ind=1,1
    [4,3]((7,30,78),(2,9,23),(3,13,33),(4,17,44)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,23),(6,26,67),(3,13,33)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,44),(6,26,67),(3,13,33)); lvl=5; h,r-ind=1,1
      [3,3]((7,30,78),(4,17,44),(6,26,67)); lvl=5; h,r-ind=1,1
      [3,3]((7,30,78),(2,9,23),(6,26,67)); lvl=5; h,r-ind=1,1
    [4,3]((1,4,11),(7,30,78),(2,9,23),(2,9,24)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((2,9,23),(7,30,78),(3,13,34)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,11),(7,30,78),(3,13,34)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,24),(2,9,23),(3,13,34)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,11),(2,9,24),(3,13,34)); lvl=5; h,r-ind=1,1
    [4,3]((2,8,21),(1,4,11),(7,30,78),(4,17,44)); lvl=4; h,r-ind=1,1
      [3,3]((5,21,55),(7,30,78),(1,4,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,21),(5,21,55),(1,4,11)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,44),(5,21,55),(7,30,78)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,44),(2,8,21),(5,21,55)); lvl=5; h,r-ind=1,1
    [3,3]((2,8,21),(3,13,33),(4,17,44)); lvl=4; h,r-ind=1,1
  [4,3]((2,8,21),(1,4,10),(2,9,21),(4,18,45)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,10),(2,9,21),(2,9,22),(7,30,75)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((3,13,32),(2,9,22),(2,9,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,10),(3,13,32),(2,9,21)); lvl=5; h,r-ind=1,1
      [3,3]((7,30,75),(3,13,32),(2,9,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,10),(7,30,75),(3,13,32)); lvl=5; h,r-ind=1,1
    [4,3]((3,13,33),(4,17,43),(2,9,22),(7,30,75)); lvl=4; h,r-ind=1,1
      [3,3]((6,26,65),(7,30,75),(4,17,43)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,33),(6,26,65),(4,17,43)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,22),(3,13,33),(6,26,65)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,22),(6,26,65),(7,30,75)); lvl=5; h,r-ind=1,1
    [3,3]((4,18,45),(3,13,33),(2,9,22)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,21),(3,13,33),(4,17,43)); lvl=4; h,r-ind=1,1
    [4,3]((2,8,21),(4,17,43),(1,4,10),(7,30,75)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,43),(7,30,75),(5,21,53)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,10),(7,30,75),(5,21,53)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,21),(4,17,43),(5,21,53)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,10),(2,8,21),(5,21,53)); lvl=5; h,r-ind=1,1
  [3,3]((4,15,36),(1,4,10),(2,9,21)); lvl=3; h,r-ind=3,3; optimized-h
  [3,3]((1,3,8),(2,8,21),(1,4,10)); lvl=3; h,r-ind=1,1
  [4,3]((2,6,15),(4,15,36),(1,3,8),(1,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,17),(4,15,36),(1,4,10)); lvl=4; h,r-ind=1,1
    [3,3]((4,14,35),(2,7,17),(1,4,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,8),(4,14,35),(1,4,10)); lvl=4; h,r-ind=1,1
    [4,3]((2,6,15),(1,3,8),(4,14,35),(2,7,17)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,3,8),(4,14,35),(3,10,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,17),(4,14,35),(3,10,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,15),(2,7,17),(3,10,25)); lvl=5; h,r-ind=1,1
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```
      [3,3]((2,6,15),(1,3,8),(3,10,25)); lvl=5; h,r-ind=1,1
  [4,3]((1,3,9),(1,3,8),(1,4,11),(2,8,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,11),(2,8,21),(2,7,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,8),(2,8,21),(2,7,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,9),(1,4,11),(2,7,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,8),(1,3,9),(2,7,19)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,12),(1,4,11),(2,9,24)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,9),(1,4,12),(1,4,11)); lvl=3; h,r-ind=1,1
[3,3]((1,5,14),(1,4,12),(2,9,24)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
[3,3]((1,5,14),(2,9,27),(1,4,12)); lvl=2; h,r-ind=1,1
[4,3]((1,6,11),(1,5,10),(2,12,25),(1,5,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,10),(1,5,11),(3,16,33)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,12),(1,5,11),(3,16,33)); lvl=3; h,r-ind=1,1
  [3,3]((2,12,25),(1,6,12),(1,5,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,11),(1,6,12),(1,5,10),(3,16,33)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((1,6,12),(3,16,33),(2,11,22)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,10),(3,16,33),(2,11,22)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,11),(1,6,12),(2,11,22)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,10),(1,6,11),(2,11,22)); lvl=4; h,r-ind=1,1
[4,3]((1,5,10),(2,9,18),(1,5,11),(2,9,21)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,11),(5,24,51),(2,9,21),(4,18,39)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((1,5,11),(7,33,72),(2,9,20),(2,9,21)); lvl=4; h,r-ind=1,3
      [3,3]((7,33,72),(3,14,31),(2,9,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,21),(3,14,31),(2,9,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,11),(2,9,21),(3,14,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,11),(7,33,72),(3,14,31)); lvl=5; h,r-ind=1,1
    [3,3]((7,33,72),(3,14,30),(2,9,20)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((3,14,30),(4,18,39),(2,9,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,11),(7,33,72),(3,14,30),(5,24,51)); lvl=4; h,r-ind=1,3
      [3,3]((4,19,41),(3,14,30),(7,33,72)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,11),(4,19,41),(7,33,72)); lvl=5; h,r-ind=1,1
      [3,3]((5,24,51),(4,19,41),(3,14,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,11),(5,24,51),(4,19,41)); lvl=5; h,r-ind=1,1
  [4,3]((1,5,10),(5,24,51),(2,9,18),(4,18,39)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [3,3]((2,9,19),(3,14,30),(7,33,69)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
    [4,3]((1,5,10),(5,24,51),(3,14,30),(7,33,69)); lvl=4; h,r-ind=1,3
      [3,3]((4,19,40),(5,24,51),(3,14,30)); lvl=5; h,r-ind=1,1
      [3,3]((7,33,69),(4,19,40),(3,14,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(7,33,69),(4,19,40)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(4,19,40),(5,24,51)); lvl=5; h,r-ind=1,1
    [4,3]((1,5,10),(2,9,18),(2,9,19),(7,33,69)); lvl=4; h,r-ind=1,3
      [3,3]((2,9,18),(3,14,29),(2,9,19)); lvl=5; h,r-ind=1,1
      [3,3]((7,33,69),(3,14,29),(2,9,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(7,33,69),(3,14,29)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(2,9,18),(3,14,29)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,19),(4,18,39),(3,14,30)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,10),(1,5,11),(5,24,51)); lvl=3; h,r-ind=1,1
[4,3]((1,3,6),(2,6,15),(2,9,18),(2,9,21)); lvl=2; h,r-ind=9,3
  [4,3]((1,4,9),(1,4,8),(4,18,39),(2,9,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,8),(4,17,36),(2,9,19),(2,9,18)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,17,36),(3,13,27),(2,9,19)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,18),(3,13,27),(2,9,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,8),(4,17,36),(3,13,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,18),(1,4,8),(3,13,27)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,9),(1,4,8),(4,17,36)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,9),(4,17,36),(2,9,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,9),(4,18,39),(2,9,19)); lvl=4; h,r-ind=1,1
  [3,3]((2,9,21),(1,4,9),(4,18,39)); lvl=3; h,r-ind=3,3; optimized-h
  [3,3]((4,15,36),(2,9,21),(1,4,9)); lvl=3; h,r-ind=3,3; optimized-h
  [4,3]((1,3,7),(1,3,6),(1,4,9),(1,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(1,4,8),(2,7,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(1,4,8),(2,7,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,7),(1,4,9),(2,7,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,7),(2,7,15)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,7),(4,15,36),(2,6,15),(1,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(2,7,17),(4,15,36)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,9),(4,14,33),(2,7,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,9),(1,3,7),(4,14,33)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,7),(4,14,33),(2,7,17),(2,6,15)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,10,24),(4,14,33),(2,7,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,15),(3,10,24),(2,7,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,7),(2,6,15),(3,10,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,7),(3,10,24),(4,14,33)); lvl=5; h,r-ind=1,1
[4,3]((1,6,11),(1,5,10),(1,5,9),(2,9,18)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,10),(2,9,18),(2,10,19)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,9),(2,9,18),(2,10,19)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,11),(1,5,10),(2,10,19)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,9),(1,6,11),(2,10,19)); lvl=3; h,r-ind=1,1
[3,3]((1,3,6),(1,5,9),(2,9,18)); lvl=2; h,r-ind=3,3; optimized-h
[3,3]((2,12,21),(1,6,11),(1,5,9)); lvl=2; h,r-ind=1,1
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[3,3]((1,6,21),(1,6,15),(2,9,27)); lvl=1; h,r-ind=18,6; optimized-h
[3,3]((0,1,0),(1,6,15),(2,12,21)); lvl=1; h,r-ind=9,9; optimized-h
[3,3]((1,6,21),(0,1,0),(1,6,15)); lvl=1; h,r-ind=6,6; optimized-h
[4,3]((1,6,21),(2,6,21),(1,3,9),(2,9,27)); lvl=1; h,r-ind=9,3
  [4,3]((1,4,12),(1,3,10),(2,9,30),(1,3,9)); lvl=2; h,r-ind=1,3
    [3,3]((2,9,30),(1,3,10),(1,4,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,9),(1,3,10),(1,4,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,12),(1,3,9),(1,4,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,12),(2,9,30),(1,4,13)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,12),(1,5,16),(2,9,30)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
  [3,3]((1,6,21),(1,5,16),(2,9,30)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,4,12),(2,9,27),(1,5,16)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,14),(1,3,10),(2,9,30)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
  [3,3]((1,6,21),(1,4,14),(2,9,30)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,4,14),(2,6,21),(1,3,10)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(2,6,21),(1,3,9)); lvl=1; h,r-ind=9,3; optimized-h
[3,3]((1,0,0),(1,3,9),(1,3,6)); lvl=1; h,r-ind=9,3; optimized-h
[4,3]((0,1,0),(2,12,21),(1,0,0),(1,3,6)); lvl=1; h,r-ind=3,3
  [5,3]((2,3,6),(2,7,10),(1,5,8),(1,3,6),(1,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,7),(1,5,8),(1,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,4,7),(1,5,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(2,7,12),(1,4,7),(1,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,12),(2,8,13),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,8,13),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,5,8),(2,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,12),(2,8,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,12),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,7,12),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,6),(2,5,8),(1,2,4),(1,3,5)); lvl=3; h,r-ind=1,1
      [4,3]((2,4,7),(2,5,8),(1,3,5),(4,9,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,12),(2,5,8),(1,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,16),(3,7,12),(1,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,7),(4,9,16),(3,7,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,7),(3,7,12),(2,5,8)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(4,9,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,4),(2,3,6),(2,4,7),(4,9,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,6),(3,6,11),(2,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,16),(3,6,11),(2,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(2,3,6),(3,6,11)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,16),(1,2,4),(3,6,11)); lvl=5; h,r-ind=1,1
    [4,3]((2,7,10),(1,4,6),(2,5,8),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,4,6),(4,13,20)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,9),(2,7,10),(1,4,6),(4,13,20)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,10),(3,10,15),(1,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((4,13,20),(3,10,15),(1,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,9),(4,13,20),(3,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,9),(2,7,10),(3,10,15)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,8),(2,6,9),(1,3,5),(4,13,20)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,9,14),(2,6,9),(4,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((3,9,14),(1,3,5),(4,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,8),(3,9,14),(1,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,8),(3,9,14),(2,6,9)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,6),(1,2,4),(2,7,12),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,11),(1,2,4),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,11),(1,4,7),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,6,11),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,6,11),(1,2,4)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,8),(2,11,17),(1,6,10),(1,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,18),(1,6,10),(2,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(2,11,18),(2,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(1,5,9),(2,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,9),(2,11,18),(1,6,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,10),(2,12,21),(1,5,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,10),(2,12,21)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,11,17),(2,11,11),(1,6,10)); lvl=2; h,r-ind=3,3
    [4,3]((2,12,15),(1,6,9),(2,11,14),(2,11,17)); lvl=3; h,r-ind=3,1
      [4,3]((1,6,9),(1,6,8),(2,11,17),(4,22,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(4,22,31),(2,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(4,23,33),(2,11,16)); lvl=5; h,r-ind=1,1
        [4,3]((1,6,9),(4,23,33),(2,11,17),(2,11,16)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,17,25),(2,11,16),(2,11,17)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,9),(3,17,25),(2,11,17)); lvl=6; h,r-ind=1,1
          [3,3]((3,17,25),(4,23,33),(2,11,16)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,9),(3,17,25),(4,23,33)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,9),(1,6,8),(4,23,33)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,14),(4,22,31)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((2,12,15),(1,6,8),(2,11,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(1,6,10),(2,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,9),(1,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,12,15),(1,6,9)); lvl=3; h,r-ind=3,3; optimized-h
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  [4,3]((1,6,6),(2,12,15),(2,11,11),(2,11,14)); lvl=3; h,r-ind=3,1
    [4,3]((1,6,6),(1,6,7),(2,11,11),(4,22,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,12),(4,23,25)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,6),(2,11,11),(2,11,12),(4,23,25)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,11),(3,17,18),(2,11,12)); lvl=6; h,r-ind=1,1
        [3,3]((4,23,25),(3,17,18),(2,11,12)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,6),(4,23,25),(3,17,18)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,6),(2,11,11),(3,17,18)); lvl=6; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,6),(4,23,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(4,22,25),(2,11,12)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,7),(2,11,14),(4,22,25)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((2,12,15),(1,6,7),(2,11,14)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,6),(2,12,15)); lvl=3; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,6,6),(2,11,11)); lvl=3; h,r-ind=1,1
[4,3]((1,0,0),(2,3,6),(2,7,10),(1,5,5)); lvl=2; h,r-ind=3,1
  [4,3]((2,5,7),(1,4,5),(2,5,8),(2,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(2,6,9),(1,4,5),(2,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(2,7,10),(3,10,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,10),(3,10,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,5),(3,10,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(3,10,14)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,8),(2,6,9)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,7),(1,3,4),(2,5,8)); lvl=4; h,r-ind=1,1
  [4,3]((2,5,5),(2,5,7),(1,4,5),(1,5,5)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,7),(1,5,5),(1,3,4),(1,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,4),(3,11,13),(1,4,5),(1,5,5)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,8,9),(3,11,13),(1,4,5)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,5),(2,8,9),(1,4,5)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,4),(1,5,5),(2,8,9)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,4),(2,8,9),(3,11,13)); lvl=6; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,4),(3,11,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,7),(1,4,4)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(3,11,13),(1,4,5)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,3),(2,7,7),(1,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,6),(1,3,3),(1,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,6),(2,5,7),(1,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,6),(2,5,5),(1,3,3)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,2),(2,5,5),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,5,5),(2,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(1,2,3),(2,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(2,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(1,2,3)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(1,2,3),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,3),(1,1,1)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,6),(1,2,3),(1,1,1)); lvl=5; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,2),(3,4,6),(1,1,1)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,2,3),(1,1,2),(3,4,6)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,1),(2,2,3),(3,4,6)); lvl=6; h,r-ind=1,1
        [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(2,2,3)); lvl=6; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,6),(1,2,3)); lvl=5; h,r-ind=1,1
  [4,3]((1,1,2),(2,5,7),(2,3,6),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,8),(2,4,7)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,6),(1,1,2),(1,2,3),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,9),(1,2,3),(1,1,2)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,6),(3,5,9),(1,1,2)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,9),(2,4,7),(1,2,3)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,6),(3,5,9),(2,4,7)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(2,5,8)); lvl=4; h,r-ind=1,1
[3,3]((0,1,0),(1,0,0),(1,5,5)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
[5,3]((2,7,10),(1,5,8),(2,11,17),(2,11,11),(1,5,5)); lvl=2; h,r-ind=3,1
  [4,3]((1,5,7),(3,14,19),(1,4,6),(1,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,9,13),(3,14,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,13),(3,14,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(1,5,8),(2,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(1,4,6),(2,9,13)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,17),(1,5,7),(1,5,8)); lvl=3; h,r-ind=1,1
  [5,3]((1,4,5),(3,14,19),(4,19,25),(3,14,18),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(3,14,18),(1,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(2,9,12),(1,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,12),(4,19,25),(3,14,18)); lvl=4; h,r-ind=1,1
    [3,3]((3,14,19),(2,9,12),(4,19,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(3,14,19),(2,9,12)); lvl=4; h,r-ind=1,1
  [3,3]((2,7,10),(1,4,5),(1,4,6)); lvl=3; h,r-ind=1,1
  [4,3]((2,10,13),(4,19,25),(1,5,6),(3,14,18)); lvl=3; h,r-ind=1,1
    [3,3]((4,19,25),(5,24,31),(3,14,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(5,24,31),(3,14,18)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,13),(4,19,25),(5,24,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(2,10,13),(5,24,31)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,5),(1,5,5),(1,5,6),(3,14,18)); lvl=3; h,r-ind=1,1
```

```
        [3,3]((1,5,5),(2,9,11),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,18),(2,9,11),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(3,14,18),(2,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(1,5,5),(2,9,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,7),(2,10,13),(3,14,19),(4,19,25)); lvl=3; h,r-ind=1,1
        [3,3]((2,10,13),(4,19,25),(5,24,32)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,19),(4,19,25),(5,24,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(2,10,13),(5,24,32)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,19),(1,5,7),(5,24,32)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,17),(1,5,7),(2,11,14),(2,10,13)); lvl=3; h,r-ind=1,1
        [3,3]((5,26,35),(1,5,7),(2,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,26,35),(2,11,14),(2,10,13)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
        [3,3]((4,22,31),(5,26,35),(2,11,14)); lvl=4; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
        [4,3]((4,22,31),(2,11,17),(5,26,35),(1,5,7)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((2,11,16),(7,37,52),(1,5,7),(2,11,17)); lvl=5; h,r-ind=1,3
            [3,3]((1,5,7),(3,16,23),(7,37,52)); lvl=6; h,r-ind=1,1
            [3,3]((2,11,16),(3,16,23),(7,37,52)); lvl=6; h,r-ind=1,1
            [3,3]((2,11,17),(1,5,7),(3,16,23)); lvl=6; h,r-ind=1,1
            [3,3]((2,11,16),(2,11,17),(3,16,23)); lvl=6; h,r-ind=1,1
          [4,3]((3,16,22),(7,37,52),(5,26,35),(1,5,7)); lvl=5; h,r-ind=1,3
            [3,3]((4,21,29),(7,37,52),(1,5,7)); lvl=6; h,r-ind=1,1
            [3,3]((5,26,35),(4,21,29),(1,5,7)); lvl=6; h,r-ind=1,1
            [3,3]((3,16,22),(5,26,35),(4,21,29)); lvl=6; h,r-ind=1,1
            [3,3]((3,16,22),(4,21,29),(7,37,52)); lvl=6; h,r-ind=1,1
          [3,3]((3,16,22),(2,11,16),(7,37,52)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [3,3]((3,16,22),(4,22,31),(2,11,16)); lvl=5; h,r-ind=1,1
      [4,3]((2,11,14),(2,10,13),(2,11,11),(1,5,6)); lvl=3; h,r-ind=1,1
        [3,3]((5,26,32),(1,5,6),(2,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,14),(5,26,32),(2,10,13)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
        [4,3]((4,22,25),(2,11,11),(5,26,32),(1,5,6)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((2,11,12),(7,37,43),(1,5,6),(2,11,11)); lvl=5; h,r-ind=1,3
            [3,3]((7,37,43),(3,16,18),(1,5,6)); lvl=6; h,r-ind=1,1
            [3,3]((2,11,11),(3,16,18),(1,5,6)); lvl=6; h,r-ind=1,1
            [3,3]((2,11,12),(2,11,11),(3,16,18)); lvl=6; h,r-ind=1,1
            [3,3]((2,11,12),(7,37,43),(3,16,18)); lvl=6; h,r-ind=1,1
          [4,3]((3,16,19),(7,37,43),(5,26,32),(1,5,6)); lvl=5; h,r-ind=1,3
            [3,3]((7,37,43),(4,21,25),(1,5,6)); lvl=6; h,r-ind=1,1
            [3,3]((5,26,32),(4,21,25),(1,5,6)); lvl=6; h,r-ind=1,1
            [3,3]((3,16,19),(5,26,32),(4,21,25)); lvl=6; h,r-ind=1,1
            [3,3]((3,16,19),(7,37,43),(4,21,25)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,12),(3,16,19),(7,37,43)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [3,3]((2,11,12),(4,22,25),(3,16,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,14),(4,22,25),(5,26,32)); lvl=4; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,5,5),(2,11,11),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,11,11),(1,5,5)); lvl=2; h,r-ind=1,1
```

21.15 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,7,21)); lvl=0; h,r-ind=21,63
  [4,3]((1,0,0),(2,7,21),(1,7,14),(2,14,21)); lvl=1; h,r-ind=49,7; alert-h-inc
    [6,3]((1,5,9),(1,7,12),(2,7,14),(1,7,14),(1,4,9),(1,5,12)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,10),(1,7,13),(1,7,12)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,5,10),(2,11,20),(2,10,19),(1,7,12)); lvl=3; h,r-ind=1,1
        [3,3]((2,10,19),(2,11,20),(5,27,50)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,12),(1,6,11),(2,11,20),(5,27,50)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,11),(3,17,31),(5,27,50)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,20),(3,17,31),(5,27,50)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,12),(2,11,20),(3,17,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,12),(1,6,11),(3,17,31)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,10),(1,6,11),(2,10,19),(5,27,50)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,16,30),(1,6,11),(5,27,50)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,19),(3,16,30),(5,27,50)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(3,16,30),(1,6,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,19),(1,5,10),(3,16,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,9),(2,11,20),(1,7,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,9),(1,4,8),(2,11,20),(2,10,19)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,8),(2,10,19),(3,15,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,20),(2,10,19),(3,15,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(1,4,8),(3,15,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,20),(1,5,9),(3,15,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(1,4,8),(2,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,10),(1,4,8),(2,10,19)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,10),(1,7,14),(1,6,13),(1,7,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,6,12),(1,7,14),(1,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(1,6,12),(1,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(1,7,13),(1,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(1,6,12),(1,7,13)); lvl=4; h,r-ind=1,1
```

```
  [3,3]((1,5,10),(1,5,12),(1,6,13)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,5,10),(2,9,20),(2,9,19),(1,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,19),(2,9,20),(5,23,50)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,12),(1,5,11),(2,9,20),(5,23,50)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,14,31),(5,23,50),(1,5,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,12),(3,14,31),(1,5,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,20),(3,14,31),(5,23,50)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,12),(2,9,20),(3,14,31)); lvl=5; h,r-ind=1,1
    [4,3]((1,5,10),(1,5,11),(2,9,19),(5,23,50)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,11),(5,23,50),(3,14,30)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,19),(5,23,50),(3,14,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(1,5,11),(3,14,30)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,19),(1,5,10),(3,14,30)); lvl=5; h,r-ind=1,1
  [3,3]((1,5,10),(1,4,8),(2,9,19)); lvl=3; h,r-ind=1,1
  [4,3]((2,9,20),(1,4,8),(2,9,19),(1,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,28),(1,4,8),(2,9,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,20),(3,13,28),(2,9,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,9),(2,9,20),(3,13,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,9),(3,13,28),(1,4,8)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,8),(2,7,14),(1,4,9)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,20),(1,5,12),(1,4,9)); lvl=3; h,r-ind=1,1
[3,3]((1,4,11),(1,4,9),(1,5,12)); lvl=2; h,r-ind=2,2; optimized-h
[5,3]((1,3,9),(1,3,7),(2,7,14),(1,4,11),(1,4,9)); lvl=2; h,r-ind=2,1
  [4,3]((2,7,17),(2,7,15),(1,4,10),(1,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(1,4,10),(4,15,35)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,16),(2,7,17),(1,4,10),(4,15,35)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,11,26),(2,7,17),(1,4,10)); lvl=5; h,r-ind=1,1
      [3,3]((4,15,35),(3,11,26),(1,4,10)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,16),(4,15,35),(3,11,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,16),(3,11,26),(2,7,17)); lvl=5; h,r-ind=1,1
    [4,3]((2,7,15),(2,7,16),(1,4,9),(4,15,35)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,16),(4,15,35),(3,11,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,9),(4,15,35),(3,11,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,15),(2,7,16),(3,11,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,9),(2,7,15),(3,11,25)); lvl=5; h,r-ind=1,1
  [3,3]((2,7,14),(2,7,15),(1,4,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,7),(2,7,14),(2,7,15)); lvl=3; h,r-ind=1,1
  [5,3]((1,3,9),(1,3,8),(2,7,17),(1,4,11),(1,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,18),(1,4,10),(2,7,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,8),(2,7,18),(2,7,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,9),(1,3,8),(3,10,27)); lvl=4; h,r-ind=1,1
    [4,3]((4,14,37),(2,7,18),(3,11,29),(1,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,10),(2,7,18),(5,18,47)); lvl=5; h,r-ind=1,1
      [3,3]((4,14,37),(2,7,18),(5,18,47)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,29),(4,14,37),(5,18,47)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,29),(1,4,10),(5,18,47)); lvl=5; h,r-ind=1,1
    [3,3]((3,11,29),(1,4,11),(1,4,10)); lvl=4; h,r-ind=1,1
    [5,3]((1,3,9),(3,10,27),(4,14,37),(3,11,29),(1,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,14,37),(2,7,19),(3,10,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,9),(2,7,19),(3,10,27)); lvl=5; h,r-ind=1,1
      [3,3]((4,14,37),(2,7,19),(3,11,29)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,11),(2,7,19),(3,11,29)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,9),(1,4,11),(2,7,19)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,8),(3,10,27),(4,14,37),(2,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,27),(4,14,37),(5,17,45)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,18),(4,14,37),(5,17,45)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,8),(3,10,27),(5,17,45)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,18),(1,3,8),(5,17,45)); lvl=5; h,r-ind=1,1
  [4,3]((1,3,8),(2,7,17),(1,3,7),(2,7,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,7),(4,13,31),(2,7,16),(2,7,15)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,10,23),(4,13,31),(2,7,16)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,15),(3,10,23),(2,7,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,7),(2,7,15),(3,10,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,7),(3,10,23),(4,13,31)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,8),(1,3,7),(4,13,31)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,8),(4,13,31),(2,7,17),(2,7,16)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,16),(2,7,17),(3,10,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,8),(2,7,17),(3,10,24)); lvl=5; h,r-ind=1,1
      [3,3]((4,13,31),(2,7,16),(3,10,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,8),(4,13,31),(3,10,24)); lvl=5; h,r-ind=1,1
[3,3]((1,3,9),(2,7,21),(1,4,11)); lvl=2; h,r-ind=1,1
[3,3]((1,3,9),(1,2,6),(1,3,7)); lvl=2; h,r-ind=2,2; optimized-h
[4,3]((1,0,0),(1,2,6),(1,3,7),(2,7,14)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,6),(2,5,12),(1,3,7)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,6),(2,7,14),(2,5,12),(1,3,7)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((1,3,7),(2,7,14),(2,6,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(2,7,14),(2,6,13)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,12),(1,3,7),(2,6,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,12),(2,6,13)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,6),(1,2,5),(2,5,12)); lvl=3; h,r-ind=1,1
```

```
  [4,3]((1,3,6),(1,2,4),(1,2,5),(2,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(1,2,4),(1,2,5)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,12),(2,5,11),(1,2,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,12),(2,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,11),(1,2,4)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,6),(1,1,3),(1,2,5)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(1,2,4),(1,1,3),(1,2,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(3,4,10),(1,2,4),(1,2,5)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,4),(2,3,7),(1,2,5)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,10),(2,3,7),(1,2,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(2,3,7)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,10),(1,1,2),(2,3,7)); lvl=5; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,10),(1,2,5)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,2),(1,1,3),(3,4,10)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,2,5),(1,1,2),(3,4,10)); lvl=5; h,r-ind=1,1
      [3,3]((2,2,5),(1,1,3),(3,4,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,5),(1,1,3)); lvl=5; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,5),(1,1,2)); lvl=5; h,r-ind=1,1
[3,3]((1,7,11),(1,5,9),(1,7,12)); lvl=2; h,r-ind=2,2; optimized-h
[5,3]((1,7,11),(1,5,9),(2,7,14),(1,4,7),(1,6,9)); lvl=2; h,r-ind=2,1
  [3,3]((2,8,15),(2,7,14),(1,5,9)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,10),(2,8,15),(2,10,17),(1,5,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,9),(4,20,35),(2,9,16),(2,8,15)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,14,25),(4,20,35),(2,9,16)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,15),(3,14,25),(2,9,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,9),(2,8,15),(3,14,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,9),(3,14,25),(4,20,35)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,10),(1,5,9),(4,20,35)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,10),(4,20,35),(2,10,17),(2,9,16)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,20,35),(3,15,26),(2,9,16)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,17),(3,15,26),(2,9,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(2,10,17),(3,15,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(4,20,35),(3,15,26)); lvl=5; h,r-ind=1,1
  [4,3]((2,8,15),(1,5,8),(2,10,17),(1,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,10,17),(2,9,16),(1,5,8),(4,18,31)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,16),(4,18,31),(3,14,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(4,18,31),(3,14,24)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,17),(2,9,16),(3,14,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(2,10,17),(3,14,24)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,7),(1,5,8),(4,18,31)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,7),(2,8,15),(2,9,16),(4,18,31)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,13,23),(2,8,15),(2,9,16)); lvl=5; h,r-ind=1,1
      [3,3]((4,18,31),(3,13,23),(2,9,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,7),(4,18,31),(3,13,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,7),(3,13,23),(2,8,15)); lvl=5; h,r-ind=1,1
  [5,3]((1,7,11),(1,6,10),(1,6,9),(1,5,8),(2,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,18),(1,5,8),(2,10,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(2,11,18),(2,10,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(1,7,11),(3,18,29)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,18),(4,23,37),(1,5,8),(3,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((5,28,45),(3,17,27),(4,23,37)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,18),(5,28,45),(4,23,37)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(2,11,18),(5,28,45)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(5,28,45),(3,17,27)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,10),(3,18,29),(2,11,18),(4,23,37)); lvl=4; h,r-ind=1,1
      [3,3]((3,18,29),(4,23,37),(5,29,47)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,18),(4,23,37),(5,29,47)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(3,18,29),(5,29,47)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,18),(1,6,10),(5,29,47)); lvl=5; h,r-ind=1,1
    [5,3]((1,7,11),(1,6,9),(3,18,29),(4,23,37),(3,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,19),(4,23,37),(3,17,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(2,12,19),(3,17,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,11),(1,6,9),(2,12,19)); lvl=5; h,r-ind=1,1
      [3,3]((3,18,29),(2,12,19),(4,23,37)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,11),(3,18,29),(2,12,19)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,9),(1,5,8),(3,17,27)); lvl=4; h,r-ind=1,1
  [3,3]((2,8,15),(2,7,14),(1,4,7)); lvl=3; h,r-ind=1,1
[3,3]((1,4,6),(1,4,7),(1,6,9)); lvl=2; h,r-ind=2,2; optimized-h
[4,3]((1,0,0),(2,7,14),(1,4,6),(1,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,12),(1,4,6),(1,4,7)); lvl=3; h,r-ind=1,1
  [4,3]((2,7,14),(1,3,6),(2,7,12),(1,4,7)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((2,7,13),(2,7,12),(1,3,6)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,14),(2,7,13),(1,3,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(2,7,14),(2,7,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(2,7,13),(2,7,12)); lvl=4; h,r-ind=1,1
  [3,3]((2,7,12),(1,3,5),(1,4,6)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,3),(1,3,5),(1,4,6)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,6),(2,7,12),(1,3,5),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,11),(2,7,12),(1,3,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(2,6,11),(1,3,5)); lvl=4; h,r-ind=1,1
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      [3,3]((1,3,6),(1,2,4),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,6,11),(2,7,12)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,3),(1,3,5),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,5),(3,6,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,4),(1,1,2),(1,3,5),(3,6,10)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,4,7),(1,1,2),(3,6,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,7),(1,3,5),(3,6,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(2,4,7),(1,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(2,4,7),(1,1,2)); lvl=5; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,2),(1,2,3),(3,6,10)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,5),(1,2,3),(3,6,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(2,3,5),(3,6,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,0),(2,3,5),(1,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(1,0,0),(2,3,5)); lvl=5; h,r-ind=1,1
  [3,3]((2,14,21),(1,7,11),(1,6,9)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,7,14),(2,14,21)); lvl=1; h,r-ind=7,7; optimized-h
[3,3]((0,1,0),(1,0,0),(2,14,21)); lvl=1; h,r-ind=21,63
  [3,3]((1,4,4),(0,1,0),(2,11,11)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,7,10),(0,1,0),(2,11,11)); lvl=2; h,r-ind=9,27; optimized-h
  [3,3]((2,14,21),(1,7,10),(0,1,0)); lvl=2; h,r-ind=1,1
  [5,3]((1,7,10),(1,6,9),(1,4,6),(1,4,4),(2,11,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,12,17),(1,5,7),(2,11,15),(1,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,24),(1,5,7),(2,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,17),(3,17,24),(2,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,24),(1,6,9),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,17),(3,17,24),(1,6,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(1,4,6),(1,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,10),(2,12,17),(1,6,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,7),(2,11,15),(2,10,13),(2,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,15),(2,11,14),(3,16,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,13),(2,11,14),(3,16,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,15),(3,16,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(2,10,13),(3,16,21)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,7),(2,10,13),(1,4,6),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,12),(1,4,5),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(2,9,12),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(2,10,13),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,13),(2,9,12),(1,4,5)); lvl=4; h,r-ind=1,1
    [5,3]((1,5,5),(2,10,13),(2,11,14),(1,4,4),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,4,5),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,13),(1,4,5),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,14),(2,10,13),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(2,11,14),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(1,4,4),(1,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(1,5,5),(2,11,14)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,6,7),(1,5,5),(2,11,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,10),(2,12,17),(2,11,15),(2,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,15),(2,12,17),(5,29,40)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,10),(1,6,8),(2,12,17),(5,29,40)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,6,8),(3,18,25),(5,29,40)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,17),(3,18,25),(5,29,40)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(1,6,8),(3,18,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,17),(1,7,10),(3,18,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,15),(5,29,40)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,14),(2,11,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(1,6,7),(2,11,14)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,14,21),(1,7,10),(1,6,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,4,6),(1,4,4)); lvl=2; h,r-ind=8,4; optimized-h
  [3,3]((1,0,0),(1,4,4),(0,1,0)); lvl=2; h,r-ind=4,4; optimized-h
[3,3]((1,7,21),(2,7,21),(1,7,14)); lvl=1; h,r-ind=49,7; alert-h-inc
  [5,3]((1,7,21),(2,14,35),(1,5,15),(1,5,14),(4,21,56)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,14),(2,11,29),(4,21,56),(2,11,30)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,11,29),(3,16,43),(4,21,56)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,14),(3,16,43),(4,21,56)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,30),(2,11,29),(3,16,43)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,14),(2,11,30),(3,16,43)); lvl=4; h,r-ind=1,1
    [4,3]((3,16,45),(4,22,61),(1,5,14),(2,11,30)); lvl=3; h,r-ind=1,1
      [3,3]((5,27,75),(2,11,30),(4,22,61)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,45),(5,27,75),(4,22,61)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,14),(3,16,45),(5,27,75)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,14),(5,27,75),(2,11,30)); lvl=4; h,r-ind=1,1
    [3,3]((3,16,45),(1,5,15),(1,5,14)); lvl=3; h,r-ind=1,1
    [5,3]((2,12,33),(1,6,18),(3,16,45),(4,22,61),(1,5,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,15),(4,22,63),(1,6,18),(1,6,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,32),(1,6,17),(1,6,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,15),(2,11,32),(1,6,18)); lvl=5; h,r-ind=1,1
        [3,3]((4,22,63),(2,11,32),(1,6,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,15),(4,22,63),(2,11,32)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,31),(4,22,63),(1,6,17)); lvl=4; h,r-ind=1,1
      [4,3]((2,12,33),(3,17,47),(2,11,31),(1,6,17)); lvl=4; h,r-ind=1,1
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        [3,3]((4,23,64),(2,11,31),(3,17,47)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,33),(4,23,64),(3,17,47)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,17),(4,23,64),(2,11,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,33),(1,6,17),(4,23,64)); lvl=5; h,r-ind=1,1
      [3,3]((4,22,61),(3,17,47),(2,11,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,31),(1,5,15),(4,22,63)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,31),(3,16,45),(1,5,15)); lvl=4; h,r-ind=1,1
      [3,3]((4,22,61),(2,11,31),(3,16,45)); lvl=4; h,r-ind=1,1
    [4,3]((2,12,31),(1,6,16),(2,11,29),(2,11,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,45),(2,11,30),(2,11,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,31),(3,17,45),(2,11,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,45),(1,6,16),(2,11,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,31),(3,17,45),(1,6,16)); lvl=4; h,r-ind=1,1
    [4,3]((2,12,33),(4,22,61),(1,6,16),(2,11,30)); lvl=3; h,r-ind=1,1
      [4,3]((4,22,61),(3,17,47),(2,11,30),(6,34,93)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,47),(6,34,93),(5,28,77)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,30),(6,34,93),(5,28,77)); lvl=5; h,r-ind=1,1
        [3,3]((4,22,61),(3,17,47),(5,28,77)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,30),(4,22,61),(5,28,77)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,16),(2,11,30),(6,34,93)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,16),(2,12,33),(3,17,47),(6,34,93)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,23,63),(2,12,33),(3,17,47)); lvl=5; h,r-ind=1,1
        [3,3]((6,34,93),(4,23,63),(3,17,47)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,16),(6,34,93),(4,23,63)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,16),(4,23,63),(2,12,33)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,19),(1,7,21),(2,12,33),(1,6,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,21),(1,7,20),(1,6,18),(1,6,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,18),(1,6,17),(2,13,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,20),(1,6,17),(2,13,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,21),(1,7,20),(2,13,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,21),(1,6,18),(2,13,38)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,19),(1,7,20),(1,6,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,19),(2,12,33),(1,6,17)); lvl=4; h,r-ind=1,1
    [4,3]((2,14,35),(2,12,31),(1,6,16),(1,7,18)); lvl=3; h,r-ind=1,1
      [4,3]((2,13,33),(4,26,67),(1,6,16),(2,12,31)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,26,67),(3,19,49),(1,6,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,31),(3,19,49),(1,6,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,33),(2,12,31),(3,19,49)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,33),(4,26,67),(3,19,49)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,18),(4,26,67),(1,6,16)); lvl=4; h,r-ind=1,1
      [4,3]((2,14,35),(2,13,33),(1,7,18),(4,26,67)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,33),(4,26,67),(3,20,51)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,18),(4,26,67),(3,20,51)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,35),(1,7,18),(3,20,51)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,35),(2,13,33),(3,20,51)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,19),(2,12,33),(1,6,16),(1,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,33),(2,13,35),(1,6,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,18),(2,13,35),(1,6,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,19),(2,12,33),(2,13,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,18),(1,7,19),(2,13,35)); lvl=4; h,r-ind=1,1
  [5,3]((1,4,11),(1,5,13),(1,4,12),(1,5,14),(4,21,56)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,13),(2,10,27),(4,21,56)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,27),(1,5,14),(4,21,56)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,14),(1,4,12),(3,14,39)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,13),(2,10,27),(4,19,52),(3,14,38)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,27),(4,19,52),(5,24,65)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,38),(4,19,52),(5,24,65)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,13),(2,10,27),(5,24,65)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,38),(1,5,13),(5,24,65)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,11),(1,5,13),(3,14,38)); lvl=3; h,r-ind=1,1
    [4,3]((2,10,27),(1,5,14),(3,14,39),(4,19,52)); lvl=3; h,r-ind=1,1
      [3,3]((5,24,66),(3,14,39),(1,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,27),(5,24,66),(1,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,52),(2,10,27),(5,24,66)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,52),(5,24,66),(3,14,39)); lvl=4; h,r-ind=1,1
    [5,3]((1,4,11),(1,4,12),(3,14,39),(4,19,52),(3,14,38)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,25),(3,14,39),(1,4,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(2,9,25),(1,4,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,25),(3,14,39),(4,19,52)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,25),(3,14,38),(4,19,52)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(2,9,25),(3,14,38)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,11),(2,7,21),(1,4,12)); lvl=2; h,r-ind=1,1
  [5,3]((1,7,14),(1,5,12),(1,5,13),(2,14,35),(4,21,56)); lvl=2; h,r-ind=1,1
    [4,3]((2,11,28),(2,11,29),(1,5,13),(4,21,56)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,16,42),(2,11,29),(4,21,56)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,13),(3,16,42),(4,21,56)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,28),(3,16,42),(2,11,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,13),(2,11,28),(3,16,42)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,28),(1,6,15),(2,11,29),(2,12,31)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,44),(1,6,15),(2,12,31)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((2,11,29),(3,17,44),(2,12,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,28),(2,11,29),(3,17,44)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,28),(3,17,44),(1,6,15)); lvl=4; h,r-ind=1,1
      [4,3]((4,22,55),(2,12,29),(2,11,28),(1,6,15)); lvl=3; h,r-ind=1,1
        [4,3]((3,17,42),(6,34,85),(1,6,15),(2,12,29)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,23,57),(6,34,85),(1,6,15)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,29),(4,23,57),(1,6,15)); lvl=5; h,r-ind=1,1
          [3,3]((3,17,42),(2,12,29),(4,23,57)); lvl=5; h,r-ind=1,1
          [3,3]((3,17,42),(4,23,57),(6,34,85)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,28),(6,34,85),(1,6,15)); lvl=4; h,r-ind=1,1
        [4,3]((4,22,55),(3,17,42),(2,11,28),(6,34,85)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,17,42),(6,34,85),(5,28,70)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,28),(6,34,85),(5,28,70)); lvl=5; h,r-ind=1,1
          [3,3]((4,22,55),(2,11,28),(5,28,70)); lvl=5; h,r-ind=1,1
          [3,3]((4,22,55),(3,17,42),(5,28,70)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,15),(2,14,35),(1,7,17),(2,12,31)); lvl=3; h,r-ind=1,1
        [4,3]((1,7,17),(4,26,65),(2,14,35),(2,13,33)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,26,65),(3,20,50),(2,13,33)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,35),(3,20,50),(2,13,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,17),(4,26,65),(3,20,50)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,35),(1,7,17),(3,20,50)); lvl=5; h,r-ind=1,1
        [4,3]((2,12,31),(1,6,15),(4,26,65),(2,13,33)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,15),(4,26,65),(3,19,48)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,33),(4,26,65),(3,19,48)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,31),(2,13,33),(3,19,48)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,31),(1,6,15),(3,19,48)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,15),(1,7,17),(4,26,65)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,16),(2,12,29),(1,6,15),(1,7,17)); lvl=3; h,r-ind=1,1
        [3,3]((2,13,31),(2,12,29),(1,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,17),(2,13,31),(1,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,16),(1,7,17),(2,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,16),(2,13,31),(2,12,29)); lvl=4; h,r-ind=1,1
      [4,3]((3,16,40),(4,22,55),(2,11,28),(1,5,13)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,28),(4,22,55),(5,27,68)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,40),(4,22,55),(5,27,68)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,13),(3,16,40),(5,27,68)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,13),(2,11,28),(5,27,68)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,40),(1,5,12),(1,5,13)); lvl=3; h,r-ind=1,1
      [5,3]((1,6,13),(3,16,40),(4,22,55),(2,12,29),(1,5,12)); lvl=3; h,r-ind=1,1
        [4,3]((2,11,27),(3,17,42),(2,12,29),(1,6,14)); lvl=4; h,r-ind=1,1
          [3,3]((2,12,29),(3,17,42),(4,23,56)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,27),(3,17,42),(4,23,56)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,14),(2,11,27),(4,23,56)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,14),(2,12,29),(4,23,56)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,27),(4,22,53),(1,6,14)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,12),(1,6,13),(4,22,53),(1,6,14)); lvl=4; h,r-ind=1,1
          [3,3]((1,6,13),(1,6,14),(2,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((4,22,53),(1,6,14),(2,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(4,22,53),(2,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(1,6,13),(2,11,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,12),(2,11,27),(4,22,53)); lvl=4; h,r-ind=1,1
        [3,3]((4,22,55),(2,11,27),(3,17,42)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,40),(4,22,55),(2,11,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,12),(3,16,40),(2,11,27)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,14),(1,7,16),(1,6,13),(2,12,29)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,16),(2,12,29),(1,6,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,16),(1,7,15),(1,6,14)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,14),(1,7,15),(1,6,13),(1,6,14)); lvl=4; h,r-ind=1,1
          [3,3]((1,6,13),(1,6,14),(2,13,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,15),(1,6,14),(2,13,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,14),(1,7,15),(2,13,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,14),(1,6,13),(2,13,28)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,11),(1,5,12),(1,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,12),(1,5,15),(1,5,14)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,7,21),(1,7,14)); lvl=1; h,r-ind=7,7; optimized-h
```

21.16 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,8,21)); lvl=0; h,r-ind=21,441
  [4,3]((1,3,7),(1,0,0),(2,7,18),(1,4,10)); lvl=1; h,r-ind=1,2
    [3,3]((1,2,5),(2,7,18),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(1,2,5),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(1,4,10),(2,7,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(1,2,5),(1,4,10)); lvl=2; h,r-ind=1,1
  [5,3]((2,12,31),(1,5,13),(2,10,25),(2,7,18),(1,4,10)); lvl=1; h,r-ind=1,1
    [3,3]((2,9,23),(1,4,10),(2,7,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,13),(2,9,23),(2,7,18)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((2,12,31),(1,5,13),(5,25,64),(3,16,41)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,13),(5,25,64),(4,21,54)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,41),(5,25,64),(4,21,54)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,31),(3,16,41),(4,21,54)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,31),(1,5,13),(4,21,54)); lvl=3; h,r-ind=1,1
    [4,3]((5,24,61),(2,9,23),(6,29,74),(1,4,10)); lvl=2; h,r-ind=1,1
      [3,3]((6,29,74),(7,33,84),(2,9,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,10),(7,33,84),(2,9,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,24,61),(6,29,74),(7,33,84)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,10),(5,24,61),(7,33,84)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,13),(2,9,23),(6,29,74),(5,25,64)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,23),(6,29,74),(7,34,87)); lvl=3; h,r-ind=1,1
      [3,3]((5,25,64),(6,29,74),(7,34,87)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,13),(5,25,64),(7,34,87)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,13),(2,9,23),(7,34,87)); lvl=3; h,r-ind=1,1
    [6,3]((2,11,28),(3,15,38),(5,24,61),(6,29,74),(5,25,64),(3,16,41)); lvl=2; h,r-ind=1,1
      [3,3]((5,24,61),(4,20,51),(3,15,38)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,28),(4,20,51),(3,15,38)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,28),(3,16,41),(4,20,51)); lvl=3; h,r-ind=1,1
      [3,3]((6,29,74),(5,24,61),(4,20,51)); lvl=3; h,r-ind=1,1
      [3,3]((6,29,74),(5,25,64),(4,20,51)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,41),(5,25,64),(4,20,51)); lvl=3; h,r-ind=1,1
    [3,3]((2,12,31),(2,11,28),(3,16,41)); lvl=2; h,r-ind=1,1
    [4,3]((3,15,38),(5,24,61),(1,4,10),(2,10,25)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,10),(5,24,61),(4,19,48)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,38),(5,24,61),(4,19,48)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,38),(2,10,25),(4,19,48)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,25),(1,4,10),(4,19,48)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,28),(3,15,38),(2,10,25)); lvl=2; h,r-ind=1,1
  [3,3]((1,8,21),(2,12,31),(1,5,13)); lvl=1; h,r-ind=1,1
  [5,3]((1,5,12),(2,10,25),(1,4,9),(1,3,7),(1,4,10)); lvl=1; h,r-ind=1,1
    [5,3]((3,12,29),(3,13,31),(4,17,41),(1,3,7),(1,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,19),(3,13,31),(4,17,41)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,29),(2,8,19),(4,17,41)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,29),(2,8,19),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,19),(1,4,9),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,19),(1,4,9),(3,13,31)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,12),(3,13,31),(1,4,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,12),(2,9,22),(3,13,31),(4,17,41)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,22),(4,17,41),(5,22,53)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,31),(4,17,41),(5,22,53)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,12),(2,9,22),(5,22,53)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,31),(1,5,12),(5,22,53)); lvl=3; h,r-ind=1,1
    [3,3]((3,12,29),(1,4,10),(1,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,22),(3,12,29),(4,17,41),(1,4,10)); lvl=2; h,r-ind=1,1
      [3,3]((3,12,29),(4,17,41),(5,21,51)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,22),(4,17,41),(5,21,51)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,10),(2,9,22),(5,21,51)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,10),(3,12,29),(5,21,51)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,22),(2,10,25),(1,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,12),(2,9,22),(2,10,25)); lvl=2; h,r-ind=1,1
  [5,3]((1,5,12),(1,5,10),(1,4,9),(2,13,30),(2,13,26)); lvl=1; h,r-ind=1,1
    [4,3]((1,6,12),(1,6,13),(2,13,26),(2,13,28)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,13),(4,25,52),(2,13,27),(2,13,28)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,19,40),(4,25,52),(2,13,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,28),(3,19,40),(2,13,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,13),(2,13,28),(3,19,40)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,13),(3,19,40),(4,25,52)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(1,6,13),(4,25,52)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,12),(4,25,52),(2,13,26),(2,13,27)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,19,39),(2,13,26),(2,13,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,25,52),(3,19,39),(2,13,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(4,25,52),(3,19,39)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(3,19,39),(2,13,26)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,14),(2,13,30),(1,6,13),(2,13,28)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,13),(4,25,56),(2,13,29),(2,13,28)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,25,56),(3,19,42),(2,13,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,28),(3,19,42),(2,13,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,13),(4,25,56),(3,19,42)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,28),(1,6,13),(3,19,42)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,14),(1,6,13),(4,25,56)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,14),(4,25,56),(2,13,30),(2,13,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,30),(3,19,43),(2,13,29)); lvl=4; h,r-ind=1,1
        [3,3]((4,25,56),(3,19,43),(2,13,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,14),(4,25,56),(3,19,43)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,14),(2,13,30),(3,19,43)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,12),(2,11,24),(1,6,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,10),(1,6,12),(2,11,24),(1,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,23),(1,6,12),(2,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,23),(1,5,11),(2,11,24)); lvl=3; h,r-ind=1,1
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      [3,3]((1,5,10),(2,11,23),(1,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,10),(2,11,23),(1,6,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(1,5,10),(1,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,12),(1,4,9),(1,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,12),(1,6,14),(2,11,24),(1,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,14),(2,11,25),(2,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,11),(2,11,25),(2,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,11),(1,5,12),(2,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,12),(1,6,14),(2,11,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,14),(2,11,24),(1,6,13)); lvl=2; h,r-ind=1,1
  [4,3]((1,8,21),(1,8,13),(2,13,30),(2,13,26)); lvl=1; h,r-ind=12,1
    [4,3]((1,7,15),(1,7,13),(2,13,26),(2,13,28)); lvl=2; h,r-ind=2,1
      [4,3]((1,7,14),(2,13,27),(1,7,13),(2,13,26)); lvl=3; h,r-ind=1,1
        [3,3]((2,13,27),(2,13,26),(3,20,40)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,13),(2,13,26),(3,20,40)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,14),(1,7,13),(3,20,40)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,14),(2,13,27),(3,20,40)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,15),(1,7,14),(2,13,27),(2,13,28)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,14),(2,13,27),(3,20,42)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,28),(2,13,27),(3,20,42)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,15),(1,7,14),(3,20,42)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,28),(1,7,15),(3,20,42)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,17),(2,13,30),(1,7,15),(2,13,28)); lvl=2; h,r-ind=2,1
      [4,3]((1,7,16),(1,7,15),(2,13,29),(2,13,28)); lvl=3; h,r-ind=1,1
        [3,3]((2,13,29),(2,13,28),(3,20,44)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,15),(2,13,28),(3,20,44)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,16),(1,7,15),(3,20,44)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,16),(2,13,29),(3,20,44)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,17),(1,7,16),(2,13,29),(2,13,30)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,16),(2,13,29),(3,20,46)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,30),(2,13,29),(3,20,46)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,17),(1,7,16),(3,20,46)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,30),(1,7,17),(3,20,46)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,21),(1,8,17),(1,7,17),(1,7,15)); lvl=2; h,r-ind=2,1
      [4,3]((1,8,19),(1,8,17),(1,7,16),(1,7,15)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,16),(3,22,49),(1,7,15)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,18),(1,8,17),(3,22,49),(1,7,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,8,17),(2,15,33),(1,7,15)); lvl=5; h,r-ind=1,1
          [3,3]((3,22,49),(2,15,33),(1,7,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,18),(3,22,49),(2,15,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,18),(1,8,17),(2,15,33)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,19),(1,8,18),(1,7,16),(3,22,49)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,15,34),(1,8,18),(3,22,49)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,16),(2,15,34),(3,22,49)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,19),(2,15,34),(1,8,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,16),(1,8,19),(2,15,34)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,21),(1,8,19),(1,7,16),(1,7,17)); lvl=3; h,r-ind=1,1
        [4,3]((1,8,19),(1,8,20),(1,7,16),(3,22,53)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,8,20),(3,22,53),(2,15,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,16),(3,22,53),(2,15,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,19),(1,7,16),(2,15,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,19),(1,8,20),(2,15,36)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,17),(1,7,16),(3,22,53)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,21),(1,7,17),(1,8,20),(3,22,53)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,7,17),(3,22,53),(2,15,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,20),(3,22,53),(2,15,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,21),(1,7,17),(2,15,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,20),(1,8,21),(2,15,37)); lvl=5; h,r-ind=1,1
    [4,3]((1,8,13),(1,8,17),(1,7,15),(1,7,13)); lvl=2; h,r-ind=2,1
      [4,3]((1,8,17),(1,8,15),(1,7,14),(1,7,15)); lvl=3; h,r-ind=1,1
        [4,3]((1,8,15),(1,8,16),(1,7,14),(3,22,45)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,8,16),(3,22,45),(2,15,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,14),(3,22,45),(2,15,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,15),(1,8,16),(2,15,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,14),(1,8,15),(2,15,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,15),(1,7,14),(3,22,45)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,17),(1,7,15),(1,8,16),(3,22,45)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,7,15),(3,22,45),(2,15,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,16),(3,22,45),(2,15,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,17),(1,8,16),(2,15,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,17),(1,7,15),(2,15,31)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,13),(1,7,13),(1,8,15),(1,7,14)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,13),(3,22,41),(1,7,14)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,14),(1,8,15),(3,22,41),(1,7,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,8,15),(2,15,28),(1,7,14)); lvl=5; h,r-ind=1,1
          [3,3]((3,22,41),(2,15,28),(1,7,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,14),(3,22,41),(2,15,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,14),(1,8,15),(2,15,28)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,13),(1,8,14),(1,7,13),(3,22,41)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,22,41),(1,8,14),(2,15,27)); lvl=5; h,r-ind=1,1
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          [3,3]((1,8,13),(1,8,14),(2,15,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,13),(1,8,13),(2,15,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,13),(3,22,41),(2,15,27)); lvl=5; h,r-ind=1,1
[5,3]((1,8,21),(2,12,31),(1,5,12),(2,10,25),(2,13,30)); lvl=1; h,r-ind=1,1
  [4,3]((2,13,33),(2,12,31),(2,11,28),(1,7,18)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,28),(2,12,31),(3,18,46)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,18),(2,12,31),(3,18,46)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,33),(1,7,18),(3,18,46)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,33),(2,11,28),(3,18,46)); lvl=3; h,r-ind=1,1
  [4,3]((3,20,50),(2,13,33),(4,26,65),(1,7,18)); lvl=2; h,r-ind=1,1
    [3,3]((4,26,65),(2,13,33),(5,33,83)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,18),(2,13,33),(5,33,83)); lvl=3; h,r-ind=1,1
    [3,3]((3,20,50),(4,26,65),(5,33,83)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,18),(3,20,50),(5,33,83)); lvl=3; h,r-ind=1,1
  [4,3]((1,8,21),(1,7,17),(3,20,50),(1,7,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,7,17),(3,20,50),(2,14,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,18),(3,20,50),(2,14,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,21),(1,7,18),(2,14,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,21),(1,7,17),(2,14,35)); lvl=3; h,r-ind=1,1
  [4,3]((2,10,25),(2,13,33),(1,6,15),(2,11,28)); lvl=2; h,r-ind=1,1
    [3,3]((3,17,43),(2,13,33),(1,6,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,25),(3,17,43),(1,6,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,28),(3,17,43),(2,13,33)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,25),(2,11,28),(3,17,43)); lvl=3; h,r-ind=1,1
  [3,3]((2,10,25),(1,6,15),(1,5,12)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,14),(1,6,15),(3,19,47),(1,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,12,29),(1,6,15),(3,19,47)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,14),(2,12,29),(3,19,47)); lvl=3; h,r-ind=1,1
    [3,3]((2,12,29),(1,5,12),(1,6,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,14),(2,12,29),(1,5,12)); lvl=3; h,r-ind=1,1
  [4,3]((2,13,33),(1,6,15),(3,19,47),(4,26,65)); lvl=2; h,r-ind=1,1
    [3,3]((5,32,80),(3,19,47),(1,6,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,33),(5,32,80),(1,6,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,26,65),(5,32,80),(3,19,47)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,33),(4,26,65),(5,32,80)); lvl=3; h,r-ind=1,1
  [5,3]((1,7,17),(3,20,50),(1,6,14),(3,19,47),(4,26,65)); lvl=2; h,r-ind=1,1
    [3,3]((2,13,32),(3,19,47),(4,26,65)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,32),(3,20,50),(4,26,65)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,17),(2,13,32),(3,20,50)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,32),(1,6,14),(3,19,47)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,17),(2,13,32),(1,6,14)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,17),(1,6,14),(2,13,30)); lvl=2; h,r-ind=1,1
  [3,3]((1,8,21),(2,12,31),(1,7,18)); lvl=2; h,r-ind=1,1
[5,3]((1,5,10),(1,8,13),(2,13,26),(2,10,15),(2,16,21)); lvl=1; h,r-ind=3,1
  [5,3]((2,13,23),(4,26,43),(2,16,23),(1,8,13),(1,7,13)); lvl=2; h,r-ind=3,3; alert-r-inc
    [3,3]((2,13,22),(1,7,11),(4,26,43)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,22),(3,21,35),(1,7,11)); lvl=3; h,r-ind=2,2; optimized-h
    [4,3]((2,13,23),(2,13,22),(1,7,12),(3,21,35)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,12),(3,21,35),(3,20,34)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,22),(3,21,35),(3,20,34)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,23),(1,7,12),(3,20,34)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,22),(2,13,23),(3,20,34)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,23),(1,7,12),(1,7,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,21,35),(1,8,12),(1,7,11)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((2,16,23),(1,8,12),(1,7,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,12),(3,21,35),(1,8,12),(1,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,24),(1,8,12),(3,21,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(2,15,24),(3,21,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(1,8,13),(2,15,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,13),(2,15,24),(1,8,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,12),(1,7,13),(1,8,13)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,12),(2,13,23),(1,7,13)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
  [3,3]((1,6,12),(2,13,26),(1,7,13)); lvl=2; h,r-ind=1,1
  [5,3]((1,6,12),(1,5,10),(2,10,17),(2,13,23),(4,26,43)); lvl=2; h,r-ind=3,3; alert-r-inc
    [3,3]((1,5,9),(3,18,32),(1,6,10)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((2,13,22),(3,18,32),(1,6,10)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((2,13,22),(4,26,43),(1,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,17),(1,5,9),(1,6,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,10),(1,5,9),(1,6,11),(3,18,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,20),(1,6,11),(3,18,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,11,20),(3,18,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(2,11,20),(1,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(1,5,10),(2,11,20)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,23),(2,13,22),(1,6,11),(3,18,32)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,11),(3,19,33),(3,18,32)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,22),(3,19,33),(3,18,32)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,23),(2,13,22),(3,19,33)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,23),(1,6,11),(3,19,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,12),(2,13,23),(1,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,12),(1,5,10),(1,6,11)); lvl=3; h,r-ind=1,1
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[4,3]((4,26,43),(2,13,19),(2,16,23),(1,8,11)); lvl=2; h,r-ind=3,1
  [4,3]((2,14,21),(1,7,11),(2,16,23),(1,8,11)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((1,7,11),(2,15,22),(2,16,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,11),(2,15,22),(2,16,23)); lvl=4; h,r-ind=1,1
    [3,3]((2,14,21),(1,7,11),(2,15,22)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,11),(2,14,21),(2,15,22)); lvl=4; h,r-ind=1,1
  [3,3]((2,14,21),(1,7,10),(1,8,11)); lvl=3; h,r-ind=1,1
  [3,3]((4,27,42),(2,14,21),(1,7,11)); lvl=3; h,r-ind=1,1
  [4,3]((2,13,21),(5,33,52),(4,27,42),(1,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((4,27,42),(5,33,52),(6,40,63)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,21),(5,33,52),(6,40,63)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,11),(2,13,21),(6,40,63)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,11),(4,27,42),(6,40,63)); lvl=4; h,r-ind=1,1
  [3,3]((2,13,21),(4,26,43),(1,7,11)); lvl=3; h,r-ind=1,1
  [6,3]((5,33,52),(4,27,42),(2,14,21),(1,7,10),(2,13,19),(4,26,41)); lvl=3; h,r-ind=1,1
    [3,3]((3,20,31),(2,14,21),(4,27,42)); lvl=4; h,r-ind=1,1
    [3,3]((5,33,52),(3,20,31),(4,27,42)); lvl=4; h,r-ind=1,1
    [3,3]((5,33,52),(4,26,41),(3,20,31)); lvl=4; h,r-ind=1,1
    [3,3]((3,20,31),(4,27,41),(2,14,21)); lvl=4; h,r-ind=1,1
    [3,3]((4,27,41),(1,7,10),(2,14,21)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,20),(3,20,31),(4,27,41)); lvl=4; h,r-ind=1,1
    [3,3]((4,26,41),(2,13,20),(3,20,31)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,20),(4,27,41),(1,7,10),(2,13,19)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,20,30),(1,7,10),(4,27,41)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,20),(3,20,30),(4,27,41)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,19),(3,20,30),(1,7,10)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,20),(2,13,19),(3,20,30)); lvl=5; h,r-ind=1,1
  [3,3]((2,13,21),(5,33,52),(4,26,41)); lvl=3; h,r-ind=1,1
[4,3]((2,13,19),(2,13,18),(2,16,21),(1,8,11)); lvl=2; h,r-ind=3,1
  [4,3]((1,8,11),(1,7,10),(2,16,21),(4,29,39)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,10),(2,15,20),(4,30,41)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,11),(2,16,21),(2,15,20),(4,30,41)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,23,31),(2,15,20),(2,16,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,11),(3,23,31),(2,16,21)); lvl=5; h,r-ind=1,1
      [3,3]((3,23,31),(4,30,41),(2,15,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,11),(3,23,31),(4,30,41)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,11),(1,7,10),(4,30,41)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(4,29,39),(2,15,20)); lvl=4; h,r-ind=1,1
  [3,3]((1,7,10),(2,13,18),(4,29,39)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
  [3,3]((2,13,19),(1,7,10),(2,13,18)); lvl=3; h,r-ind=1,1
[4,3]((2,10,15),(1,5,8),(2,13,19),(2,13,18)); lvl=2; h,r-ind=3,1
  [4,3]((2,10,15),(4,23,33),(1,6,9),(1,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,16),(4,23,33),(1,6,9)); lvl=4; h,r-ind=1,1
    [3,3]((4,22,33),(2,11,16),(1,6,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(4,22,33),(1,6,9)); lvl=4; h,r-ind=1,1
    [4,3]((2,10,15),(1,5,8),(4,22,33),(2,11,16)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,8),(3,16,24),(4,22,33)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,16),(3,16,24),(4,22,33)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,15),(1,5,8),(3,16,24)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,16),(2,10,15),(3,16,24)); lvl=5; h,r-ind=1,1
  [3,3]((2,13,18),(4,23,33),(1,6,9)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
  [3,3]((2,13,18),(2,13,19),(1,6,9)); lvl=3; h,r-ind=1,1
[4,3]((2,10,17),(4,26,43),(1,5,8),(2,13,19)); lvl=2; h,r-ind=3,1
  [6,3]((2,12,19),(5,32,51),(4,25,40),(1,6,9),(2,13,19),(4,26,41)); lvl=3; h,r-ind=1,1
    [3,3]((3,19,30),(4,25,40),(5,32,51)); lvl=4; h,r-ind=1,1
    [3,3]((4,26,41),(3,19,30),(5,32,51)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,20),(4,26,41),(3,19,30)); lvl=4; h,r-ind=1,1
    [3,3]((4,25,39),(2,13,20),(3,19,30)); lvl=4; h,r-ind=1,1
    [4,3]((4,25,39),(1,6,9),(2,13,20),(2,13,19)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,19,29),(2,13,20),(2,13,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(3,19,29),(2,13,19)); lvl=5; h,r-ind=1,1
      [3,3]((4,25,39),(3,19,29),(2,13,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(4,25,39),(3,19,29)); lvl=5; h,r-ind=1,1
    [3,3]((2,12,19),(3,19,30),(4,25,40)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,19),(4,25,39),(3,19,30)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,19),(4,25,39),(1,6,9)); lvl=4; h,r-ind=1,1
  [3,3]((5,32,51),(2,13,21),(4,26,41)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,8),(2,12,19),(1,6,9)); lvl=3; h,r-ind=1,1
  [3,3]((2,12,19),(4,25,40),(1,6,10)); lvl=3; h,r-ind=1,1
  [4,3]((5,32,51),(4,25,40),(2,13,21),(1,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((6,38,61),(1,6,10),(4,25,40)); lvl=4; h,r-ind=1,1
    [3,3]((5,32,51),(6,38,61),(4,25,40)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,21),(5,32,51),(6,38,61)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,21),(6,38,61),(1,6,10)); lvl=4; h,r-ind=1,1
  [3,3]((4,26,43),(2,13,21),(1,6,10)); lvl=3; h,r-ind=1,1
  [4,3]((2,10,17),(1,5,8),(2,12,19),(1,6,10)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((2,11,18),(1,5,8),(2,12,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,18),(1,6,10),(2,12,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,17),(2,11,18),(1,6,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,17),(2,11,18),(1,5,8)); lvl=4; h,r-ind=1,1
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[3,3]((0,1,0),(1,8,13),(2,16,21)); lvl=1; h,r-ind=5,5; optimized-h
[3,3]((1,8,21),(0,1,0),(1,8,13)); lvl=1; h,r-ind=8,8; optimized-h
[5,3]((1,5,10),(1,4,9),(2,10,15),(1,3,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,7),(1,1,2),(1,0,0)); lvl=2; h,r-ind=1,1
  [4,3]((2,6,9),(1,3,5),(1,1,2),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,3,5),(3,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,5),(3,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(1,2,3),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,3),(1,1,2),(3,6,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,5),(1,2,3),(3,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,5),(3,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(2,3,5),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,0,0),(2,3,5)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,6),(2,6,9),(1,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,7),(4,13,29),(1,1,2),(2,5,10)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [3,3]((1,2,4),(2,6,13),(2,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(5,14,31),(2,6,13)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [4,3]((1,3,7),(5,14,31),(4,13,29),(2,6,13)); lvl=3; h,r-ind=1,3
      [3,3]((5,14,31),(3,9,20),(2,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,29),(3,9,20),(2,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(5,14,31),(3,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,29),(1,3,7),(3,9,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,7),(1,1,2),(1,2,4),(5,14,31)); lvl=3; h,r-ind=1,3
      [3,3]((2,5,11),(1,1,2),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((5,14,31),(2,5,11),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(5,14,31),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,11),(1,1,2)); lvl=4; h,r-ind=1,1
  [4,3]((4,13,23),(1,3,5),(1,1,2),(2,5,10)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((1,2,4),(5,14,25),(1,3,5),(1,1,2)); lvl=3; h,r-ind=1,3
      [3,3]((2,5,9),(5,14,25),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,5,9),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,1,2),(2,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(5,14,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,11),(1,2,4),(5,14,25)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((2,6,11),(2,5,10),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((4,13,23),(2,6,11),(5,14,25),(1,3,5)); lvl=3; h,r-ind=1,3
      [3,3]((2,6,11),(5,14,25),(3,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(5,14,25),(3,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,23),(2,6,11),(3,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(4,13,23),(3,9,16)); lvl=4; h,r-ind=1,1
  [5,3]((1,4,6),(1,5,8),(4,13,23),(1,3,5),(1,4,7)); lvl=2; h,r-ind=1,1
    [5,3]((1,4,6),(1,5,8),(3,11,18),(3,12,20),(4,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,13),(4,15,25),(3,12,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,8,13),(3,12,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,13),(3,11,18),(4,15,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,8,13),(3,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(1,4,6),(2,8,13)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,12),(1,4,7),(3,12,20),(4,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((5,19,32),(3,12,20),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,12),(5,19,32),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((4,15,25),(5,19,32),(3,12,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,12),(4,15,25),(5,19,32)); lvl=4; h,r-ind=1,1
    [3,3]((4,13,23),(2,7,12),(1,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,5),(2,7,12),(3,11,18),(4,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,12),(4,15,25),(5,18,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,18),(4,15,25),(5,18,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,12),(5,18,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,18),(1,3,5),(5,18,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(1,3,5),(3,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(4,13,23),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(1,5,8),(3,12,20)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,8),(2,10,17),(1,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,10,15),(1,4,6),(1,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,9),(1,3,7),(4,13,29)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,9),(4,13,29),(2,5,10),(1,4,8)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [3,3]((1,3,6),(2,6,13),(5,17,37)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [4,3]((1,4,9),(4,13,29),(2,6,13),(5,17,37)); lvl=3; h,r-ind=1,3
      [3,3]((3,10,22),(2,6,13),(4,13,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(3,10,22),(4,13,29)); lvl=4; h,r-ind=1,1
      [3,3]((5,17,37),(3,10,22),(2,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(5,17,37),(3,10,22)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,9),(1,4,8),(1,3,6),(5,17,37)); lvl=3; h,r-ind=1,3
      [3,3]((2,7,15),(1,4,8),(1,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((5,17,37),(2,7,15),(1,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(5,17,37),(2,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(2,7,15),(1,4,8)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,10),(1,3,6),(2,6,13)); lvl=3; h,r-ind=1,1
  [4,3]((4,13,23),(1,4,7),(2,5,10),(1,4,8)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((1,3,6),(5,17,31),(1,4,7),(1,4,8)); lvl=3; h,r-ind=1,3
      [3,3]((2,7,13),(1,4,7),(5,17,31)); lvl=4; h,r-ind=1,1
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      [3,3]((1,3,6),(2,7,13),(5,17,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(2,7,13),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,8),(2,7,13)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,11),(1,3,6),(5,17,31)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((2,6,11),(2,5,10),(1,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((4,13,23),(2,6,11),(5,17,31),(1,4,7)); lvl=3; h,r-ind=1,3
      [3,3]((3,10,18),(2,6,11),(5,17,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,10,18),(5,17,31)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,23),(3,10,18),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(4,13,23),(3,10,18)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,10),(2,10,17),(1,4,7),(1,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,7),(1,5,9),(2,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(1,5,9),(3,13,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(1,4,7),(3,13,24)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,8),(1,5,10),(1,5,9),(3,13,24)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,10),(2,9,17),(1,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,24),(2,9,17),(1,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(3,13,24),(2,9,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,10),(2,9,17)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,9),(1,5,10),(1,4,8)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(2,10,15),(2,16,21),(1,0,0)); lvl=1; h,r-ind=3,3
  [4,3]((1,4,6),(2,13,17),(2,10,15),(2,13,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,8),(2,13,18),(2,13,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,8),(2,11,15),(4,23,33),(2,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,17),(3,17,24),(4,23,33)); lvl=4; h,r-ind=1,1
      [4,3]((7,41,57),(4,23,32),(2,12,17),(3,17,24)); lvl=4; h,r-ind=1,1
        [3,3]((6,35,49),(4,23,32),(3,17,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,17),(6,35,49),(3,17,24)); lvl=5; h,r-ind=1,1
        [3,3]((7,41,57),(2,12,17),(6,35,49)); lvl=5; h,r-ind=1,1
        [3,3]((7,41,57),(6,35,49),(4,23,32)); lvl=5; h,r-ind=1,1
      [3,3]((4,23,32),(2,11,15),(3,17,24)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,8),(7,41,57),(4,23,32),(2,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((7,41,57),(5,29,40),(4,23,32)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,15),(5,29,40),(4,23,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(2,11,15),(5,29,40)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(7,41,57),(5,29,40)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,8),(7,41,57),(2,13,18),(2,12,17)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((7,41,57),(3,18,25),(2,12,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,18),(3,18,25),(2,12,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(2,13,18),(3,18,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(7,41,57),(3,18,25)); lvl=5; h,r-ind=1,1
    [4,3]((2,11,15),(1,4,6),(2,10,15),(4,23,33)); lvl=3; h,r-ind=3,1; alert-h-inc
      [4,3]((1,5,7),(1,4,6),(2,11,16),(2,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(2,10,15),(3,15,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,16),(2,10,15),(3,15,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(1,4,6),(3,15,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,16),(1,5,7),(3,15,22)); lvl=5; h,r-ind=1,1
      [3,3]((3,17,24),(1,5,7),(2,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,24),(4,23,33),(2,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,15),(3,17,24),(1,5,7)); lvl=4; h,r-ind=1,1
  [4,3]((2,13,17),(2,16,21),(1,8,10),(2,13,18)); lvl=2; h,r-ind=3,1
    [4,3]((1,7,9),(1,8,10),(2,16,21),(4,29,39)); lvl=3; h,r-ind=1,1
      [4,3]((2,15,20),(1,8,10),(2,16,21),(4,30,39)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,8,10),(2,16,21),(3,23,30)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,20),(2,16,21),(3,23,30)); lvl=5; h,r-ind=1,1
        [3,3]((4,30,39),(1,8,10),(3,23,30)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,20),(4,30,39),(3,23,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(2,15,20),(4,30,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(2,15,20),(4,29,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(1,8,10),(4,30,39)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,18),(1,7,9),(4,29,39)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((2,13,18),(2,13,17),(1,7,9)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,16,21),(1,8,10)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,13,17),(2,11,11),(1,8,10)); lvl=2; h,r-ind=3,3
    [3,3]((1,7,9),(1,6,7),(2,13,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,9),(1,6,7),(1,7,8),(2,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(2,13,14),(2,13,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(2,13,14),(2,13,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(1,7,8),(2,13,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(1,6,7),(2,13,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,6),(4,26,27),(1,6,7),(2,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,26,27),(3,19,20),(2,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(3,19,20),(2,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(1,6,7),(3,19,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(4,26,27),(3,19,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,11),(1,6,6),(1,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,11,11),(1,6,6)); lvl=3; h,r-ind=1,1
    [5,3]((0,1,0),(1,8,10),(1,7,9),(2,15,15),(1,7,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,8),(2,16,17),(2,15,17),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,17),(2,15,17),(3,23,25)); lvl=5; h,r-ind=1,1
```

```
        [3,3]((1,7,8),(2,15,17),(3,23,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,8),(2,16,17),(3,23,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(1,8,8),(3,23,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,15),(1,8,8),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,15,15),(1,8,8)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,8),(2,16,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(2,15,17),(1,7,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,9),(2,16,17),(2,15,17),(1,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,17),(2,16,17),(3,23,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(2,16,17),(3,23,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(1,8,9),(3,23,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(2,15,17),(3,23,26)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(2,16,17),(1,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,10),(1,7,9),(1,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,10),(1,8,9)); lvl=4; h,r-ind=1,1
    [5,3]((1,7,7),(2,15,15),(4,26,27),(1,7,8),(2,13,14)); lvl=3; h,r-ind=1,1
      [4,3]((3,20,21),(2,13,14),(4,27,29),(5,34,36)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,14),(4,27,29),(7,47,50)); lvl=5; h,r-ind=1,1
        [3,3]((5,34,36),(4,27,29),(7,47,50)); lvl=5; h,r-ind=1,1
        [3,3]((3,20,21),(2,13,14),(7,47,50)); lvl=5; h,r-ind=1,1
        [3,3]((5,34,36),(3,20,21),(7,47,50)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,8),(3,21,22),(4,27,29),(5,34,36)); lvl=4; h,r-ind=1,1
        [4,3]((2,14,15),(11,75,80),(3,21,22),(5,34,36)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,34,36),(7,48,51),(11,75,80)); lvl=6; h,r-ind=1,1
          [3,3]((2,14,15),(7,48,51),(11,75,80)); lvl=6; h,r-ind=1,1
          [3,3]((3,21,22),(5,34,36),(7,48,51)); lvl=6; h,r-ind=1,1
          [3,3]((2,14,15),(3,21,22),(7,48,51)); lvl=6; h,r-ind=1,1
        [3,3]((4,27,29),(11,75,80),(5,34,36)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,8),(2,14,15),(4,27,29),(11,75,80)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,14,15),(11,75,80),(6,41,44)); lvl=6; h,r-ind=1,1
          [3,3]((4,27,29),(11,75,80),(6,41,44)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,8),(4,27,29),(6,41,44)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,8),(2,14,15),(6,41,44)); lvl=6; h,r-ind=1,1
      [3,3]((2,15,15),(1,7,8),(3,21,22)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,7,7),(3,21,22),(3,20,21),(5,34,36)); lvl=4; h,r-ind=1,1
        [3,3]((3,21,22),(5,34,36),(6,41,43)); lvl=5; h,r-ind=1,1
        [3,3]((3,20,21),(5,34,36),(6,41,43)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,7),(3,20,21),(6,41,43)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,7),(3,21,22),(6,41,43)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,15),(1,7,7),(3,21,22)); lvl=4; h,r-ind=1,1
      [3,3]((4,26,27),(3,20,21),(2,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,7),(4,26,27),(3,20,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(2,13,14),(4,27,29)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(1,6,6),(1,7,7),(4,26,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(2,13,13),(4,26,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,7),(2,13,13),(4,26,27)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(2,13,13)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(2,13,13)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,7,7),(2,15,15)); lvl=3; h,r-ind=1,1
  [5,3]((1,4,6),(2,6,9),(2,13,17),(2,11,11),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(1,3,3),(1,3,4),(2,9,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,4),(1,3,4),(1,4,5),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(1,3,4),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,3,4),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(1,4,5),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,4,4),(2,7,8)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,4),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,9,9),(1,4,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(1,5,5),(2,9,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,7),(1,5,6),(1,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,7),(2,11,11),(1,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(1,6,7),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(2,13,17),(1,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,8,11),(2,10,13),(1,5,6),(1,3,4)); lvl=3; h,r-ind=2,1; alert-h-inc
      [4,3]((2,9,12),(1,4,5),(1,5,6),(2,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,18),(1,5,6),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,12),(3,14,18),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,18),(2,10,13),(1,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,12),(3,14,18),(2,10,13)); lvl=5; h,r-ind=1,1
      [4,3]((2,8,11),(2,9,12),(1,3,4),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((3,12,16),(1,4,5),(2,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,11),(3,12,16),(2,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(2,8,11),(3,12,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(3,12,16),(1,4,5)); lvl=5; h,r-ind=1,1
    [4,3]((1,4,6),(2,6,9),(2,8,11),(1,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,6,9),(2,7,10),(1,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,11),(2,7,10),(1,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,6,9),(2,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,11),(1,4,6),(2,7,10)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,6),(2,8,11),(2,11,15),(2,10,13)); lvl=3; h,r-ind=1,1
```

```
        [3,3]((1,5,7),(2,9,12),(2,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(2,11,15),(2,10,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,6),(1,5,7),(2,8,11),(2,9,12)); lvl=4; h,r-ind=1,1
          [3,3]((1,5,7),(2,9,12),(3,13,18)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,11),(2,9,12),(3,13,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(2,8,11),(3,13,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(1,5,7),(3,13,18)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,8),(2,11,15),(2,10,13),(1,5,6)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,15),(2,10,13),(3,16,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,10,13),(3,16,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(2,11,15),(3,16,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(1,6,8),(3,16,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(2,6,9),(1,3,3)); lvl=2; h,r-ind=9,3; alert-h-inc; optimized-h
    [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((0,1,0),(2,11,11),(1,3,3)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,5,13),(1,0,0),(2,7,18)); lvl=1; h,r-ind=1,1
  [3,3]((1,8,21),(1,5,13),(1,0,0)); lvl=1; h,r-ind=1,1
```

21.17 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,9,21)); lvl=0; h,r-ind=21,147
  [4,3]((1,0,0),(2,6,9),(2,18,21),(0,1,0)); lvl=1; h,r-ind=3,3
    [4,3]((2,18,21),(2,12,15),(1,6,7),(1,9,10)); lvl=2; h,r-ind=3,1
      [4,3]((2,15,18),(2,15,17),(2,12,15),(1,6,7)); lvl=3; h,r-ind=3,1
        [4,3]((1,7,8),(2,12,15),(4,27,33),(1,6,7)); lvl=4; h,r-ind=1,1
          [4,3]((1,6,7),(2,13,16),(2,12,15),(4,26,31)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,19,23),(2,12,15),(2,13,16)); lvl=6; h,r-ind=1,1
            [3,3]((4,26,31),(3,19,23),(2,13,16)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,7),(4,26,31),(3,19,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,7),(3,19,23),(2,12,15)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,8),(1,6,7),(4,26,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(2,13,16),(4,26,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(2,13,16),(4,27,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,18),(1,7,8),(4,27,33)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
        [3,3]((2,15,18),(2,15,17),(1,7,8)); lvl=4; h,r-ind=1,1
      [4,3]((2,18,21),(2,15,18),(1,9,10),(2,15,17)); lvl=3; h,r-ind=3,1
        [3,3]((1,8,9),(2,15,18),(2,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((4,33,39),(1,8,9),(2,15,18)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
        [4,3]((2,18,21),(4,33,39),(1,9,10),(1,8,9)); lvl=4; h,r-ind=1,1
          [3,3]((2,17,20),(1,8,9),(4,34,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,10),(1,8,9),(4,34,39)); lvl=5; h,r-ind=1,1
          [4,3]((1,9,10),(2,18,21),(2,17,20),(4,34,39)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,18,21),(3,26,30),(2,17,20)); lvl=6; h,r-ind=1,1
            [3,3]((4,34,39),(3,26,30),(2,17,20)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,10),(4,34,39),(3,26,30)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,10),(2,18,21),(3,26,30)); lvl=6; h,r-ind=1,1
          [3,3]((2,17,20),(4,33,39),(1,8,9)); lvl=5; h,r-ind=1,1
    [4,3]((0,1,0),(2,11,11),(1,6,7),(1,9,10)); lvl=2; h,r-ind=3,3
      [4,3]((2,15,15),(1,6,6),(1,6,7),(2,15,17)); lvl=3; h,r-ind=3,1
        [4,3]((1,7,7),(1,6,6),(1,7,8),(1,6,7)); lvl=4; h,r-ind=1,1
          [3,3]((1,6,6),(1,6,7),(2,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(1,6,7),(2,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(1,7,8),(2,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(1,6,6),(2,13,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,16),(1,7,7),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,16),(2,15,17),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,15),(2,15,16),(1,7,7)); lvl=4; h,r-ind=1,1
      [4,3]((0,1,0),(1,9,10),(2,15,15),(2,15,17)); lvl=3; h,r-ind=1,1
        [3,3]((1,8,9),(1,8,8),(2,17,17)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,8,8),(2,17,17)); lvl=4; h,r-ind=1,1
        [4,3]((0,1,0),(1,9,10),(1,8,9),(2,17,17)); lvl=4; h,r-ind=1,1
          [3,3]((1,9,9),(1,9,10),(1,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,17),(1,9,9),(1,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(2,17,17),(1,9,9)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(1,9,9),(1,9,10)); lvl=5; h,r-ind=1,1
        [4,3]((2,15,16),(1,8,9),(2,15,17),(1,8,8)); lvl=4; h,r-ind=1,1
          [3,3]((3,23,25),(1,8,9),(2,15,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,16),(3,23,25),(2,15,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,8),(2,15,16),(3,23,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,8),(3,23,25),(1,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,15),(2,15,16),(1,8,8)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,15,15),(1,8,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(2,11,11),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(2,11,11)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,15,15),(1,6,6)); lvl=3; h,r-ind=3,3; optimized-h
    [4,3]((1,2,3),(1,2,2),(2,11,11),(1,6,7)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,5),(1,6,7),(1,4,4),(1,5,5)); lvl=3; h,r-ind=1,1
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      [4,3]((1,6,7),(1,5,6),(1,5,5),(3,14,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,6),(3,14,15),(2,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,5),(3,14,15),(2,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(1,5,5),(2,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(1,5,6),(2,10,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,4),(1,5,5),(3,14,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,5),(1,4,4),(1,5,6),(3,14,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,4),(3,14,15),(2,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(3,14,15),(2,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(1,4,4),(2,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(1,4,5),(2,9,10)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,7),(2,11,11),(1,5,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(1,4,5),(1,2,2),(1,4,4)); lvl=3; h,r-ind=2,1; alert-h-inc
      [4,3]((1,4,5),(1,3,4),(1,4,4),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,3,3),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(1,3,3),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(1,4,4),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(1,3,4),(2,7,8)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,3),(1,2,2),(1,3,4),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,3,3),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,3),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(1,2,2),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(2,5,6)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,11,11)); lvl=2; h,r-ind=7,7; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(2,18,21),(1,9,10)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(2,6,9),(2,12,15),(1,6,7)); lvl=2; h,r-ind=2,1
    [4,3]((1,6,7),(1,4,5),(2,12,15),(2,9,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,6),(4,21,27),(1,4,5),(2,9,12)); lvl=4; h,r-ind=1,1
        [4,3]((4,19,24),(1,4,5),(2,10,13),(2,9,12)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,18),(2,9,12),(1,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((4,19,24),(3,14,18),(1,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((3,14,18),(2,10,13),(2,9,12)); lvl=6; h,r-ind=1,1
          [3,3]((4,19,24),(3,14,18),(2,10,13)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,6),(4,19,24),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(4,19,24),(2,10,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(2,10,13),(4,21,27)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,7),(1,5,6),(2,12,15),(4,21,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,11,14),(4,21,27)); lvl=5; h,r-ind=1,1
        [3,3]((4,22,27),(1,5,6),(2,11,14)); lvl=5; h,r-ind=1,1
        [4,3]((1,6,7),(2,12,15),(4,22,27),(2,11,14)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,17,21),(4,22,27),(2,11,14)); lvl=6; h,r-ind=1,1
          [3,3]((2,12,15),(3,17,21),(2,11,14)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,7),(2,12,15),(3,17,21)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,7),(3,17,21),(4,22,27)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(4,22,27),(1,5,6)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,3),(1,4,5),(2,6,9),(2,9,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,5),(1,3,4),(2,9,12),(4,15,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,8,11),(4,15,21)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,20),(1,3,4),(2,8,11)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,5),(4,15,20),(2,9,12),(2,8,11)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,15,20),(3,12,16),(2,8,11)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,12),(3,12,16),(2,8,11)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(2,9,12),(3,12,16)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(4,15,20),(3,12,16)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(4,15,20),(1,3,4)); lvl=5; h,r-ind=1,1
      [4,3]((2,6,9),(1,2,3),(1,3,4),(4,15,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,12,17),(1,3,4),(1,2,3)); lvl=5; h,r-ind=1,1
        [4,3]((2,6,9),(4,12,17),(2,7,10),(1,2,3)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,9,13),(4,12,17),(2,7,10)); lvl=6; h,r-ind=1,1
          [3,3]((2,6,9),(3,9,13),(2,7,10)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(2,6,9),(3,9,13)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(3,9,13),(4,12,17)); lvl=6; h,r-ind=1,1
        [3,3]((4,12,17),(2,7,10),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,21),(2,7,10),(1,3,4)); lvl=5; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,2,2)); lvl=2; h,r-ind=2,2; optimized-h
[3,3]((1,9,12),(2,18,21),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((1,9,21),(1,9,12),(0,1,0)); lvl=1; h,r-ind=9,9; optimized-h
[5,3]((1,9,12),(1,6,12),(1,3,6),(2,6,9),(2,18,21)); lvl=1; h,r-ind=9,3
  [4,3]((2,12,19),(2,11,18),(1,6,9),(1,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,8),(2,11,18),(3,17,27)); lvl=3; h,r-ind=1,1
    [3,3]((2,12,19),(2,11,18),(3,17,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,9),(2,12,19),(3,17,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,9),(1,5,8),(3,17,27)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,8),(1,3,5),(1,6,9),(1,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(2,9,13),(1,5,8),(4,21,32)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,5,8),(5,24,37),(4,21,32),(2,10,15)); lvl=4; h,r-ind=1,3
        [3,3]((5,24,37),(3,15,23),(2,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,32),(3,15,23),(2,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(4,21,32),(3,15,23)); lvl=5; h,r-ind=1,1
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      [3,3]((1,5,8),(5,24,37),(3,15,23)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,6),(5,24,37),(2,10,15)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,4,6),(2,9,13),(2,10,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,8),(1,3,5),(1,4,6),(5,24,37)); lvl=4; h,r-ind=1,3
      [3,3]((2,9,14),(1,4,6),(1,3,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(2,9,14),(1,3,5)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,14),(5,24,37),(1,4,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(2,9,14),(5,24,37)); lvl=5; h,r-ind=1,1
  [3,3]((1,6,9),(1,5,8),(4,21,32)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,8),(1,6,9),(2,9,13),(4,21,32)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((5,27,40),(2,10,15),(4,21,32),(1,6,9)); lvl=4; h,r-ind=1,3
      [3,3]((2,10,15),(4,21,32),(3,16,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(4,21,32),(3,16,24)); lvl=5; h,r-ind=1,1
      [3,3]((5,27,40),(2,10,15),(3,16,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(5,27,40),(3,16,24)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,8),(1,5,7),(5,27,40),(1,6,9)); lvl=4; h,r-ind=1,3
      [3,3]((2,11,16),(1,5,7),(5,27,40)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(2,11,16),(5,27,40)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,16),(1,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(1,6,8),(2,11,16)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,7),(5,27,40),(2,10,15)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,5,7),(2,10,15),(2,9,13)); lvl=4; h,r-ind=1,1
[4,3]((1,9,11),(1,7,10),(1,6,8),(1,6,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,8),(2,15,19),(1,6,9),(4,27,38)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((1,6,9),(5,33,46),(4,27,38),(2,14,19)); lvl=4; h,r-ind=1,3
      [3,3]((3,20,28),(2,14,19),(5,33,46)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(3,20,28),(5,33,46)); lvl=5; h,r-ind=1,1
      [3,3]((4,27,38),(3,20,28),(2,14,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(4,27,38),(3,20,28)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,9),(5,33,46),(2,14,19)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,7,9),(2,15,19),(2,14,19)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,8),(1,7,9),(1,6,9),(5,33,46)); lvl=4; h,r-ind=1,3
      [3,3]((1,7,9),(5,33,46),(2,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(5,33,46),(2,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(1,7,9),(2,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(1,6,8),(2,13,18)); lvl=5; h,r-ind=1,1
  [3,3]((1,7,10),(1,6,9),(4,27,38)); lvl=3; h,r-ind=1,1
  [4,3]((1,9,11),(1,7,10),(2,15,19),(4,27,38)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((2,14,19),(5,36,49),(1,7,10),(4,27,38)); lvl=4; h,r-ind=1,3
      [3,3]((3,21,29),(1,7,10),(5,36,49)); lvl=5; h,r-ind=1,1
      [3,3]((2,14,19),(3,21,29),(5,36,49)); lvl=5; h,r-ind=1,1
      [3,3]((4,27,38),(3,21,29),(1,7,10)); lvl=5; h,r-ind=1,1
      [3,3]((2,14,19),(4,27,38),(3,21,29)); lvl=5; h,r-ind=1,1
    [3,3]((2,14,19),(1,8,10),(5,36,49)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((2,15,19),(2,14,19),(1,8,10)); lvl=4; h,r-ind=1,1
    [4,3]((1,9,11),(1,8,10),(5,36,49),(1,7,10)); lvl=4; h,r-ind=1,3
      [3,3]((2,15,20),(1,8,10),(5,36,49)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,10),(2,15,20),(5,36,49)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,11),(2,15,20),(1,8,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,10),(1,9,11),(2,15,20)); lvl=5; h,r-ind=1,1
[4,3]((1,6,8),(2,12,15),(1,3,5),(2,6,9)); lvl=2; h,r-ind=3,1
  [4,3]((2,9,13),(1,3,5),(2,6,9),(2,9,12)); lvl=3; h,r-ind=3,1
    [4,3]((1,4,6),(1,3,5),(2,6,9),(4,15,21)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,10),(1,3,5),(2,6,9),(4,14,21)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,15),(2,6,9),(1,3,5)); lvl=6; h,r-ind=1,1
        [3,3]((4,14,21),(3,10,15),(1,3,5)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,10),(4,14,21),(3,10,15)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,10),(3,10,15),(2,6,9)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,10),(4,14,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,10),(4,15,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(1,3,5),(4,14,21)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,12),(1,4,6),(4,15,21)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((2,9,12),(2,9,13),(1,4,6)); lvl=4; h,r-ind=1,1
  [4,3]((2,12,15),(1,6,8),(2,9,13),(2,9,12)); lvl=3; h,r-ind=3,1
    [4,3]((2,12,15),(4,21,27),(1,5,7),(1,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,14),(4,21,27)); lvl=5; h,r-ind=1,1
      [3,3]((4,22,29),(1,5,7),(2,11,14)); lvl=5; h,r-ind=1,1
      [4,3]((2,12,15),(4,22,29),(1,6,8),(2,11,14)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,22),(4,22,29),(1,6,8)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,15),(3,17,22),(1,6,8)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,14),(2,12,15),(3,17,22)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,14),(3,17,22),(4,22,29)); lvl=6; h,r-ind=1,1
      [3,3]((4,22,29),(1,6,8),(1,5,7)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,12),(4,21,27),(1,5,7)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((2,9,12),(2,9,13),(1,5,7)); lvl=4; h,r-ind=1,1
[4,3]((1,9,11),(2,18,21),(1,6,8),(2,12,15)); lvl=2; h,r-ind=3,1
  [4,3]((2,15,19),(1,6,8),(2,12,15),(2,15,18)); lvl=3; h,r-ind=3,1
    [4,3]((1,7,9),(1,6,8),(2,12,15),(4,27,33)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,16),(1,6,8),(2,12,15),(4,26,33)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((1,6,8),(3,19,24),(2,12,15)); lvl=6; h,r-ind=1,1
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          [3,3]((2,13,16),(3,19,24),(2,12,15)); lvl=6; h,r-ind=1,1
          [3,3]((4,26,33),(1,6,8),(3,19,24)); lvl=6; h,r-ind=1,1
          [3,3]((2,13,16),(4,26,33),(3,19,24)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,9),(2,13,16),(4,26,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(2,13,16),(4,27,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(1,6,8),(4,26,33)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,18),(1,7,9),(4,27,33)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((2,15,18),(2,15,19),(1,7,9)); lvl=4; h,r-ind=1,1
    [4,3]((2,18,21),(1,9,11),(2,15,19),(2,15,18)); lvl=3; h,r-ind=3,1
      [4,3]((2,18,21),(4,33,39),(1,8,10),(1,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,10),(2,17,20),(4,33,39)); lvl=5; h,r-ind=1,1
        [3,3]((4,34,41),(1,8,10),(2,17,20)); lvl=5; h,r-ind=1,1
        [4,3]((2,18,21),(4,34,41),(1,9,11),(2,17,20)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,26,31),(1,9,11),(4,34,41)); lvl=6; h,r-ind=1,1
          [3,3]((2,17,20),(3,26,31),(4,34,41)); lvl=6; h,r-ind=1,1
          [3,3]((2,18,21),(3,26,31),(1,9,11)); lvl=6; h,r-ind=1,1
          [3,3]((2,17,20),(2,18,21),(3,26,31)); lvl=6; h,r-ind=1,1
        [3,3]((4,34,41),(1,9,11),(1,8,10)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,18),(4,33,39),(1,8,10)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((2,15,18),(2,15,19),(1,8,10)); lvl=4; h,r-ind=1,1
[5,3]((1,3,5),(1,3,6),(2,9,18),(2,11,18),(1,5,8)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,8),(1,4,7),(3,13,23),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,23),(2,8,15),(1,4,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(2,8,15),(1,4,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(1,3,6),(2,8,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(3,13,23),(2,8,15)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,5),(1,4,7),(1,3,6)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,8),(1,4,7),(3,13,23),(3,14,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(3,13,23),(4,18,31)); lvl=4; h,r-ind=1,1
    [3,3]((3,14,24),(3,13,23),(4,18,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(3,14,24),(4,18,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(1,4,7),(4,18,31)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,5),(1,5,8),(1,4,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,9),(1,4,8),(3,13,23)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,5,9),(2,9,18),(1,4,8)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,9),(3,13,23),(2,10,17),(3,14,24)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,16),(7,33,57),(3,13,23),(3,14,24)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((5,23,40),(3,14,24),(7,33,57)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,16),(5,23,40),(7,33,57)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,23),(5,23,40),(3,14,24)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,16),(3,13,23),(5,23,40)); lvl=5; h,r-ind=1,1
    [3,3]((2,10,17),(7,33,57),(3,14,24)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,9),(2,9,16),(2,10,17),(7,33,57)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,16),(4,19,33),(7,33,57)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,17),(4,19,33),(7,33,57)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,9),(2,10,17),(4,19,33)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,9),(2,9,16),(4,19,33)); lvl=5; h,r-ind=1,1
  [4,3]((1,5,8),(2,10,17),(3,14,24),(2,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,24),(3,15,25),(2,10,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,18),(3,15,25),(2,10,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(2,11,18),(3,15,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(3,14,24),(3,15,25)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,9),(2,10,17),(2,11,18)); lvl=3; h,r-ind=1,1
[4,3]((2,13,20),(1,7,10),(2,12,19),(1,6,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,9),(2,12,19),(3,19,29)); lvl=3; h,r-ind=1,1
  [3,3]((2,13,20),(2,12,19),(3,19,29)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,10),(2,13,20),(3,19,29)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,10),(1,6,9),(3,19,29)); lvl=3; h,r-ind=1,1
[5,3]((1,9,11),(1,9,12),(2,15,24),(2,13,20),(1,7,10)); lvl=2; h,r-ind=1,1
  [4,3]((1,8,12),(1,8,11),(3,23,33),(1,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,16,23),(1,8,11),(3,23,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,12),(2,16,23),(3,23,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,12),(2,16,23),(1,8,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,12),(1,9,12),(2,16,23)); lvl=4; h,r-ind=1,1
  [3,3]((1,7,11),(1,8,12),(3,23,33)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,15,24),(1,7,11),(1,8,12)); lvl=3; h,r-ind=1,1
  [3,3]((1,9,11),(1,8,11),(1,9,12)); lvl=3; h,r-ind=1,1
  [4,3]((1,7,10),(1,8,11),(3,22,32),(3,23,33)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,11),(3,23,33),(4,30,43)); lvl=4; h,r-ind=1,1
    [3,3]((3,22,32),(3,23,33),(4,30,43)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(1,8,11),(4,30,43)); lvl=4; h,r-ind=1,1
    [3,3]((3,22,32),(1,7,10),(4,30,43)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,11),(2,14,21),(3,22,32),(3,23,33)); lvl=3; h,r-ind=1,1
    [3,3]((2,14,21),(3,22,32),(7,51,75)); lvl=4; h,r-ind=1,1
    [4,3]((3,23,33),(2,15,22),(3,22,32),(7,51,75)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,15,22),(7,51,75),(5,37,54)); lvl=5; h,r-ind=1,1
      [3,3]((3,22,32),(7,51,75),(5,37,54)); lvl=5; h,r-ind=1,1
      [3,3]((3,23,33),(3,22,32),(5,37,54)); lvl=5; h,r-ind=1,1
      [3,3]((3,23,33),(2,15,22),(5,37,54)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,11),(2,15,22),(2,14,21),(7,51,75)); lvl=4; h,r-ind=1,2; alert-r-inc
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          [3,3]((2,15,22),(7,51,75),(4,29,43)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,21),(7,51,75),(4,29,43)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,11),(2,15,22),(4,29,43)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,21),(1,7,11),(4,29,43)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,10),(2,13,20),(2,14,21),(3,22,32)); lvl=3; h,r-ind=1,1
        [3,3]((2,13,20),(3,21,31),(2,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,22,32),(3,21,31),(2,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,10),(3,22,32),(3,21,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,10),(2,13,20),(3,21,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(2,13,20),(2,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,11),(1,7,10),(1,8,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,12),(2,9,18),(2,12,19),(2,11,18)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,10),(2,12,19),(1,5,9),(2,11,18)); lvl=3; h,r-ind=1,1
        [3,3]((2,12,19),(2,11,18),(3,17,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(2,11,18),(3,17,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(2,12,19),(3,17,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(1,6,10),(3,17,28)); lvl=4; h,r-ind=1,1
      [4,3]((2,12,21),(2,11,20),(1,6,10),(1,5,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,9),(2,11,20),(3,17,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,21),(2,11,20),(3,17,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(2,12,21),(3,17,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(1,5,9),(3,17,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,20),(1,5,10),(1,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,10),(2,9,18),(1,5,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,12),(2,12,21),(2,11,20),(1,5,10)); lvl=3; h,r-ind=1,1
        [4,3]((1,6,11),(4,22,41),(2,11,20),(2,12,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,22,41),(3,17,31),(2,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,21),(3,17,31),(2,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(2,12,21),(3,17,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(4,22,41),(3,17,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(4,22,41),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(1,5,10),(4,22,41)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(1,6,11),(1,5,10)); lvl=4; h,r-ind=1,1
    [4,3]((2,15,24),(2,13,20),(1,6,12),(2,12,19)); lvl=2; h,r-ind=1,1
      [4,3]((1,7,11),(2,13,20),(2,12,19),(1,6,10)); lvl=3; h,r-ind=1,1
        [3,3]((2,13,20),(2,12,19),(3,19,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(2,12,19),(3,19,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,11),(2,13,20),(3,19,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(1,7,11),(3,19,30)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,11),(2,12,21),(2,13,22),(1,6,10)); lvl=3; h,r-ind=1,1
        [3,3]((2,13,22),(2,12,21),(3,19,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(2,12,21),(3,19,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,11),(2,13,22),(3,19,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(1,7,11),(3,19,32)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,12),(1,6,12),(2,12,21),(2,13,22)); lvl=3; h,r-ind=1,1
        [4,3]((2,13,22),(4,26,45),(1,6,11),(2,12,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,19,33),(1,6,11),(4,26,45)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,22),(3,19,33),(4,26,45)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,21),(3,19,33),(1,6,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,22),(2,12,21),(3,19,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,12),(4,26,45),(1,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,12),(1,6,12),(1,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,22),(1,7,12),(4,26,45)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(1,7,12),(2,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,11),(2,15,24),(1,7,12)); lvl=3; h,r-ind=1,1
[3,3]((1,9,21),(1,9,12),(1,6,12)); lvl=1; h,r-ind=27,9; alert-h-inc
  [4,3]((1,9,21),(2,18,33),(2,15,33),(4,30,57)); lvl=2; h,r-ind=27,3
    [3,3]((2,15,29),(4,30,61),(1,8,16)); lvl=3; h,r-ind=3,3; optimized-h
    [4,3]((1,8,18),(2,15,33),(4,30,61),(1,8,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,16),(2,15,31),(4,30,61)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,17),(1,8,16),(2,15,31),(4,30,63)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,16),(3,23,48),(2,15,31)); lvl=5; h,r-ind=1,1
        [3,3]((4,30,63),(3,23,48),(2,15,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,17),(4,30,63),(3,23,48)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,17),(1,8,16),(3,23,48)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,18),(1,8,17),(2,15,33),(4,30,63)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,17),(2,15,32),(4,30,63)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,17),(4,31,67),(2,15,32)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,18),(4,31,67),(2,15,33),(2,15,32)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,23,50),(2,15,33),(2,15,32)); lvl=6; h,r-ind=1,1
          [3,3]((4,31,67),(3,23,50),(2,15,32)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,18),(4,31,67),(3,23,50)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,18),(3,23,50),(2,15,33)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,18),(1,8,17),(4,31,67)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,21),(1,8,18),(2,18,37),(1,8,16)); lvl=3; h,r-ind=1,1
      [4,3]((1,9,19),(2,18,39),(1,8,16),(1,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,17,36),(1,8,17),(1,8,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,19),(2,17,36),(1,8,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,19),(2,17,36),(2,18,39)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,36),(2,18,39),(1,8,17)); lvl=5; h,r-ind=1,1
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      [4,3]((1,9,21),(2,18,39),(1,8,18),(1,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,25,55),(1,8,17),(1,8,18)); lvl=5; h,r-ind=1,1
        [4,3]((1,9,21),(3,25,55),(1,9,20),(1,8,18)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,17,38),(1,9,20),(3,25,55)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,18),(2,17,38),(3,25,55)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,21),(2,17,38),(1,9,20)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,18),(1,9,21),(2,17,38)); lvl=6; h,r-ind=1,1
        [3,3]((3,25,55),(1,9,20),(1,8,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,20),(2,18,39),(1,8,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,18,37),(1,9,19),(1,8,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,17),(2,18,37),(1,8,16)); lvl=3; h,r-ind=3,3; optimized-h
    [3,3]((1,8,15),(2,15,29),(1,8,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,15),(1,9,17),(1,8,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,15),(2,18,33),(1,9,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,15),(2,15,29),(4,30,57)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,12),(2,15,33),(4,30,57)); lvl=2; h,r-ind=27,9
    [4,3]((4,30,61),(1,7,14),(1,7,15),(2,15,33)); lvl=3; h,r-ind=1,1
      [3,3]((5,36,75),(1,7,15),(1,7,14)); lvl=4; h,r-ind=1,1
      [4,3]((2,15,31),(4,30,63),(5,36,75),(1,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,14),(5,36,75),(3,22,46)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,14),(6,44,91),(3,22,46)); lvl=5; h,r-ind=1,1
        [4,3]((2,15,31),(4,30,63),(6,44,91),(3,22,46)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,37,77),(6,44,91),(3,22,46)); lvl=6; h,r-ind=1,1
          [3,3]((4,30,63),(5,37,77),(3,22,46)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,31),(4,30,63),(5,37,77)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,31),(5,37,77),(6,44,91)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,14),(2,15,31),(6,44,91)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,31),(4,30,61),(1,7,14)); lvl=4; h,r-ind=1,1
      [4,3]((4,30,63),(5,36,75),(2,15,33),(1,7,15)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((3,22,46),(7,51,108),(1,7,15),(5,36,75)); lvl=5; h,r-ind=1,3
          [3,3]((4,29,61),(1,7,15),(7,51,108)); lvl=6; h,r-ind=1,1
          [3,3]((3,22,46),(4,29,61),(7,51,108)); lvl=6; h,r-ind=1,1
          [3,3]((5,36,75),(4,29,61),(1,7,15)); lvl=6; h,r-ind=1,1
          [3,3]((3,22,46),(5,36,75),(4,29,61)); lvl=6; h,r-ind=1,1
        [4,3]((2,15,32),(7,51,108),(2,15,33),(1,7,15)); lvl=5; h,r-ind=1,3
          [3,3]((1,7,15),(3,22,47),(7,51,108)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,32),(3,22,47),(7,51,108)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,33),(1,7,15),(3,22,47)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,32),(2,15,33),(3,22,47)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,46),(2,15,32),(7,51,108)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((4,30,63),(3,22,46),(2,15,32)); lvl=5; h,r-ind=1,1
    [3,3]((4,30,61),(2,15,29),(1,7,14)); lvl=3; h,r-ind=3,3; optimized-h
    [4,3]((5,36,69),(4,30,57),(2,15,29),(1,7,14)); lvl=3; h,r-ind=1,1
      [4,3]((3,22,42),(6,44,85),(2,15,29),(4,30,57)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,15,29),(5,37,71),(6,44,85)); lvl=5; h,r-ind=1,1
        [3,3]((3,22,42),(5,37,71),(6,44,85)); lvl=5; h,r-ind=1,1
        [3,3]((4,30,57),(2,15,29),(5,37,71)); lvl=5; h,r-ind=1,1
        [3,3]((3,22,42),(4,30,57),(5,37,71)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,14),(6,44,85),(2,15,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,22,42),(1,7,14),(6,44,85)); lvl=4; h,r-ind=1,1
      [3,3]((5,36,69),(3,22,42),(1,7,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,12),(5,36,69),(1,7,14)); lvl=3; h,r-ind=3,3; optimized-h
    [3,3]((1,6,12),(1,7,14),(1,7,15)); lvl=3; h,r-ind=1,1
  [4,3]((1,9,12),(2,15,24),(2,18,33),(4,30,57)); lvl=2; h,r-ind=27,3
    [3,3]((1,8,15),(2,15,28),(4,30,57)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,14),(1,8,15),(2,15,28)); lvl=3; h,r-ind=1,1
    [3,3]((1,9,16),(1,8,14),(1,8,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,9,16),(1,8,15),(2,18,33)); lvl=3; h,r-ind=1,1
    [3,3]((2,18,29),(1,9,16),(1,8,14)); lvl=3; h,r-ind=3,3; optimized-h
    [3,3]((1,8,14),(2,15,28),(4,30,53)); lvl=3; h,r-ind=3,3; optimized-h
    [4,3]((1,8,14),(1,8,12),(2,15,24),(4,30,53)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,12),(1,8,13),(2,15,24),(4,30,51)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,13),(2,15,25),(4,30,51)); lvl=5; h,r-ind=1,1
        [3,3]((4,31,50),(1,8,13),(2,15,25)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,12),(4,31,50),(2,15,24),(2,15,25)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,23,37),(2,15,24),(2,15,25)); lvl=6; h,r-ind=1,1
          [3,3]((4,31,50),(3,23,37),(2,15,25)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,12),(4,31,50),(3,23,37)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,12),(3,23,37),(2,15,24)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,12),(4,31,50),(1,8,13)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,14),(2,15,26),(1,8,13),(4,30,51)); lvl=4; h,r-ind=1,1
        [3,3]((3,23,39),(4,30,51),(2,15,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(3,23,39),(2,15,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,13),(3,23,39),(4,30,51)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(1,8,13),(3,23,39)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,14),(2,15,26),(4,30,53)); lvl=4; h,r-ind=1,1
    [4,3]((1,9,12),(2,18,29),(1,8,14),(1,8,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,9,14),(2,18,27),(1,8,13),(1,8,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,18,27),(1,8,13),(2,17,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(1,8,13),(2,17,27)); lvl=5; h,r-ind=1,1
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          [3,3]((1,9,14),(2,18,27),(2,17,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,14),(1,8,14),(2,17,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,14),(2,18,29),(1,8,14)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,12),(1,9,12),(2,18,27),(1,8,13)); lvl=4; h,r-ind=1,1
          [3,3]((1,8,13),(1,9,13),(3,25,38)); lvl=5; h,r-ind=1,1
          [4,3]((1,8,12),(1,9,12),(1,9,13),(3,25,38)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,17,25),(1,9,12),(1,9,13)); lvl=6; h,r-ind=1,1
            [3,3]((3,25,38),(2,17,25),(1,9,13)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,12),(3,25,38),(2,17,25)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,12),(2,17,25),(1,9,12)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,13),(1,8,12),(3,25,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,13),(2,18,27),(1,9,13)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,12),(2,15,24),(4,30,57)); lvl=2; h,r-ind=27,9
      [4,3]((2,15,24),(1,7,12),(1,7,13),(4,30,53)); lvl=3; h,r-ind=1,1
        [3,3]((5,36,63),(1,7,13),(1,7,12)); lvl=4; h,r-ind=1,1
        [4,3]((2,15,24),(4,30,51),(5,36,63),(1,7,12)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((7,51,87),(1,7,12),(5,36,63),(3,22,38)); lvl=5; h,r-ind=1,3
            [3,3]((1,7,12),(5,36,63),(4,29,50)); lvl=6; h,r-ind=1,1
            [3,3]((3,22,38),(5,36,63),(4,29,50)); lvl=6; h,r-ind=1,1
            [3,3]((7,51,87),(1,7,12),(4,29,50)); lvl=6; h,r-ind=1,1
            [3,3]((3,22,38),(7,51,87),(4,29,50)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,25),(7,51,87),(3,22,38)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [3,3]((2,15,25),(4,30,51),(3,22,38)); lvl=5; h,r-ind=1,1
          [4,3]((2,15,25),(2,15,24),(7,51,87),(1,7,12)); lvl=5; h,r-ind=1,3
            [3,3]((3,22,37),(1,7,12),(2,15,24)); lvl=6; h,r-ind=1,1
            [3,3]((2,15,25),(3,22,37),(2,15,24)); lvl=6; h,r-ind=1,1
            [3,3]((7,51,87),(3,22,37),(1,7,12)); lvl=6; h,r-ind=1,1
            [3,3]((2,15,25),(7,51,87),(3,22,37)); lvl=6; h,r-ind=1,1
        [4,3]((2,15,26),(4,30,51),(5,36,63),(1,7,13)); lvl=4; h,r-ind=1,1
          [3,3]((1,7,13),(3,22,38),(5,36,63)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,13),(6,44,77),(3,22,38)); lvl=5; h,r-ind=1,1
          [4,3]((2,15,26),(6,44,77),(4,30,51),(3,22,38)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((5,37,64),(3,22,38),(6,44,77)); lvl=6; h,r-ind=1,1
            [3,3]((2,15,26),(5,37,64),(6,44,77)); lvl=6; h,r-ind=1,1
            [3,3]((4,30,51),(5,37,64),(3,22,38)); lvl=6; h,r-ind=1,1
            [3,3]((2,15,26),(4,30,51),(5,37,64)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,26),(1,7,13),(6,44,77)); lvl=5; h,r-ind=1,1
        [3,3]((4,30,53),(2,15,26),(1,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,28),(1,7,13),(4,30,53)); lvl=3; h,r-ind=3,3; optimized-h
      [4,3]((2,15,28),(4,30,57),(5,36,69),(1,7,13)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,13),(5,36,69),(3,22,42)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,13),(6,44,83),(3,22,42)); lvl=4; h,r-ind=1,1
        [4,3]((2,15,28),(4,30,57),(6,44,83),(3,22,42)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,37,70),(6,44,83),(3,22,42)); lvl=5; h,r-ind=1,1
          [3,3]((4,30,57),(5,37,70),(3,22,42)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,28),(4,30,57),(5,37,70)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,28),(5,37,70),(6,44,83)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,13),(2,15,28),(6,44,83)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(5,36,69),(1,7,13)); lvl=3; h,r-ind=3,3; optimized-h
      [3,3]((1,6,12),(1,7,12),(1,7,13)); lvl=3; h,r-ind=1,1
[4,3]((1,9,21),(2,9,21),(1,6,12),(1,3,6)); lvl=1; h,r-ind=9,3
  [4,3]((2,9,18),(2,12,27),(1,4,9),(1,3,6)); lvl=2; h,r-ind=3,3
    [3,3]((2,12,27),(1,5,11),(1,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,5,11),(1,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,4,8),(1,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((4,21,45),(2,12,27),(1,5,11)); lvl=3; h,r-ind=3,3; optimized-h
    [4,3]((2,9,18),(4,21,45),(1,4,8),(1,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,11),(2,10,21),(4,21,45)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(2,10,21),(4,19,40)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,11),(4,19,40)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,8),(2,9,18),(2,10,21),(4,19,40)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,18),(3,14,29),(2,10,21)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,40),(3,14,29),(2,10,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(4,19,40),(3,14,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(2,9,18),(3,14,29)); lvl=5; h,r-ind=1,1
  [4,3]((1,6,12),(2,9,18),(2,15,33),(2,12,27)); lvl=2; h,r-ind=9,3
    [3,3]((2,12,27),(4,27,60),(1,6,13)); lvl=3; h,r-ind=3,3; optimized-h
    [4,3]((2,15,33),(1,7,15),(4,27,60),(1,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,15),(1,6,13),(4,27,59)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,31),(1,6,13),(4,27,59)); lvl=4; h,r-ind=1,1
      [3,3]((4,27,60),(2,14,31),(1,6,13)); lvl=4; h,r-ind=1,1
      [4,3]((2,15,33),(2,14,31),(1,7,15),(4,27,59)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,14,31),(4,27,59),(3,21,46)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,15),(4,27,59),(3,21,46)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,33),(2,14,31),(3,21,46)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,15),(2,15,33),(3,21,46)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,15),(1,6,12),(1,5,10),(1,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,12),(1,5,10),(2,12,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,13),(1,5,10),(2,12,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,15),(1,6,12),(2,12,25)); lvl=4; h,r-ind=1,1
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      [3,3]((1,6,13),(1,7,15),(2,12,25)); lvl=4; h,r-ind=1,1
    [3,3]((4,21,45),(2,12,27),(1,6,13)); lvl=3; h,r-ind=3,3; optimized-h
    [4,3]((2,9,18),(4,21,45),(1,5,10),(1,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,13),(2,10,21),(4,21,44)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,10),(2,9,18),(2,10,21),(4,21,44)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,18),(3,15,31),(2,10,21)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,44),(3,15,31),(2,10,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(4,21,44),(3,15,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(2,9,18),(3,15,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(1,6,13),(4,21,44)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,13),(4,21,45),(2,10,21)); lvl=4; h,r-ind=1,1
  [3,3]((1,9,21),(2,15,33),(2,12,27)); lvl=2; h,r-ind=9,3; optimized-h
  [3,3]((1,6,14),(2,12,27),(1,4,9)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
  [3,3]((2,9,21),(1,6,14),(1,4,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,9,21),(1,6,14),(2,12,27)); lvl=2; h,r-ind=3,3; optimized-h
[3,3]((1,0,0),(2,9,21),(1,3,6)); lvl=1; h,r-ind=9,3; optimized-h
[3,3]((1,0,0),(1,3,6),(2,6,9)); lvl=1; h,r-ind=9,3; optimized-h
```

21.18 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,10,21)); lvl=0; h,r-ind=21,441
  [4,3]((0,1,0),(2,2,3),(2,20,21),(1,0,0)); lvl=1; h,r-ind=3,3
    [4,3]((2,11,11),(2,2,3),(1,1,1),(2,11,12)); lvl=2; h,r-ind=9,1; alert-h-inc
      [4,3]((1,1,1),(2,7,7),(4,13,15),(2,2,3)); lvl=3; h,r-ind=1,1
        [3,3]((4,13,15),(2,6,7),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(3,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,7),(1,3,3),(3,10,11)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,5),(4,9,11),(1,3,3),(2,6,7)); lvl=4; h,r-ind=1,1
          [4,3]((3,7,8),(2,5,6),(7,18,20),(4,10,11)); lvl=5; h,r-ind=1,1
            [3,3]((6,15,17),(2,5,6),(7,18,20)); lvl=6; h,r-ind=1,1
            [3,3]((6,15,17),(4,10,11),(7,18,20)); lvl=6; h,r-ind=1,1
            [3,3]((3,7,8),(6,15,17),(4,10,11)); lvl=6; h,r-ind=1,1
            [3,3]((3,7,8),(6,15,17),(2,5,6)); lvl=6; h,r-ind=1,1
          [4,3]((2,5,5),(1,3,3),(7,18,20),(4,10,11)); lvl=5; h,r-ind=1,1
            [3,3]((5,13,14),(7,18,20),(1,3,3)); lvl=6; h,r-ind=1,1
            [3,3]((2,5,5),(5,13,14),(1,3,3)); lvl=6; h,r-ind=1,1
            [3,3]((5,13,14),(4,10,11),(7,18,20)); lvl=6; h,r-ind=1,1
            [3,3]((2,5,5),(5,13,14),(4,10,11)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,5),(3,7,8),(4,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,8),(4,9,11),(2,5,6)); lvl=5; h,r-ind=1,1
          [4,3]((1,3,3),(2,5,6),(2,6,7),(7,18,20)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((3,8,9),(2,6,7),(2,5,6)); lvl=6; h,r-ind=1,1
            [3,3]((7,18,20),(3,8,9),(2,5,6)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,3),(7,18,20),(3,8,9)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,3),(3,8,9),(2,6,7)); lvl=6; h,r-ind=1,1
        [4,3]((1,1,1),(2,5,5),(2,2,3),(4,9,11)); lvl=4; h,r-ind=1,1
          [3,3]((2,4,5),(4,9,11),(3,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(2,4,5),(3,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(2,5,5),(3,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(4,7,9),(2,4,5)); lvl=5; h,r-ind=1,1
          [4,3]((2,2,3),(1,1,1),(1,2,2),(4,7,9)); lvl=5; h,r-ind=1,1
            [3,3]((1,1,1),(4,6,7),(1,2,2)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,4),(4,6,7),(1,2,2)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,4),(4,7,9),(1,2,2)); lvl=6; h,r-ind=1,1
            [4,3]((2,2,3),(2,3,4),(1,1,1),(4,6,7)); lvl=6; h,r-ind=1,2; alert-r-inc
              [3,3]((3,4,5),(2,3,4),(4,6,7)); lvl=7; h,r-ind=1,1
              [3,3]((3,4,5),(1,1,1),(4,6,7)); lvl=7; h,r-ind=1,1
              [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=7; h,r-ind=1,1
              [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=7; h,r-ind=1,1
      [4,3]((2,11,12),(1,5,5),(2,7,7),(4,13,15)); lvl=3; h,r-ind=3,1
        [3,3]((3,10,11),(2,7,7),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(3,10,11),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,17,19),(2,7,8),(1,4,4)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
        [4,3]((2,11,12),(4,17,19),(1,5,5),(1,4,4)); lvl=4; h,r-ind=1,1
          [4,3]((1,4,4),(2,9,10),(4,19,21),(5,23,24)); lvl=5; h,r-ind=1,1
            [4,3]((3,14,15),(2,9,10),(4,19,21),(6,27,29)); lvl=6; h,r-ind=1,2; alert-r-inc
              [3,3]((5,23,25),(4,19,21),(2,9,10)); lvl=7; h,r-ind=1,1
              [3,3]((6,27,29),(5,23,25),(2,9,10)); lvl=7; h,r-ind=1,1
              [3,3]((3,14,15),(6,27,29),(5,23,25)); lvl=7; h,r-ind=1,1
              [3,3]((3,14,15),(5,23,25),(4,19,21)); lvl=7; h,r-ind=1,1
            [3,3]((1,4,4),(3,14,15),(6,27,29)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,4),(3,14,15),(5,23,24)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,4),(2,9,10),(6,27,29)); lvl=6; h,r-ind=1,1
          [4,3]((1,5,5),(2,11,12),(4,19,21),(5,23,24)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc
            [3,3]((3,14,15),(4,19,21),(2,10,11)); lvl=6; h,r-ind=1,1
            [3,3]((3,14,15),(7,34,36),(2,10,11)); lvl=6; h,r-ind=2,4; alert-r-inc; optimized-h
            [4,3]((1,5,5),(2,11,12),(7,34,36),(2,10,11)); lvl=6; h,r-ind=1,3
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            [3,3]((2,11,12),(3,15,16),(2,10,11)); lvl=7; h,r-ind=1,1
            [3,3]((7,34,36),(3,15,16),(2,10,11)); lvl=7; h,r-ind=1,1
            [3,3]((1,5,5),(7,34,36),(3,15,16)); lvl=7; h,r-ind=1,1
            [3,3]((1,5,5),(2,11,12),(3,15,16)); lvl=7; h,r-ind=1,1
          [4,3]((1,5,5),(3,14,15),(5,23,24),(7,34,36)); lvl=6; h,r-ind=1,3
            [3,3]((3,14,15),(5,23,24),(4,19,20)); lvl=7; h,r-ind=1,1
            [3,3]((1,5,5),(5,23,24),(4,19,20)); lvl=7; h,r-ind=1,1
            [3,3]((7,34,36),(3,14,15),(4,19,20)); lvl=7; h,r-ind=1,1
            [3,3]((1,5,5),(7,34,36),(4,19,20)); lvl=7; h,r-ind=1,1
        [3,3]((1,5,5),(1,4,4),(5,23,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(4,17,19),(2,9,10)); lvl=5; h,r-ind=1,1
      [3,3]((4,13,15),(2,7,8),(3,10,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,12),(2,11,11),(1,5,5)); lvl=3; h,r-ind=1,1
[4,3]((1,10,10),(2,11,11),(2,20,21),(2,11,12)); lvl=2; h,r-ind=9,1; alert-h-inc
    [3,3]((2,11,12),(2,11,11),(1,6,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,15,15),(4,31,33),(2,11,12),(1,6,6)); lvl=3; h,r-ind=3,1
      [4,3]((1,7,7),(1,6,6),(2,11,12),(4,27,29)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,6),(2,11,12),(4,25,27),(5,32,33)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [3,3]((3,19,20),(2,12,13),(4,25,27)); lvl=6; h,r-ind=1,1
          [3,3]((3,19,20),(7,43,45),(2,12,13)); lvl=6; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,6,6),(2,11,12),(7,43,45),(2,12,13)); lvl=6; h,r-ind=1,3
            [3,3]((2,11,12),(3,18,19),(2,12,13)); lvl=7; h,r-ind=1,1
            [3,3]((7,43,45),(3,18,19),(2,12,13)); lvl=7; h,r-ind=1,1
            [3,3]((1,6,6),(7,43,45),(3,18,19)); lvl=7; h,r-ind=1,1
            [3,3]((1,6,6),(2,11,12),(3,18,19)); lvl=7; h,r-ind=1,1
          [4,3]((1,6,6),(5,32,33),(3,19,20),(7,43,45)); lvl=6; h,r-ind=1,3
            [3,3]((5,32,33),(4,25,26),(3,19,20)); lvl=7; h,r-ind=1,1
            [3,3]((7,43,45),(4,25,26),(3,19,20)); lvl=7; h,r-ind=1,1
            [3,3]((1,6,6),(7,43,45),(4,25,26)); lvl=7; h,r-ind=1,1
            [3,3]((1,6,6),(5,32,33),(4,25,26)); lvl=7; h,r-ind=1,1
        [4,3]((1,7,7),(2,13,14),(4,25,27),(5,32,33)); lvl=5; h,r-ind=1,1
          [4,3]((6,39,41),(3,19,20),(2,13,14),(4,25,27)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((3,19,20),(4,25,27),(5,32,34)); lvl=7; h,r-ind=1,1
            [3,3]((2,13,14),(4,25,27),(5,32,34)); lvl=7; h,r-ind=1,1
            [3,3]((6,39,41),(3,19,20),(5,32,34)); lvl=7; h,r-ind=1,1
            [3,3]((2,13,14),(6,39,41),(5,32,34)); lvl=7; h,r-ind=1,1
          [3,3]((1,7,7),(6,39,41),(3,19,20)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,7),(3,19,20),(5,32,33)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,7),(6,39,41),(2,13,14)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,7),(2,13,14),(4,27,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,7),(1,6,6),(5,32,33)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,7),(2,15,16),(4,27,29)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((1,7,7),(2,15,16),(3,23,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,15),(1,7,7),(3,23,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,16),(4,31,33),(3,23,24)); lvl=4; h,r-ind=1,1
    [4,3]((1,10,10),(2,15,15),(2,20,21),(4,31,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,23,24),(4,31,33),(2,16,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,8),(3,23,24),(2,16,17)); lvl=4; h,r-ind=1,1
      [4,3]((2,17,17),(4,35,37),(1,8,8),(2,16,17)); lvl=4; h,r-ind=1,1
        [4,3]((7,59,61),(2,17,18),(2,16,17),(1,8,8)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((2,17,18),(3,25,26),(2,16,17)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,8),(3,25,26),(2,16,17)); lvl=6; h,r-ind=1,1
          [3,3]((7,59,61),(1,8,8),(3,25,26)); lvl=6; h,r-ind=1,1
          [3,3]((7,59,61),(2,17,18),(3,25,26)); lvl=6; h,r-ind=1,1
        [4,3]((2,17,17),(4,34,35),(7,59,61),(1,8,8)); lvl=5; h,r-ind=1,1
          [3,3]((5,42,43),(4,34,35),(7,59,61)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,8),(5,42,43),(7,59,61)); lvl=6; h,r-ind=1,1
          [3,3]((2,17,17),(5,42,43),(4,34,35)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,8),(2,17,17),(5,42,43)); lvl=6; h,r-ind=1,1
        [3,3]((3,26,27),(2,17,17),(4,34,35)); lvl=5; h,r-ind=1,1
        [4,3]((3,26,27),(4,34,35),(7,59,61),(2,17,18)); lvl=5; h,r-ind=1,1
          [3,3]((6,51,53),(4,34,35),(7,59,61)); lvl=6; h,r-ind=1,1
          [3,3]((2,17,18),(6,51,53),(7,59,61)); lvl=6; h,r-ind=1,1
          [3,3]((3,26,27),(6,51,53),(4,34,35)); lvl=6; h,r-ind=1,1
          [3,3]((2,17,18),(3,26,27),(6,51,53)); lvl=6; h,r-ind=1,1
        [3,3]((3,26,27),(2,17,18),(4,35,37)); lvl=5; h,r-ind=1,1
      [4,3]((1,10,10),(2,17,17),(2,20,21),(4,35,37)); lvl=4; h,r-ind=1,1
        [3,3]((2,18,19),(4,35,37),(3,26,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,9),(2,18,19),(3,26,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,17),(1,9,9),(3,26,27)); lvl=5; h,r-ind=1,1
        [3,3]((4,37,39),(1,9,9),(2,18,19)); lvl=5; h,r-ind=1,1
        [4,3]((1,10,10),(4,37,39),(2,20,21),(1,9,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,9),(2,19,20),(4,37,39)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,9),(4,38,39),(2,19,20)); lvl=6; h,r-ind=1,1
          [4,3]((1,10,10),(4,38,39),(2,20,21),(2,19,20)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((3,29,30),(4,38,39),(2,19,20)); lvl=7; h,r-ind=1,1
            [3,3]((2,20,21),(3,29,30),(2,19,20)); lvl=7; h,r-ind=1,1
            [3,3]((1,10,10),(2,20,21),(3,29,30)); lvl=7; h,r-ind=1,1
            [3,3]((1,10,10),(3,29,30),(4,38,39)); lvl=7; h,r-ind=1,1
          [3,3]((1,10,10),(1,9,9),(4,38,39)); lvl=6; h,r-ind=1,1
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      [3,3]((2,15,15),(1,8,8),(3,23,24)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,10,10),(2,20,21)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,10,10),(2,11,11)); lvl=2; h,r-ind=9,9; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(2,11,11),(1,1,1)); lvl=2; h,r-ind=9,9; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
[3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
[3,3]((1,10,21),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
[5,3]((2,11,22),(1,1,2),(2,2,3),(1,10,11),(2,20,21)); lvl=1; h,r-ind=9,1
  [4,3]((2,11,13),(2,11,12),(1,2,3),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(1,4,5),(2,2,3),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(4,13,15),(2,6,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(4,9,11),(1,4,5),(2,6,7)); lvl=4; h,r-ind=1,1
        [4,3]((4,12,15),(1,4,5),(2,5,6),(2,6,7)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((1,4,5),(2,6,7),(3,9,11)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,6),(2,6,7),(3,9,11)); lvl=6; h,r-ind=1,1
          [3,3]((4,12,15),(1,4,5),(3,9,11)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,6),(4,12,15),(3,9,11)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(4,12,15),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(4,12,15),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,6),(4,9,11)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,3),(1,3,4),(2,2,3),(4,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(1,3,4),(4,9,11)); lvl=5; h,r-ind=1,1
        [4,3]((5,11,15),(2,4,5),(4,7,9),(1,3,4)); lvl=5; h,r-ind=1,1
          [4,3]((3,6,8),(6,13,17),(4,7,9),(2,4,5)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((2,4,5),(6,13,17),(5,10,13)); lvl=7; h,r-ind=1,1
            [3,3]((3,6,8),(6,13,17),(5,10,13)); lvl=7; h,r-ind=1,1
            [3,3]((4,7,9),(2,4,5),(5,10,13)); lvl=7; h,r-ind=1,1
            [3,3]((3,6,8),(4,7,9),(5,10,13)); lvl=7; h,r-ind=1,1
          [3,3]((1,3,4),(6,13,17),(2,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((3,6,8),(1,3,4),(6,13,17)); lvl=6; h,r-ind=1,1
          [3,3]((5,11,15),(3,6,8),(1,3,4)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,3),(5,11,15),(1,3,4)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,3),(5,11,15),(2,2,3),(4,7,9)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [3,3]((2,3,4),(3,6,8),(7,13,18)); lvl=6; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,2,3),(5,11,15),(3,6,8),(7,13,18)); lvl=6; h,r-ind=1,3
            [3,3]((4,8,11),(5,11,15),(3,6,8)); lvl=7; h,r-ind=1,1
            [3,3]((7,13,18),(4,8,11),(3,6,8)); lvl=7; h,r-ind=1,1
            [3,3]((1,2,3),(7,13,18),(4,8,11)); lvl=7; h,r-ind=1,1
            [3,3]((1,2,3),(4,8,11),(5,11,15)); lvl=7; h,r-ind=1,1
          [4,3]((1,2,3),(2,2,3),(2,3,4),(7,13,18)); lvl=6; h,r-ind=1,3
            [3,3]((3,5,7),(2,3,4),(2,2,3)); lvl=7; h,r-ind=1,1
            [3,3]((1,2,3),(3,5,7),(2,2,3)); lvl=7; h,r-ind=1,1
            [3,3]((7,13,18),(3,5,7),(2,3,4)); lvl=7; h,r-ind=1,1
            [3,3]((1,2,3),(7,13,18),(3,5,7)); lvl=7; h,r-ind=1,1
          [3,3]((4,7,9),(2,3,4),(3,6,8)); lvl=6; h,r-ind=1,1
    [4,3]((1,5,6),(1,4,5),(2,11,12),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(4,13,15),(2,7,8)); lvl=4; h,r-ind=1,1
      [4,3]((7,31,37),(4,17,19),(1,4,5),(2,7,8)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,5),(7,29,34),(2,8,9),(2,7,8)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((2,8,9),(3,12,14),(7,29,34)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(3,12,14),(7,29,34)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,8),(2,8,9),(3,12,14)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(2,7,8),(3,12,14)); lvl=6; h,r-ind=1,1
        [4,3]((3,13,15),(4,17,20),(7,29,34),(2,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((4,17,20),(7,29,34),(6,25,29)); lvl=6; h,r-ind=1,1
          [3,3]((2,8,9),(7,29,34),(6,25,29)); lvl=6; h,r-ind=1,1
          [3,3]((3,13,15),(4,17,20),(6,25,29)); lvl=6; h,r-ind=1,1
          [3,3]((2,8,9),(3,13,15),(6,25,29)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(4,17,20),(7,29,34)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,15),(2,8,9),(4,17,19)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,15),(8,35,41),(4,17,20)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,5),(7,31,37),(8,35,41),(4,17,20)); lvl=5; h,r-ind=1,1
          [4,3]((4,17,20),(5,22,26),(8,35,41),(10,43,51)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((8,35,41),(9,39,46),(5,22,26)); lvl=7; h,r-ind=1,1
            [3,3]((10,43,51),(9,39,46),(5,22,26)); lvl=7; h,r-ind=1,1
            [3,3]((4,17,20),(8,35,41),(9,39,46)); lvl=7; h,r-ind=1,1
            [3,3]((10,43,51),(4,17,20),(9,39,46)); lvl=7; h,r-ind=1,1
          [3,3]((1,4,5),(4,17,20),(10,43,51)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(5,22,26),(10,43,51)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(5,22,26),(7,31,37)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,6),(7,31,37),(1,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,6),(7,31,37),(2,11,12),(4,17,19)); lvl=4; h,r-ind=5,5; alert-h-inc; alert-r-inc
        [3,3]((3,13,15),(4,18,21),(8,35,41)); lvl=5; h,r-ind=1,1
        [5,3]((1,5,6),(9,42,49),(7,31,37),(4,18,21),(8,35,41)); lvl=5; h,r-ind=1,1
          [4,3]((14,63,74),(9,40,47),(8,35,41),(4,18,21)); lvl=6; h,r-ind=1,1
            [3,3]((9,40,47),(8,35,41),(13,58,68)); lvl=7; h,r-ind=1,1
            [3,3]((4,18,21),(8,35,41),(13,58,68)); lvl=7; h,r-ind=1,1
            [3,3]((14,63,74),(9,40,47),(13,58,68)); lvl=7; h,r-ind=1,1
            [3,3]((4,18,21),(14,63,74),(13,58,68)); lvl=7; h,r-ind=1,1
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  [4,3]((5,23,27),(15,68,80),(14,63,74),(4,18,21)); lvl=6; h,r-ind=1,1
    [3,3]((15,68,80),(14,63,74),(19,86,101)); lvl=7; h,r-ind=1,1
    [3,3]((4,18,21),(14,63,74),(19,86,101)); lvl=7; h,r-ind=1,1
    [3,3]((5,23,27),(15,68,80),(19,86,101)); lvl=7; h,r-ind=1,1
    [3,3]((4,18,21),(5,23,27),(19,86,101)); lvl=7; h,r-ind=1,1
  [3,3]((9,42,49),(5,23,27),(4,18,21)); lvl=6; h,r-ind=1,1
  [3,3]((1,5,6),(9,42,49),(5,23,27)); lvl=6; h,r-ind=1,1
  [3,3]((9,40,47),(5,22,26),(8,35,41)); lvl=6; h,r-ind=1,1
  [5,3]((11,50,59),(15,68,80),(14,63,74),(9,40,47),(5,22,26)); lvl=6; h,r-ind=1,1
    [3,3]((14,63,74),(15,68,80),(10,45,53)); lvl=7; h,r-ind=1,1
    [3,3]((11,50,59),(15,68,80),(10,45,53)); lvl=7; h,r-ind=1,1
    [3,3]((14,63,74),(9,40,47),(10,45,53)); lvl=7; h,r-ind=1,1
    [3,3]((5,22,26),(9,40,47),(10,45,53)); lvl=7; h,r-ind=1,1
    [3,3]((11,50,59),(5,22,26),(10,45,53)); lvl=7; h,r-ind=1,1
  [4,3]((1,5,6),(11,50,59),(7,31,37),(5,22,26)); lvl=6; h,r-ind=1,3; alert-r-inc
    [3,3]((6,27,32),(11,50,59),(5,22,26)); lvl=7; h,r-ind=1,1
    [3,3]((7,31,37),(6,27,32),(5,22,26)); lvl=7; h,r-ind=1,1
    [3,3]((1,5,6),(7,31,37),(6,27,32)); lvl=7; h,r-ind=1,1
    [3,3]((1,5,6),(6,27,32),(11,50,59)); lvl=7; h,r-ind=1,1
  [4,3]((1,5,6),(5,23,27),(11,50,59),(15,68,80)); lvl=6; h,r-ind=1,1
    [3,3]((5,23,27),(15,68,80),(16,73,86)); lvl=7; h,r-ind=1,1
    [3,3]((11,50,59),(15,68,80),(16,73,86)); lvl=7; h,r-ind=1,1
    [3,3]((1,5,6),(5,23,27),(16,73,86)); lvl=7; h,r-ind=1,1
    [3,3]((11,50,59),(1,5,6),(16,73,86)); lvl=7; h,r-ind=1,1
[5,3]((2,9,10),(3,14,16),(9,42,49),(3,13,15),(4,18,21)); lvl=5; h,r-ind=1,1
  [3,3]((8,37,43),(9,42,49),(4,18,21)); lvl=6; h,r-ind=1,1
  [4,3]((7,32,37),(8,37,43),(14,63,73),(4,18,21)); lvl=6; h,r-ind=1,2; alert-r-inc
    [3,3]((11,50,58),(4,18,21),(14,63,73)); lvl=7; h,r-ind=1,1
    [3,3]((7,32,37),(11,50,58),(14,63,73)); lvl=7; h,r-ind=1,1
    [3,3]((8,37,43),(7,32,37),(11,50,58)); lvl=7; h,r-ind=1,1
    [3,3]((8,37,43),(11,50,58),(4,18,21)); lvl=7; h,r-ind=1,1
  [3,3]((14,63,73),(3,13,15),(4,18,21)); lvl=6; h,r-ind=1,1
  [5,3]((2,9,10),(12,55,63),(7,32,37),(14,63,73),(3,13,15)); lvl=6; h,r-ind=1,1
    [3,3]((7,32,37),(12,55,63),(9,41,47)); lvl=7; h,r-ind=1,1
    [3,3]((2,9,10),(12,55,63),(9,41,47)); lvl=7; h,r-ind=1,1
    [4,3]((15,68,78),(13,59,68),(7,32,37),(9,41,47)); lvl=7; h,r-ind=1,1
      [3,3]((7,32,37),(13,59,68),(22,100,115)); lvl=8; h,r-ind=1,1
      [3,3]((15,68,78),(13,59,68),(22,100,115)); lvl=8; h,r-ind=1,1
      [3,3]((9,41,47),(15,68,78),(22,100,115)); lvl=8; h,r-ind=1,1
      [3,3]((9,41,47),(7,32,37),(22,100,115)); lvl=8; h,r-ind=1,1
    [3,3]((2,9,10),(15,68,78),(9,41,47)); lvl=7; h,r-ind=1,1
    [4,3]((15,68,78),(13,59,68),(6,27,31),(16,72,83)); lvl=7; h,r-ind=1,1
      [3,3]((19,86,99),(6,27,31),(16,72,83)); lvl=8; h,r-ind=1,1
      [3,3]((19,86,99),(13,59,68),(16,72,83)); lvl=8; h,r-ind=1,1
      [3,3]((15,68,78),(19,86,99),(13,59,68)); lvl=8; h,r-ind=1,1
      [3,3]((15,68,78),(19,86,99),(6,27,31)); lvl=8; h,r-ind=1,1
    [3,3]((3,13,15),(6,27,31),(16,72,83)); lvl=7; h,r-ind=1,1
    [3,3]((2,9,10),(3,13,15),(6,27,31)); lvl=7; h,r-ind=1,1
    [3,3]((2,9,10),(15,68,78),(6,27,31)); lvl=7; h,r-ind=1,1
    [4,3]((13,59,68),(16,72,83),(7,32,37),(10,45,52)); lvl=7; h,r-ind=1,1
      [3,3]((16,72,83),(10,45,52),(23,104,120)); lvl=8; h,r-ind=1,1
      [3,3]((7,32,37),(10,45,52),(23,104,120)); lvl=8; h,r-ind=1,1
      [3,3]((13,59,68),(16,72,83),(23,104,120)); lvl=8; h,r-ind=1,1
      [3,3]((7,32,37),(13,59,68),(23,104,120)); lvl=8; h,r-ind=1,1
    [3,3]((7,32,37),(14,63,73),(10,45,52)); lvl=7; h,r-ind=1,1
    [3,3]((3,13,15),(14,63,73),(10,45,52)); lvl=7; h,r-ind=1,1
    [3,3]((3,13,15),(16,72,83),(10,45,52)); lvl=7; h,r-ind=1,1
  [4,3]((12,55,63),(7,32,37),(3,14,16),(8,37,43)); lvl=6; h,r-ind=1,2; alert-r-inc
    [3,3]((7,32,37),(8,37,43),(10,46,53)); lvl=7; h,r-ind=1,1
    [3,3]((3,14,16),(8,37,43),(10,46,53)); lvl=7; h,r-ind=1,1
    [3,3]((12,55,63),(3,14,16),(10,46,53)); lvl=7; h,r-ind=1,1
    [3,3]((12,55,63),(7,32,37),(10,46,53)); lvl=7; h,r-ind=1,1
  [3,3]((2,9,10),(12,55,63),(3,14,16)); lvl=6; h,r-ind=1,1
  [3,3]((3,14,16),(8,37,43),(9,42,49)); lvl=6; h,r-ind=1,1
[3,3]((2,9,10),(4,17,19),(3,13,15)); lvl=5; h,r-ind=1,1
[3,3]((2,9,10),(4,19,21),(3,14,16)); lvl=5; h,r-ind=1,1
[5,3]((1,5,6),(2,11,12),(4,19,21),(3,14,16),(9,42,49)); lvl=5; h,r-ind=1,1
  [4,3]((4,19,22),(10,48,55),(9,43,49),(3,14,16)); lvl=6; h,r-ind=1,1
    [3,3]((13,62,71),(9,43,49),(10,48,55)); lvl=7; h,r-ind=1,1
    [3,3]((4,19,22),(13,62,71),(10,48,55)); lvl=7; h,r-ind=1,1
    [3,3]((3,14,16),(4,19,22),(13,62,71)); lvl=7; h,r-ind=1,1
    [3,3]((3,14,16),(13,62,71),(9,43,49)); lvl=7; h,r-ind=1,1
  [4,3]((4,19,21),(5,24,27),(9,43,49),(3,14,16)); lvl=6; h,r-ind=1,1
    [3,3]((5,24,27),(9,43,49),(8,38,43)); lvl=7; h,r-ind=1,1
    [3,3]((3,14,16),(9,43,49),(8,38,43)); lvl=7; h,r-ind=1,1
    [3,3]((4,19,21),(5,24,27),(8,38,43)); lvl=7; h,r-ind=1,1
    [3,3]((3,14,16),(4,19,21),(8,38,43)); lvl=7; h,r-ind=1,1
  [3,3]((9,42,49),(4,19,22),(3,14,16)); lvl=6; h,r-ind=1,1
  [3,3]((1,5,6),(9,42,49),(4,19,22)); lvl=6; h,r-ind=1,1
  [5,3]((2,10,11),(5,24,27),(10,48,55),(7,34,39),(9,43,49)); lvl=6; h,r-ind=1,1
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            [3,3]((9,43,49),(6,29,33),(5,24,27)); lvl=7; h,r-ind=1,1
            [3,3]((2,10,11),(6,29,33),(5,24,27)); lvl=7; h,r-ind=1,1
            [3,3]((10,48,55),(9,43,49),(6,29,33)); lvl=7; h,r-ind=1,1
            [3,3]((7,34,39),(10,48,55),(6,29,33)); lvl=7; h,r-ind=1,1
            [3,3]((2,10,11),(7,34,39),(6,29,33)); lvl=7; h,r-ind=1,1
          [4,3]((2,11,12),(1,5,6),(2,10,11),(7,34,39)); lvl=6; h,r-ind=1,3; alert-r-inc
            [3,3]((3,15,17),(1,5,6),(7,34,39)); lvl=7; h,r-ind=1,1
            [3,3]((3,15,17),(2,10,11),(7,34,39)); lvl=7; h,r-ind=1,1
            [3,3]((2,11,12),(3,15,17),(2,10,11)); lvl=7; h,r-ind=1,1
            [3,3]((2,11,12),(3,15,17),(1,5,6)); lvl=7; h,r-ind=1,1
          [3,3]((4,19,21),(2,10,11),(5,24,27)); lvl=6; h,r-ind=1,1
          [4,3]((1,5,6),(4,19,22),(10,48,55),(7,34,39)); lvl=6; h,r-ind=1,1
            [3,3]((4,19,22),(10,48,55),(11,53,61)); lvl=7; h,r-ind=1,1
            [3,3]((7,34,39),(10,48,55),(11,53,61)); lvl=7; h,r-ind=1,1
            [3,3]((1,5,6),(4,19,22),(11,53,61)); lvl=7; h,r-ind=1,1
            [3,3]((7,34,39),(1,5,6),(11,53,61)); lvl=7; h,r-ind=1,1
    [3,3]((2,11,13),(1,5,6),(2,11,12)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,2),(1,2,3),(2,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,14),(1,4,7),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(2,5,10),(1,2,3),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(2,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,12),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,12),(1,2,3),(1,3,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,2),(1,2,4),(3,7,12),(1,2,3)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,4),(3,7,12),(2,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(3,7,12),(2,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(1,2,3),(2,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(1,2,4),(2,4,7)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,6),(2,5,10),(1,4,7),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,11),(1,3,5),(2,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,6,11),(2,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,7),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,6,11),(1,3,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(2,7,14),(1,4,7)); lvl=3; h,r-ind=1,1
  [4,3]((2,11,13),(2,11,12),(2,20,21),(1,9,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,9,10),(1,7,8),(2,20,21),(4,31,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(2,16,17),(4,31,33)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,9),(4,35,37),(1,7,8),(2,16,17)); lvl=4; h,r-ind=1,1
        [4,3]((4,32,35),(1,7,8),(2,17,18),(2,16,17)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((1,7,8),(3,24,26),(2,16,17)); lvl=6; h,r-ind=1,1
          [3,3]((2,17,18),(3,24,26),(2,16,17)); lvl=6; h,r-ind=1,1
          [3,3]((4,32,35),(2,17,18),(3,24,26)); lvl=6; h,r-ind=1,1
          [3,3]((4,32,35),(1,7,8),(3,24,26)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,9),(4,32,35),(1,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(4,32,35),(2,17,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(2,17,18),(4,35,37)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,10),(1,8,9),(2,20,21),(4,35,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(2,18,19),(4,35,37)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,9),(5,44,48),(2,18,19),(4,37,39)); lvl=5; h,r-ind=1,1
          [4,3]((2,18,19),(6,53,57),(3,27,29),(4,37,39)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((5,45,48),(6,53,57),(3,27,29)); lvl=7; h,r-ind=1,1
            [3,3]((4,37,39),(5,45,48),(3,27,29)); lvl=7; h,r-ind=1,1
            [3,3]((2,18,19),(4,37,39),(5,45,48)); lvl=7; h,r-ind=1,1
            [3,3]((2,18,19),(5,45,48),(6,53,57)); lvl=7; h,r-ind=1,1
          [3,3]((1,8,9),(2,18,19),(6,53,57)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,9),(6,53,57),(3,27,29)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,9),(3,27,29),(5,44,48)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,10),(1,8,9),(5,44,48)); lvl=5; h,r-ind=1,1
        [4,3]((2,20,21),(1,9,10),(5,44,48),(4,37,39)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((3,27,29),(7,64,69),(1,9,10),(5,44,48)); lvl=6; h,r-ind=1,3
            [3,3]((7,64,69),(4,36,39),(1,9,10)); lvl=7; h,r-ind=1,1
            [3,3]((5,44,48),(4,36,39),(1,9,10)); lvl=7; h,r-ind=1,1
            [3,3]((3,27,29),(5,44,48),(4,36,39)); lvl=7; h,r-ind=1,1
            [3,3]((3,27,29),(7,64,69),(4,36,39)); lvl=7; h,r-ind=1,1
          [3,3]((3,27,29),(2,19,20),(7,64,69)); lvl=6; h,r-ind=2,4; alert-r-inc; optimized-h
          [3,3]((4,37,39),(3,27,29),(2,19,20)); lvl=6; h,r-ind=1,1
          [4,3]((2,20,21),(2,19,20),(7,64,69),(1,9,10)); lvl=6; h,r-ind=1,3
            [3,3]((2,19,20),(7,64,69),(3,28,30)); lvl=7; h,r-ind=1,1
            [3,3]((1,9,10),(7,64,69),(3,28,30)); lvl=7; h,r-ind=1,1
            [3,3]((2,20,21),(2,19,20),(3,28,30)); lvl=7; h,r-ind=1,1
            [3,3]((1,9,10),(2,20,21),(3,28,30)); lvl=7; h,r-ind=1,1
    [4,3]((1,6,7),(1,7,8),(2,11,12),(4,31,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(2,15,16),(4,31,33)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,8),(7,46,52),(2,15,16),(4,27,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,20,22),(2,14,15),(4,27,29)); lvl=5; h,r-ind=1,1
        [4,3]((7,48,53),(3,20,22),(4,27,30),(2,14,15)); lvl=5; h,r-ind=1,1
          [3,3]((6,41,45),(4,27,30),(3,20,22)); lvl=6; h,r-ind=1,1
          [3,3]((2,14,15),(6,41,45),(3,20,22)); lvl=6; h,r-ind=1,1
          [3,3]((7,48,53),(6,41,45),(4,27,30)); lvl=6; h,r-ind=1,1
          [3,3]((2,14,15),(7,48,53),(6,41,45)); lvl=6; h,r-ind=1,1
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    [4,3]((2,15,16),(1,7,8),(7,48,53),(2,14,15)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((3,21,23),(7,48,53),(1,7,8)); lvl=6; h,r-ind=1,1
      [3,3]((2,15,16),(3,21,23),(1,7,8)); lvl=6; h,r-ind=1,1
      [3,3]((3,21,23),(2,14,15),(7,48,53)); lvl=6; h,r-ind=1,1
      [3,3]((2,15,16),(3,21,23),(2,14,15)); lvl=6; h,r-ind=1,1
    [3,3]((1,7,8),(7,48,53),(4,27,30)); lvl=5; h,r-ind=1,1
    [3,3]((8,53,59),(3,20,22),(4,27,30)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,8),(7,46,52),(8,53,59),(4,27,30)); lvl=5; h,r-ind=1,1
      [4,3]((4,27,30),(8,53,59),(5,33,37),(10,67,75)); lvl=6; h,r-ind=1,2; alert-r-inc
        [3,3]((5,33,37),(9,60,67),(8,53,59)); lvl=7; h,r-ind=1,1
        [3,3]((4,27,30),(9,60,67),(8,53,59)); lvl=7; h,r-ind=1,1
        [3,3]((10,67,75),(5,33,37),(9,60,67)); lvl=7; h,r-ind=1,1
        [3,3]((4,27,30),(10,67,75),(9,60,67)); lvl=7; h,r-ind=1,1
      [3,3]((1,7,8),(5,33,37),(10,67,75)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,8),(7,46,52),(5,33,37)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,8),(4,27,30),(10,67,75)); lvl=6; h,r-ind=1,1
  [3,3]((1,6,7),(1,7,8),(7,46,52)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,7),(2,11,12),(7,46,52),(4,27,29)); lvl=4; h,r-ind=5,5; alert-h-inc; alert-r-inc
    [3,3]((2,13,14),(3,19,21),(4,25,27)); lvl=5; h,r-ind=1,1
    [5,3]((1,6,7),(2,11,12),(9,57,64),(3,19,21),(4,25,27)); lvl=5; h,r-ind=1,1
      [3,3]((5,31,34),(4,25,27),(2,12,13)); lvl=6; h,r-ind=1,1
      [5,3]((7,43,48),(5,31,34),(9,56,62),(10,62,69),(2,12,13)); lvl=6; h,r-ind=1,1
        [3,3]((6,37,41),(10,62,69),(7,43,48)); lvl=7; h,r-ind=1,1
        [3,3]((2,12,13),(6,37,41),(7,43,48)); lvl=7; h,r-ind=1,1
        [3,3]((5,31,34),(2,12,13),(6,37,41)); lvl=7; h,r-ind=1,1
        [3,3]((6,37,41),(9,56,62),(10,62,69)); lvl=7; h,r-ind=1,1
        [3,3]((5,31,34),(6,37,41),(9,56,62)); lvl=7; h,r-ind=1,1
      [4,3]((1,6,7),(2,11,12),(7,43,48),(2,12,13)); lvl=6; h,r-ind=1,3; alert-r-inc
        [3,3]((3,18,20),(2,12,13),(2,11,12)); lvl=7; h,r-ind=1,1
        [3,3]((1,6,7),(3,18,20),(2,11,12)); lvl=7; h,r-ind=1,1
        [3,3]((7,43,48),(3,18,20),(2,12,13)); lvl=7; h,r-ind=1,1
        [3,3]((1,6,7),(7,43,48),(3,18,20)); lvl=7; h,r-ind=1,1
      [4,3]((3,19,21),(9,56,62),(10,62,69),(4,25,28)); lvl=6; h,r-ind=1,1
        [3,3]((10,62,69),(9,56,62),(13,81,90)); lvl=7; h,r-ind=1,1
        [3,3]((3,19,21),(9,56,62),(13,81,90)); lvl=7; h,r-ind=1,1
        [3,3]((4,25,28),(3,19,21),(13,81,90)); lvl=7; h,r-ind=1,1
        [3,3]((4,25,28),(10,62,69),(13,81,90)); lvl=7; h,r-ind=1,1
      [4,3]((1,6,7),(7,43,48),(10,62,69),(4,25,28)); lvl=6; h,r-ind=1,1
        [3,3]((7,43,48),(10,62,69),(11,68,76)); lvl=7; h,r-ind=1,1
        [3,3]((4,25,28),(10,62,69),(11,68,76)); lvl=7; h,r-ind=1,1
        [3,3]((1,6,7),(4,25,28),(11,68,76)); lvl=7; h,r-ind=1,1
        [3,3]((1,6,7),(7,43,48),(11,68,76)); lvl=7; h,r-ind=1,1
      [4,3]((3,19,21),(5,31,34),(9,56,62),(4,25,27)); lvl=6; h,r-ind=1,1
        [3,3]((9,56,62),(8,50,55),(5,31,34)); lvl=7; h,r-ind=1,1
        [3,3]((4,25,27),(8,50,55),(5,31,34)); lvl=7; h,r-ind=1,1
        [3,3]((3,19,21),(4,25,27),(8,50,55)); lvl=7; h,r-ind=1,1
        [3,3]((3,19,21),(9,56,62),(8,50,55)); lvl=7; h,r-ind=1,1
      [3,3]((9,57,64),(3,19,21),(4,25,28)); lvl=6; h,r-ind=1,1
      [3,3]((1,6,7),(9,57,64),(4,25,28)); lvl=6; h,r-ind=1,1
    [5,3]((3,20,22),(4,26,29),(9,57,64),(2,13,14),(3,19,21)); lvl=5; h,r-ind=1,1
      [3,3]((8,51,57),(9,57,64),(3,19,21)); lvl=6; h,r-ind=1,1
      [4,3]((8,51,57),(7,45,50),(12,77,85),(3,19,21)); lvl=6; h,r-ind=1,2; alert-r-inc
        [3,3]((7,45,50),(12,77,85),(10,64,71)); lvl=7; h,r-ind=1,1
        [3,3]((3,19,21),(12,77,85),(10,64,71)); lvl=7; h,r-ind=1,1
        [3,3]((8,51,57),(7,45,50),(10,64,71)); lvl=7; h,r-ind=1,1
        [3,3]((3,19,21),(8,51,57),(10,64,71)); lvl=7; h,r-ind=1,1
      [3,3]((2,13,14),(12,77,85),(3,19,21)); lvl=6; h,r-ind=1,1
      [5,3]((3,20,22),(7,45,50),(14,91,101),(2,13,14),(12,77,85)); lvl=6; h,r-ind=1,1
        [3,3]((14,91,101),(10,65,72),(7,45,50)); lvl=7; h,r-ind=1,1
        [4,3]((13,84,93),(16,104,115),(10,65,72),(7,45,50)); lvl=7; h,r-ind=1,1
          [3,3]((16,104,115),(10,65,72),(23,149,165)); lvl=8; h,r-ind=1,1
          [3,3]((7,45,50),(10,65,72),(23,149,165)); lvl=8; h,r-ind=1,1
          [3,3]((13,84,93),(7,45,50),(23,149,165)); lvl=8; h,r-ind=1,1
          [3,3]((13,84,93),(16,104,115),(23,149,165)); lvl=8; h,r-ind=1,1
        [4,3]((13,84,93),(9,58,64),(15,97,107),(7,45,50)); lvl=7; h,r-ind=1,1
          [3,3]((15,97,107),(9,58,64),(22,142,157)); lvl=8; h,r-ind=1,1
          [3,3]((7,45,50),(9,58,64),(22,142,157)); lvl=8; h,r-ind=1,1
          [3,3]((13,84,93),(7,45,50),(22,142,157)); lvl=8; h,r-ind=1,1
          [3,3]((13,84,93),(15,97,107),(22,142,157)); lvl=8; h,r-ind=1,1
        [3,3]((12,77,85),(9,58,64),(7,45,50)); lvl=7; h,r-ind=1,1
        [3,3]((2,13,14),(12,77,85),(9,58,64)); lvl=7; h,r-ind=1,1
        [3,3]((2,13,14),(9,58,64),(15,97,107)); lvl=7; h,r-ind=1,1
        [4,3]((13,84,93),(6,39,43),(16,104,115),(15,97,107)); lvl=7; h,r-ind=1,1
          [3,3]((16,104,115),(19,123,136),(6,39,43)); lvl=8; h,r-ind=1,1
          [3,3]((15,97,107),(19,123,136),(6,39,43)); lvl=8; h,r-ind=1,1
          [3,3]((13,84,93),(16,104,115),(19,123,136)); lvl=8; h,r-ind=1,1
          [3,3]((15,97,107),(13,84,93),(19,123,136)); lvl=8; h,r-ind=1,1
        [3,3]((2,13,14),(6,39,43),(15,97,107)); lvl=7; h,r-ind=1,1
        [3,3]((3,20,22),(2,13,14),(6,39,43)); lvl=7; h,r-ind=1,1
        [3,3]((3,20,22),(6,39,43),(16,104,115)); lvl=7; h,r-ind=1,1
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            [3,3]((3,20,22),(16,104,115),(10,65,72)); lvl=7; h,r-ind=1,1
            [3,3]((3,20,22),(14,91,101),(10,65,72)); lvl=7; h,r-ind=1,1
          [4,3]((4,26,29),(8,51,57),(7,45,50),(14,91,101)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((7,45,50),(8,51,57),(11,71,79)); lvl=7; h,r-ind=1,1
            [3,3]((4,26,29),(8,51,57),(11,71,79)); lvl=7; h,r-ind=1,1
            [3,3]((14,91,101),(7,45,50),(11,71,79)); lvl=7; h,r-ind=1,1
            [3,3]((4,26,29),(14,91,101),(11,71,79)); lvl=7; h,r-ind=1,1
          [3,3]((3,20,22),(4,26,29),(14,91,101)); lvl=6; h,r-ind=1,1
          [3,3]((4,26,29),(8,51,57),(9,57,64)); lvl=6; h,r-ind=1,1
        [3,3]((3,20,22),(4,27,29),(2,13,14)); lvl=5; h,r-ind=1,1
        [3,3]((3,20,22),(8,53,59),(4,26,29)); lvl=5; h,r-ind=1,1
        [5,3]((1,6,7),(7,46,52),(8,53,59),(4,26,29),(9,57,64)); lvl=5; h,r-ind=1,1
          [4,3]((4,26,29),(15,97,109),(14,91,102),(5,32,36)); lvl=6; h,r-ind=1,1
            [3,3]((14,91,102),(19,123,138),(15,97,109)); lvl=7; h,r-ind=1,1
            [3,3]((5,32,36),(19,123,138),(15,97,109)); lvl=7; h,r-ind=1,1
            [3,3]((4,26,29),(14,91,102),(19,123,138)); lvl=7; h,r-ind=1,1
            [3,3]((5,32,36),(4,26,29),(19,123,138)); lvl=7; h,r-ind=1,1
          [4,3]((1,6,7),(11,71,80),(15,97,109),(5,32,36)); lvl=6; h,r-ind=1,1
            [3,3]((11,71,80),(15,97,109),(16,103,116)); lvl=7; h,r-ind=1,1
            [3,3]((5,32,36),(15,97,109),(16,103,116)); lvl=7; h,r-ind=1,1
            [3,3]((1,6,7),(11,71,80),(16,103,116)); lvl=7; h,r-ind=1,1
            [3,3]((5,32,36),(1,6,7),(16,103,116)); lvl=7; h,r-ind=1,1
          [3,3]((9,57,64),(4,26,29),(5,32,36)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,7),(9,57,64),(5,32,36)); lvl=6; h,r-ind=1,1
          [5,3]((5,33,37),(11,71,80),(15,97,109),(14,91,102),(9,59,66)); lvl=6; h,r-ind=1,1
            [3,3]((10,65,73),(15,97,109),(14,91,102)); lvl=7; h,r-ind=1,1
            [3,3]((9,59,66),(10,65,73),(14,91,102)); lvl=7; h,r-ind=1,1
            [3,3]((5,33,37),(9,59,66),(10,65,73)); lvl=7; h,r-ind=1,1
            [3,3]((11,71,80),(5,33,37),(10,65,73)); lvl=7; h,r-ind=1,1
            [3,3]((11,71,80),(10,65,73),(15,97,109)); lvl=7; h,r-ind=1,1
          [3,3]((8,53,59),(5,33,37),(9,59,66)); lvl=6; h,r-ind=1,1
          [4,3]((1,6,7),(5,33,37),(7,46,52),(11,71,80)); lvl=6; h,r-ind=1,3; alert-r-inc
            [3,3]((6,39,44),(5,33,37),(7,46,52)); lvl=7; h,r-ind=1,1
            [3,3]((1,6,7),(6,39,44),(7,46,52)); lvl=7; h,r-ind=1,1
            [3,3]((11,71,80),(6,39,44),(5,33,37)); lvl=7; h,r-ind=1,1
            [3,3]((1,6,7),(11,71,80),(6,39,44)); lvl=7; h,r-ind=1,1
          [4,3]((4,26,29),(8,53,59),(14,91,102),(9,59,66)); lvl=6; h,r-ind=1,1
            [3,3]((8,53,59),(13,85,95),(9,59,66)); lvl=7; h,r-ind=1,1
            [3,3]((14,91,102),(13,85,95),(9,59,66)); lvl=7; h,r-ind=1,1
            [3,3]((4,26,29),(14,91,102),(13,85,95)); lvl=7; h,r-ind=1,1
            [3,3]((4,26,29),(8,53,59),(13,85,95)); lvl=7; h,r-ind=1,1
    [3,3]((2,11,13),(1,6,7),(2,11,12)); lvl=3; h,r-ind=1,1
  [5,3]((4,22,33),(1,7,10),(1,6,9),(2,11,13),(1,9,10)); lvl=2; h,r-ind=1,1
    [5,3]((2,13,17),(1,8,10),(4,25,35),(3,19,27),(1,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,19,27),(2,13,18),(1,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,27,37),(2,13,18),(1,7,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,10),(1,7,9),(4,27,37),(1,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,19),(1,7,9),(4,27,37)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,19),(1,7,10),(4,27,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,10),(2,14,19),(1,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,10),(2,14,19),(1,7,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(4,27,37),(2,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((4,25,35),(3,19,27),(2,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,26),(4,25,35),(2,13,18)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,17),(1,7,9),(3,19,26),(2,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,26,35),(2,13,18),(1,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,17),(4,26,35),(1,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,26),(4,26,35),(2,13,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,17),(3,19,26),(4,26,35)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,9),(3,19,27),(1,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,8),(2,13,17),(1,9,10),(1,8,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,9),(1,9,10),(1,7,9),(1,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,10),(1,8,10),(2,16,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(1,8,10),(2,16,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(1,7,9),(2,16,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(1,9,10),(2,16,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,8),(1,8,9),(1,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(1,7,9),(2,13,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,9),(2,12,17),(4,25,35),(3,19,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,17),(4,25,35),(5,31,44)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,27),(4,25,35),(5,31,44)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(3,19,27),(5,31,44)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(2,12,17),(5,31,44)); lvl=4; h,r-ind=1,1
    [4,3]((4,22,33),(2,11,16),(1,6,9),(2,12,17)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,6,9),(2,12,17),(3,17,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,16),(2,12,17),(3,17,25)); lvl=4; h,r-ind=1,1
      [3,3]((4,22,33),(1,6,9),(3,17,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,16),(4,22,33),(3,17,25)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,8),(2,13,17),(2,12,17),(4,25,35)); lvl=3; h,r-ind=1,1
      [4,3]((2,12,17),(6,37,51),(3,19,26),(4,25,35)); lvl=4; h,r-ind=1,2; alert-r-inc
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      [3,3]((5,31,43),(3,19,26),(6,37,51)); lvl=5; h,r-ind=1,1
      [3,3]((2,12,17),(5,31,43),(6,37,51)); lvl=5; h,r-ind=1,1
      [3,3]((5,31,43),(4,25,35),(3,19,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,12,17),(5,31,43),(4,25,35)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,8),(2,12,17),(6,37,51)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,8),(6,37,51),(2,13,17),(3,19,26)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,25,34),(6,37,51),(3,19,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,17),(4,25,34),(3,19,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(2,13,17),(4,25,34)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(4,25,34),(6,37,51)); lvl=5; h,r-ind=1,1
  [4,3]((2,11,15),(2,11,16),(1,6,8),(2,12,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(3,17,24),(2,12,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,16),(3,17,24),(2,12,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,15),(1,6,8),(3,17,24)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,16),(2,11,15),(3,17,24)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,7),(1,7,8),(1,6,8),(2,13,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,16),(1,7,8),(2,13,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,16),(1,6,8),(2,13,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(2,13,16),(1,6,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(2,13,16),(1,7,8)); lvl=4; h,r-ind=1,1
  [4,3]((2,11,15),(2,11,13),(1,6,7),(1,6,8)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,14),(2,11,13),(1,6,7),(4,23,29)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,11,13),(3,17,21),(1,6,7)); lvl=5; h,r-ind=1,1
      [3,3]((4,23,29),(3,17,21),(1,6,7)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,14),(4,23,29),(3,17,21)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,14),(2,11,13),(3,17,21)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,8),(1,6,7),(4,23,29)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,8),(2,11,15),(2,11,14),(4,23,29)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,11,14),(2,11,15),(3,17,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,15),(3,17,22)); lvl=5; h,r-ind=1,1
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[4,3]((1,6,11),(2,15,22),(1,7,10),(1,6,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,7,11),(2,15,22),(1,7,10),(4,27,41)); lvl=3; h,r-ind=1,3; alert-r-inc
    [3,3]((2,14,21),(2,15,22),(1,7,10)); lvl=4; h,r-ind=1,1
    [3,3]((4,27,41),(2,14,21),(1,7,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,11),(4,27,41),(2,14,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,11),(2,14,21),(2,15,22)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,9),(2,13,20),(1,7,10),(4,27,41)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,20),(4,27,41),(3,20,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(4,27,41),(3,20,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(2,13,20),(3,20,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(1,6,9),(3,20,30)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,10),(1,6,9),(2,13,20)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,10),(2,13,20),(1,7,11),(4,27,41)); lvl=3; h,r-ind=1,1
    [3,3]((3,20,31),(2,13,20),(4,27,41)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,11),(3,20,31),(4,27,41)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(3,20,31),(2,13,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,11),(1,6,10),(3,20,31)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,11),(1,6,10),(1,7,11)); lvl=3; h,r-ind=1,1
[3,3]((1,10,11),(2,20,21),(1,9,10)); lvl=2; h,r-ind=1,1
[4,3]((2,15,22),(1,7,10),(1,10,11),(1,9,10)); lvl=2; h,r-ind=1,1
  [4,3]((1,8,11),(2,17,22),(1,7,10),(1,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,10),(2,17,22),(2,16,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,11),(2,17,22),(2,16,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,11),(1,7,10),(2,16,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(1,8,10),(2,16,21)); lvl=4; h,r-ind=1,1
  [4,3]((1,10,11),(2,17,22),(1,9,10),(1,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,9,11),(1,8,10),(3,26,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,10),(1,8,10),(3,26,31)); lvl=4; h,r-ind=1,1
    [4,3]((1,10,11),(1,9,10),(1,9,11),(3,26,31)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,18,21),(1,9,10),(3,26,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,11),(2,18,21),(3,26,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,10,11),(2,18,21),(1,9,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,11),(1,10,11),(2,18,21)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,11),(2,17,22),(1,8,10)); lvl=4; h,r-ind=1,1
  [3,3]((2,15,22),(1,8,11),(1,7,10)); lvl=3; h,r-ind=1,1
[5,3]((1,4,7),(4,22,33),(1,5,8),(2,11,13),(1,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,8),(4,19,29),(3,14,22),(2,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,22),(4,19,29),(5,24,37)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,15),(4,19,29),(5,24,37)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(2,10,15),(5,24,37)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(3,14,22),(5,24,37)); lvl=4; h,r-ind=1,1
  [4,3]((4,22,33),(2,11,16),(1,5,8),(2,10,15)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((1,5,8),(3,16,24),(2,10,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,16),(3,16,24),(2,10,15)); lvl=4; h,r-ind=1,1
    [3,3]((4,22,33),(1,5,8),(3,16,24)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,16),(4,22,33),(3,16,24)); lvl=4; h,r-ind=1,1
  [4,3]((2,9,13),(1,5,7),(4,19,29),(2,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(2,10,15),(6,29,43)); lvl=4; h,r-ind=1,1
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      [4,3]((3,14,21),(4,19,29),(2,10,15),(6,29,43)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,24,36),(4,19,29),(2,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((6,29,43),(5,24,36),(2,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,21),(6,29,43),(5,24,36)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,21),(5,24,36),(4,19,29)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,13),(3,14,21),(1,5,7),(6,29,43)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,21),(6,29,43),(4,19,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(6,29,43),(4,19,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,13),(3,14,21),(4,19,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(2,9,13),(4,19,28)); lvl=5; h,r-ind=1,1
    [4,3]((2,11,16),(2,11,15),(1,5,7),(2,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,23),(2,11,15),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,15),(3,16,23),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,16),(2,10,15),(3,16,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,16),(3,16,23),(2,11,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,6),(1,4,5),(2,9,13),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,13),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(2,9,13),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,7),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,5),(2,9,12)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,15),(2,11,13),(1,5,6),(1,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,14),(2,11,13),(1,5,6),(4,21,27)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,6),(3,16,20),(2,11,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,14),(3,16,20),(2,11,13)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,27),(2,11,14),(3,16,20)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,27),(1,5,6),(3,16,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(1,5,6),(4,21,27)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,7),(2,11,15),(2,11,14),(4,21,27)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,14),(2,11,15),(3,16,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(2,11,15),(3,16,21)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,27),(2,11,14),(3,16,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(4,21,27),(3,16,21)); lvl=5; h,r-ind=1,1
    [5,3]((1,3,5),(2,9,13),(1,4,7),(4,19,29),(3,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,29),(3,14,21),(2,9,14)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,6),(2,9,13),(3,14,21),(2,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,13),(3,14,21),(4,18,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,14),(3,14,21),(4,18,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(2,9,13),(4,18,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,14),(1,4,6),(4,18,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(4,17,27),(2,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(4,17,27),(2,9,14)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,5),(1,4,6),(1,4,7),(4,17,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,13),(1,4,6),(4,17,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,13),(1,4,7),(4,17,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(2,8,13),(1,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(2,8,13),(1,4,6)); lvl=5; h,r-ind=1,1
      [3,3]((3,14,22),(4,19,29),(2,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,14,22),(2,9,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(1,4,7),(3,14,22)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(1,3,5),(1,4,5),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,6),(2,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,4),(1,4,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(1,3,4),(1,3,5),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,6),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(1,4,6),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(1,2,3),(2,6,9)); lvl=5; h,r-ind=1,1
  [4,3]((1,5,10),(2,7,14),(1,4,7),(1,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,8),(4,17,31),(1,4,7),(2,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,17,31),(1,4,7),(3,13,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(1,4,7),(3,13,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(4,17,31),(3,13,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(1,5,8),(3,13,23)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,9),(1,4,8),(4,17,31),(2,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,24),(1,4,8),(4,17,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(3,13,24),(4,17,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(1,5,9),(3,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(3,13,24),(1,4,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(1,5,9),(2,9,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,10),(1,5,9),(1,4,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,8),(4,17,31),(2,7,14),(1,4,7)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,8,15),(1,4,7),(4,17,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(2,8,15),(4,17,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,14),(2,8,15),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(2,7,14),(2,8,15)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,22),(1,5,10),(1,6,11)); lvl=2; h,r-ind=1,1
  [5,3]((1,5,10),(1,6,11),(4,22,33),(1,5,8),(1,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((4,22,37),(1,6,9),(1,6,10),(2,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,10),(1,6,9),(4,23,37)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,18),(2,11,17),(1,6,9),(4,23,37)); lvl=4; h,r-ind=1,2; alert-r-inc
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          [3,3]((2,11,17),(3,17,27),(1,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((4,23,37),(3,17,27),(1,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,18),(4,23,37),(3,17,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,18),(2,11,17),(3,17,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,18),(1,6,10),(4,23,37)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,18),(4,22,37),(1,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,22,33),(1,6,9),(2,11,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,9),(4,22,37),(1,5,8),(2,11,17)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,8),(4,21,35),(2,11,18),(2,11,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,21,35),(3,16,26),(2,11,18)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,17),(3,16,26),(2,11,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,8),(2,11,17),(3,16,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,8),(4,21,35),(3,16,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(1,5,8),(4,21,35)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(4,21,35),(2,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(4,22,37),(2,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((4,22,33),(1,5,8),(2,11,17)); lvl=3; h,r-ind=1,1
      [5,3]((1,5,9),(1,5,10),(4,22,37),(1,6,11),(1,6,10)); lvl=3; h,r-ind=1,1
        [3,3]((3,17,30),(1,6,10),(1,6,11)); lvl=4; h,r-ind=1,1
        [5,3]((1,5,10),(3,17,30),(3,16,29),(4,22,39),(1,6,11)); lvl=4; h,r-ind=1,1
          [3,3]((2,11,20),(4,22,39),(3,17,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(2,11,20),(3,17,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(1,6,11),(2,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,29),(2,11,20),(4,22,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(3,16,29),(2,11,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(1,5,10),(3,16,29)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,9),(2,11,19),(3,16,29),(4,22,39)); lvl=4; h,r-ind=1,1
          [3,3]((2,11,19),(4,22,39),(5,27,48)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,29),(4,22,39),(5,27,48)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(2,11,19),(5,27,48)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,29),(1,5,9),(5,27,48)); lvl=5; h,r-ind=1,1
        [4,3]((2,11,19),(3,17,30),(4,22,39),(1,6,10)); lvl=4; h,r-ind=1,1
          [3,3]((5,28,49),(3,17,30),(4,22,39)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,19),(5,28,49),(4,22,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,10),(2,11,19),(5,28,49)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,10),(5,28,49),(3,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,19),(4,22,37),(1,6,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(2,11,19),(4,22,37)); lvl=4; h,r-ind=1,1
[3,3]((0,1,0),(1,10,11),(2,20,21)); lvl=1; h,r-ind=1,1
[3,3]((1,10,21),(0,1,0),(1,10,11)); lvl=1; h,r-ind=10,10; optimized-h
[3,3]((1,10,21),(2,11,22),(1,10,11)); lvl=1; h,r-ind=90,90; alert-h-inc
  [3,3]((1,6,12),(2,15,27),(2,15,30)); lvl=2; h,r-ind=9,3; optimized-h
  [4,3]((1,10,16),(1,10,21),(2,15,27),(2,15,30)); lvl=2; h,r-ind=5,5
    [4,3]((1,8,16),(2,16,31),(2,15,30),(4,30,57)); lvl=3; h,r-ind=1,1
      [3,3]((3,23,44),(4,30,57),(2,15,29)); lvl=4; h,r-ind=1,1
      [4,3]((4,31,60),(7,54,105),(3,23,44),(2,15,29)); lvl=4; h,r-ind=1,1
        [3,3]((7,54,105),(2,15,29),(6,46,89)); lvl=5; h,r-ind=1,1
        [3,3]((3,23,44),(2,15,29),(6,46,89)); lvl=5; h,r-ind=1,1
        [3,3]((4,31,60),(7,54,105),(6,46,89)); lvl=5; h,r-ind=1,1
        [3,3]((3,23,44),(4,31,60),(6,46,89)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,16),(7,54,105),(2,15,30),(2,15,29)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,23,45),(2,15,29),(2,15,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,16),(3,23,45),(2,15,30)); lvl=5; h,r-ind=1,1
        [3,3]((3,23,45),(7,54,105),(2,15,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,16),(3,23,45),(7,54,105)); lvl=5; h,r-ind=1,1
      [3,3]((2,16,31),(4,31,60),(3,23,44)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,16),(2,16,31),(4,31,60),(7,54,105)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,31),(5,39,76),(4,31,60)); lvl=5; h,r-ind=1,1
        [3,3]((7,54,105),(5,39,76),(4,31,60)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,16),(7,54,105),(5,39,76)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,16),(2,16,31),(5,39,76)); lvl=5; h,r-ind=1,1
    [4,3]((2,15,27),(1,8,14),(2,16,31),(4,30,57)); lvl=3; h,r-ind=3,1
      [4,3]((2,15,27),(2,15,28),(1,8,15),(1,8,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,23,42),(1,8,15),(2,15,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,27),(3,23,42),(2,15,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(2,15,27),(3,23,42)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(3,23,42),(1,8,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,28),(3,23,44),(1,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,44),(2,16,31),(1,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,28),(4,30,57),(3,23,44)); lvl=4; h,r-ind=1,1
    [4,3]((2,17,29),(1,8,14),(4,34,65),(2,16,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,15),(3,25,48),(2,16,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,32),(1,8,15),(3,25,48)); lvl=4; h,r-ind=1,1
      [3,3]((4,34,65),(2,17,32),(3,25,48)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,32),(2,17,31),(1,8,15)); lvl=4; h,r-ind=1,1
      [4,3]((2,17,29),(2,17,31),(1,8,15),(1,8,14)); lvl=4; h,r-ind=1,1
        [4,3]((2,17,30),(2,17,31),(1,8,15),(4,33,59)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,17,31),(3,25,45),(1,8,15)); lvl=6; h,r-ind=1,1
          [3,3]((4,33,59),(3,25,45),(1,8,15)); lvl=6; h,r-ind=1,1
          [3,3]((2,17,30),(4,33,59),(3,25,45)); lvl=6; h,r-ind=1,1
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      [3,3]((2,17,30),(2,17,31),(3,25,45)); lvl=6; h,r-ind=1,1
    [3,3]((1,8,14),(1,8,15),(4,33,59)); lvl=5; h,r-ind=1,1
    [4,3]((1,8,14),(2,17,29),(2,17,30),(4,33,59)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,17,29),(3,25,44),(2,17,30)); lvl=6; h,r-ind=1,1
      [3,3]((4,33,59),(3,25,44),(2,17,30)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,14),(2,17,29),(3,25,44)); lvl=6; h,r-ind=1,1
      [3,3]((4,33,59),(1,8,14),(3,25,44)); lvl=6; h,r-ind=1,1
[4,3]((1,10,16),(2,20,37),(2,17,29),(4,34,65)); lvl=3; h,r-ind=3,1
  [3,3]((1,9,17),(2,17,32),(4,34,65)); lvl=4; h,r-ind=1,1
  [4,3]((3,27,49),(1,9,17),(4,35,64),(2,17,32)); lvl=4; h,r-ind=2,1
    [4,3]((2,18,33),(1,9,17),(3,26,48),(2,17,32)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,32),(1,9,17),(4,35,65)); lvl=6; h,r-ind=1,1
      [3,3]((2,18,33),(1,9,17),(4,35,65)); lvl=6; h,r-ind=1,1
      [3,3]((3,26,48),(2,18,33),(4,35,65)); lvl=6; h,r-ind=1,1
      [3,3]((3,26,48),(2,17,32),(4,35,65)); lvl=6; h,r-ind=1,1
    [4,3]((4,35,64),(3,27,49),(2,18,33),(3,26,48)); lvl=5; h,r-ind=1,1
      [3,3]((3,27,49),(2,18,33),(6,53,97)); lvl=6; h,r-ind=1,1
      [3,3]((3,26,48),(2,18,33),(6,53,97)); lvl=6; h,r-ind=1,1
      [3,3]((4,35,64),(3,26,48),(6,53,97)); lvl=6; h,r-ind=1,1
      [3,3]((4,35,64),(3,27,49),(6,53,97)); lvl=6; h,r-ind=1,1
  [3,3]((4,35,64),(2,17,31),(2,17,32)); lvl=4; h,r-ind=2,2; alert-r-inc; optimized-h
  [5,3]((1,9,15),(3,27,49),(4,35,64),(2,17,29),(2,17,31)); lvl=4; h,r-ind=1,1
    [3,3]((7,61,111),(2,17,31),(4,35,64)); lvl=5; h,r-ind=1,1
    [4,3]((3,27,49),(1,9,16),(7,61,111),(4,35,64)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((5,44,80),(7,61,111),(1,9,16)); lvl=6; h,r-ind=1,1
      [3,3]((3,27,49),(5,44,80),(1,9,16)); lvl=6; h,r-ind=1,1
      [3,3]((4,35,64),(3,27,49),(5,44,80)); lvl=6; h,r-ind=1,1
      [3,3]((4,35,64),(5,44,80),(7,61,111)); lvl=6; h,r-ind=1,1
    [3,3]((1,9,16),(7,61,111),(2,17,31)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,16),(2,17,31),(2,17,30)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,15),(1,9,16),(2,17,29),(2,17,30)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,29),(2,17,30),(3,26,45)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,16),(2,17,30),(3,26,45)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,15),(1,9,16),(3,26,45)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,15),(2,17,29),(3,26,45)); lvl=6; h,r-ind=1,1
  [5,3]((1,10,16),(2,20,35),(2,19,34),(1,9,15),(3,27,49)); lvl=4; h,r-ind=1,1
    [4,3]((1,10,16),(1,10,17),(1,9,16),(1,9,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,10,17),(1,9,16),(2,19,32)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,15),(1,9,16),(2,19,32)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,16),(1,10,17),(2,19,32)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,15),(1,10,16),(2,19,32)); lvl=6; h,r-ind=1,1
    [4,3]((1,10,17),(3,29,51),(6,57,101),(1,9,16)); lvl=5; h,r-ind=1,1
      [3,3]((4,38,67),(3,29,51),(6,57,101)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,16),(4,38,67),(6,57,101)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,17),(4,38,67),(3,29,51)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,16),(1,10,17),(4,38,67)); lvl=6; h,r-ind=1,1
    [4,3]((6,57,101),(2,19,34),(3,27,49),(1,9,16)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((3,28,50),(2,19,34),(3,27,49)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,16),(3,28,50),(3,27,49)); lvl=6; h,r-ind=1,1
      [3,3]((6,57,101),(3,28,50),(2,19,34)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,16),(6,57,101),(3,28,50)); lvl=6; h,r-ind=1,1
    [4,3]((2,20,35),(3,29,51),(6,57,101),(2,19,34)); lvl=5; h,r-ind=1,1
      [3,3]((3,29,51),(6,57,101),(5,48,85)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,34),(6,57,101),(5,48,85)); lvl=6; h,r-ind=1,1
      [3,3]((2,20,35),(3,29,51),(5,48,85)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,34),(2,20,35),(5,48,85)); lvl=6; h,r-ind=1,1
    [3,3]((2,20,35),(1,10,17),(3,29,51)); lvl=5; h,r-ind=1,1
  [4,3]((1,10,18),(2,19,34),(3,27,49),(1,9,17)); lvl=4; h,r-ind=1,1
    [4,3]((2,19,34),(5,47,85),(3,27,49),(2,18,33)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((4,37,67),(3,27,49),(2,18,33)); lvl=6; h,r-ind=1,1
      [3,3]((5,47,85),(4,37,67),(2,18,33)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,34),(5,47,85),(4,37,67)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,34),(4,37,67),(3,27,49)); lvl=6; h,r-ind=1,1
    [4,3]((1,9,17),(1,10,18),(5,47,85),(2,18,33)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,28,51),(5,47,85),(1,10,18)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,17),(3,28,51),(1,10,18)); lvl=6; h,r-ind=1,1
      [3,3]((2,18,33),(1,9,17),(3,28,51)); lvl=6; h,r-ind=1,1
      [3,3]((2,18,33),(3,28,51),(5,47,85)); lvl=6; h,r-ind=1,1
    [3,3]((1,10,18),(2,19,34),(5,47,85)); lvl=5; h,r-ind=1,1
  [3,3]((1,10,18),(2,20,37),(1,9,17)); lvl=4; h,r-ind=1,1
  [3,3]((1,10,18),(2,20,35),(2,19,34)); lvl=4; h,r-ind=1,1
[4,3]((1,8,16),(4,34,65),(2,16,31),(2,17,34)); lvl=3; h,r-ind=1,1
  [4,3]((2,17,33),(7,58,113),(3,25,48),(4,33,64)); lvl=4; h,r-ind=1,1
    [3,3]((6,50,97),(4,33,64),(7,58,113)); lvl=5; h,r-ind=1,1
    [3,3]((2,17,33),(6,50,97),(7,58,113)); lvl=5; h,r-ind=1,1
    [3,3]((6,50,97),(3,25,48),(4,33,64)); lvl=5; h,r-ind=1,1
    [3,3]((2,17,33),(6,50,97),(3,25,48)); lvl=5; h,r-ind=1,1
  [3,3]((2,16,31),(3,25,48),(4,33,64)); lvl=4; h,r-ind=1,1
  [4,3]((1,8,16),(7,58,113),(2,16,31),(4,33,64)); lvl=4; h,r-ind=1,1
    [3,3]((5,41,80),(4,33,64),(7,58,113)); lvl=5; h,r-ind=1,1
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      [3,3]((1,8,16),(5,41,80),(7,58,113)); lvl=5; h,r-ind=1,1
      [3,3]((2,16,31),(1,8,16),(5,41,80)); lvl=5; h,r-ind=1,1
      [3,3]((2,16,31),(5,41,80),(4,33,64)); lvl=5; h,r-ind=1,1
    [4,3]((1,8,16),(2,17,34),(2,17,33),(7,58,113)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((3,25,49),(2,17,33),(2,17,34)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,16),(3,25,49),(2,17,34)); lvl=5; h,r-ind=1,1
      [3,3]((7,58,113),(3,25,49),(2,17,33)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,16),(7,58,113),(3,25,49)); lvl=5; h,r-ind=1,1
    [3,3]((2,17,33),(4,34,65),(3,25,48)); lvl=4; h,r-ind=1,1
  [3,3]((1,10,21),(1,8,16),(2,17,34)); lvl=3; h,r-ind=1,1
  [4,3]((2,20,37),(1,10,21),(4,34,65),(2,17,34)); lvl=3; h,r-ind=3,3
    [4,3]((2,17,33),(3,27,53),(2,17,34),(1,9,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,27,53),(3,26,51),(1,9,18)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,34),(3,26,51),(1,9,18)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,33),(2,17,34),(3,26,51)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,33),(3,27,53),(3,26,51)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,21),(2,17,34),(1,9,18)); lvl=4; h,r-ind=1,1
    [5,3]((1,10,21),(2,20,39),(2,19,37),(3,27,53),(1,9,18)); lvl=4; h,r-ind=1,1
      [5,3]((2,19,37),(6,57,112),(8,75,148),(3,27,53),(4,37,73)); lvl=5; h,r-ind=1,1
        [3,3]((8,75,148),(3,28,55),(4,37,73)); lvl=6; h,r-ind=1,1
        [3,3]((3,27,53),(3,28,55),(4,37,73)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,37),(3,27,53),(3,28,55)); lvl=6; h,r-ind=1,1
        [3,3]((8,75,148),(7,66,130),(3,28,55)); lvl=6; h,r-ind=1,1
        [3,3]((6,57,112),(7,66,130),(3,28,55)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,37),(6,57,112),(3,28,55)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,18),(3,27,53),(4,37,73)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,18),(5,47,93),(8,75,148),(4,37,73)); lvl=5; h,r-ind=1,1
        [3,3]((5,47,93),(8,75,148),(9,84,166)); lvl=6; h,r-ind=1,1
        [3,3]((4,37,73),(8,75,148),(9,84,166)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,18),(4,37,73),(9,84,166)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,18),(5,47,93),(9,84,166)); lvl=6; h,r-ind=1,1
      [4,3]((1,10,20),(1,10,21),(1,9,18),(5,47,93)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((1,10,21),(2,19,38),(1,9,18)); lvl=6; h,r-ind=1,1
        [3,3]((5,47,93),(2,19,38),(1,9,18)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,20),(5,47,93),(2,19,38)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,20),(1,10,21),(2,19,38)); lvl=6; h,r-ind=1,1
      [5,3]((1,10,20),(3,29,57),(6,57,112),(5,47,93),(8,75,148)); lvl=5; h,r-ind=1,1
        [3,3]((4,38,75),(8,75,148),(7,66,130)); lvl=6; h,r-ind=1,1
        [3,3]((6,57,112),(4,38,75),(7,66,130)); lvl=6; h,r-ind=1,1
        [3,3]((3,29,57),(6,57,112),(4,38,75)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,20),(3,29,57),(4,38,75)); lvl=6; h,r-ind=1,1
        [3,3]((5,47,93),(4,38,75),(8,75,148)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,20),(5,47,93),(4,38,75)); lvl=6; h,r-ind=1,1
      [3,3]((2,20,39),(1,10,20),(3,29,57)); lvl=5; h,r-ind=1,1
      [4,3]((2,20,39),(2,19,37),(3,29,57),(6,57,112)); lvl=5; h,r-ind=1,1
        [3,3]((5,48,94),(2,19,37),(6,57,112)); lvl=6; h,r-ind=1,1
        [3,3]((5,48,94),(3,29,57),(6,57,112)); lvl=6; h,r-ind=1,1
        [3,3]((2,20,39),(5,48,94),(3,29,57)); lvl=6; h,r-ind=1,1
        [3,3]((2,20,39),(5,48,94),(2,19,37)); lvl=6; h,r-ind=1,1
    [3,3]((1,10,19),(2,20,39),(2,19,37)); lvl=4; h,r-ind=1,1
    [4,3]((1,9,17),(1,10,19),(2,19,37),(3,27,53)); lvl=4; h,r-ind=1,1
      [3,3]((1,10,19),(5,47,91),(2,19,37)); lvl=5; h,r-ind=1,1
      [4,3]((2,18,35),(3,27,53),(5,47,91),(2,19,37)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,37,72),(3,27,53),(2,19,37)); lvl=6; h,r-ind=1,1
        [3,3]((5,47,91),(4,37,72),(2,19,37)); lvl=6; h,r-ind=1,1
        [3,3]((2,18,35),(5,47,91),(4,37,72)); lvl=6; h,r-ind=1,1
        [3,3]((2,18,35),(4,37,72),(3,27,53)); lvl=6; h,r-ind=1,1
      [4,3]((1,9,17),(2,18,35),(1,10,19),(5,47,91)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,18,35),(3,28,54),(5,47,91)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,19),(3,28,54),(5,47,91)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(1,10,19),(3,28,54)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(2,18,35),(3,28,54)); lvl=6; h,r-ind=1,1
    [3,3]((1,9,17),(1,10,19),(2,20,37)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,17),(2,17,33),(3,27,53)); lvl=4; h,r-ind=2,2; optimized-h
    [3,3]((1,9,17),(4,34,65),(2,17,33)); lvl=4; h,r-ind=1,1
  [3,3]((1,10,21),(1,8,16),(2,15,30)); lvl=3; h,r-ind=1,1
[3,3]((1,10,21),(1,6,12),(2,15,30)); lvl=2; h,r-ind=3,3; optimized-h
[3,3]((2,11,22),(1,10,21),(1,6,12)); lvl=2; h,r-ind=1,1
[4,3]((1,6,11),(2,15,22),(1,6,12),(2,15,27)); lvl=2; h,r-ind=3,1
  [4,3]((1,7,11),(1,7,12),(2,15,22),(4,30,49)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,12),(5,36,58),(2,15,24),(4,30,47)); lvl=4; h,r-ind=1,1
      [4,3]((6,44,71),(3,22,35),(2,15,24),(4,30,47)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,15,24),(4,30,47),(5,37,59)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,35),(4,30,47),(5,37,59)); lvl=6; h,r-ind=1,1
        [3,3]((6,44,71),(2,15,24),(5,37,59)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,35),(6,44,71),(5,37,59)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,12),(6,44,71),(3,22,35)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,12),(3,22,35),(5,36,58)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,12),(6,44,71),(2,15,24)); lvl=5; h,r-ind=1,1
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        [3,3]((3,22,35),(2,15,23),(4,30,47)); lvl=5; h,r-ind=1,1
        [3,3]((3,22,35),(2,15,23),(7,51,80)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,7,11),(2,15,23),(2,15,22),(7,51,80)); lvl=5; h,r-ind=1,3
          [3,3]((3,22,34),(2,15,23),(2,15,22)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,11),(3,22,34),(2,15,22)); lvl=6; h,r-ind=1,1
          [3,3]((7,51,80),(3,22,34),(2,15,23)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,11),(7,51,80),(3,22,34)); lvl=6; h,r-ind=1,1
        [4,3]((1,7,11),(5,36,58),(3,22,35),(7,51,80)); lvl=5; h,r-ind=1,3
          [3,3]((4,29,46),(3,22,35),(5,36,58)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,11),(4,29,46),(5,36,58)); lvl=6; h,r-ind=1,1
          [3,3]((7,51,80),(4,29,46),(3,22,35)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,11),(7,51,80),(4,29,46)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,12),(1,7,11),(5,36,58)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(4,30,49),(2,15,24)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,12),(1,7,13),(2,15,27),(4,30,49)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,13),(5,36,63),(2,15,27),(4,30,51)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,15,26),(3,22,38),(7,51,90)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,7,13),(2,15,27),(2,15,26),(7,51,90)); lvl=5; h,r-ind=1,3
          [3,3]((3,22,39),(2,15,26),(2,15,27)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,13),(3,22,39),(2,15,27)); lvl=6; h,r-ind=1,1
          [3,3]((3,22,39),(7,51,90),(2,15,26)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,13),(3,22,39),(7,51,90)); lvl=6; h,r-ind=1,1
        [4,3]((1,7,13),(5,36,63),(3,22,38),(7,51,90)); lvl=5; h,r-ind=1,3
          [3,3]((3,22,38),(4,29,51),(5,36,63)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,13),(4,29,51),(5,36,63)); lvl=6; h,r-ind=1,1
          [3,3]((7,51,90),(3,22,38),(4,29,51)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,13),(7,51,90),(4,29,51)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,26),(3,22,38),(4,30,51)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,12),(2,15,25),(5,36,63),(4,30,51)); lvl=4; h,r-ind=1,1
        [4,3]((6,44,75),(3,22,38),(2,15,25),(4,30,51)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,37,63),(2,15,25),(4,30,51)); lvl=6; h,r-ind=1,1
          [3,3]((5,37,63),(3,22,38),(4,30,51)); lvl=6; h,r-ind=1,1
          [3,3]((6,44,75),(5,37,63),(3,22,38)); lvl=6; h,r-ind=1,1
          [3,3]((6,44,75),(5,37,63),(2,15,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,12),(6,44,75),(3,22,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,12),(3,22,38),(5,36,63)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,12),(6,44,75),(2,15,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,12),(2,15,25),(4,30,49)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(1,7,13),(5,36,63)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,11),(1,7,11),(1,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,11),(1,7,12),(1,6,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,12),(1,7,13),(1,6,12)); lvl=3; h,r-ind=1,1
  [4,3]((1,10,11),(1,10,16),(2,15,22),(2,15,27)); lvl=2; h,r-ind=25,5
    [4,3]((2,16,25),(2,15,27),(1,8,14),(4,30,49)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,13),(1,8,14),(2,15,27),(4,30,51)); lvl=4; h,r-ind=1,1
        [4,3]((4,31,53),(1,8,14),(2,15,26),(2,15,27)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,23,40),(2,15,26),(2,15,27)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,14),(3,23,40),(2,15,27)); lvl=6; h,r-ind=1,1
          [3,3]((4,31,53),(3,23,40),(2,15,26)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,14),(4,31,53),(3,23,40)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,13),(4,31,53),(2,15,26)); lvl=5; h,r-ind=1,1
        [3,3]((4,30,51),(1,8,13),(2,15,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,13),(4,31,53),(1,8,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,13),(2,15,25),(4,30,51)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,13),(2,15,25),(3,23,37)); lvl=4; h,r-ind=1,1
      [3,3]((4,30,49),(2,15,25),(3,23,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,16,25),(1,8,13),(3,23,37)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,11),(2,16,25),(2,15,22),(4,30,49)); lvl=3; h,r-ind=1,1
      [3,3]((3,23,37),(2,15,24),(4,30,49)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,12),(3,23,37),(2,15,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,12),(4,30,47),(2,15,24)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,11),(1,8,12),(2,15,22),(4,30,47)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,12),(2,15,23),(4,30,47)); lvl=5; h,r-ind=1,1
        [3,3]((4,31,46),(1,8,12),(2,15,23)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,11),(4,31,46),(2,15,22),(2,15,23)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,23,34),(2,15,22),(2,15,23)); lvl=6; h,r-ind=1,1
          [3,3]((4,31,46),(3,23,34),(2,15,23)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,11),(4,31,46),(3,23,34)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,11),(3,23,34),(2,15,22)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,11),(4,31,46),(1,8,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,12),(2,16,25),(3,23,37)); lvl=4; h,r-ind=1,1
    [4,3]((2,17,29),(2,16,25),(4,34,51),(1,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,13),(2,16,25),(3,25,38)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,26),(1,8,13),(3,25,38)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,26),(4,34,51),(3,25,38)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,27),(2,17,26),(1,8,13)); lvl=4; h,r-ind=1,1
      [4,3]((2,17,29),(2,17,27),(1,8,13),(1,8,14)); lvl=4; h,r-ind=1,1
        [4,3]((2,17,28),(2,17,27),(1,8,13),(4,33,55)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((1,8,13),(2,17,27),(3,25,41)); lvl=6; h,r-ind=1,1
          [3,3]((2,17,28),(2,17,27),(3,25,41)); lvl=6; h,r-ind=1,1
```

```
        [3,3]((4,33,55),(1,8,13),(3,25,41)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,28),(4,33,55),(3,25,41)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,14),(1,8,13),(4,33,55)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,14),(2,17,29),(2,17,28),(4,33,55)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,17,28),(2,17,29),(3,25,42)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,14),(2,17,29),(3,25,42)); lvl=6; h,r-ind=1,1
        [3,3]((4,33,55),(2,17,28),(3,25,42)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,14),(4,33,55),(3,25,42)); lvl=6; h,r-ind=1,1
  [4,3]((1,10,16),(2,20,27),(2,17,29),(4,34,51)); lvl=3; h,r-ind=3,1
    [3,3]((2,17,26),(4,35,54),(2,17,27)); lvl=4; h,r-ind=2,2; alert-r-inc; optimized-h
    [5,3]((1,9,15),(3,27,41),(2,17,29),(4,35,54),(2,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((7,61,95),(2,17,27),(4,35,54)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,14),(3,27,41),(7,61,95),(4,35,54)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,44,68),(4,35,54),(3,27,41)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,14),(5,44,68),(3,27,41)); lvl=6; h,r-ind=1,1
        [3,3]((5,44,68),(7,61,95),(4,35,54)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,14),(5,44,68),(7,61,95)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,14),(7,61,95),(2,17,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,14),(2,17,28),(2,17,27)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,15),(1,9,14),(2,17,29),(2,17,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,29),(2,17,28),(3,26,43)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,14),(2,17,28),(3,26,43)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,15),(1,9,14),(3,26,43)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,15),(2,17,29),(3,26,43)); lvl=6; h,r-ind=1,1
    [4,3]((3,27,41),(1,9,13),(2,17,26),(4,35,54)); lvl=4; h,r-ind=2,1
      [4,3]((2,18,27),(3,26,40),(1,9,13),(2,17,26)); lvl=5; h,r-ind=1,1
        [3,3]((3,26,40),(4,35,53),(2,17,26)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,13),(4,35,53),(2,17,26)); lvl=6; h,r-ind=1,1
        [3,3]((2,18,27),(3,26,40),(4,35,53)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,13),(2,18,27),(4,35,53)); lvl=6; h,r-ind=1,1
      [4,3]((3,27,41),(2,18,27),(3,26,40),(4,35,54)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,27),(3,26,40),(6,53,81)); lvl=6; h,r-ind=1,1
        [3,3]((4,35,54),(3,26,40),(6,53,81)); lvl=6; h,r-ind=1,1
        [3,3]((3,27,41),(2,18,27),(6,53,81)); lvl=6; h,r-ind=1,1
        [3,3]((4,35,54),(3,27,41),(6,53,81)); lvl=6; h,r-ind=1,1
    [4,3]((1,10,14),(3,27,41),(2,19,28),(1,9,13)); lvl=4; h,r-ind=1,1
      [4,3]((2,19,28),(5,47,69),(3,27,41),(2,18,27)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,37,55),(2,18,27),(3,27,41)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,28),(4,37,55),(3,27,41)); lvl=6; h,r-ind=1,1
        [3,3]((4,37,55),(5,47,69),(2,18,27)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,28),(4,37,55),(5,47,69)); lvl=6; h,r-ind=1,1
      [4,3]((1,9,13),(1,10,14),(5,47,69),(2,18,27)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,28,41),(5,47,69),(1,10,14)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,13),(3,28,41),(1,10,14)); lvl=6; h,r-ind=1,1
        [3,3]((3,28,41),(2,18,27),(5,47,69)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,13),(3,28,41),(2,18,27)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,14),(2,19,28),(5,47,69)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,14),(2,20,27),(1,9,13)); lvl=4; h,r-ind=1,1
    [5,3]((1,9,15),(1,10,16),(2,20,29),(3,27,41),(2,19,28)); lvl=4; h,r-ind=1,1
      [4,3]((3,29,43),(6,57,85),(2,19,28),(2,20,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,19,28),(5,48,71),(6,57,85)); lvl=6; h,r-ind=1,1
        [3,3]((3,29,43),(5,48,71),(6,57,85)); lvl=6; h,r-ind=1,1
        [3,3]((2,20,29),(3,29,43),(5,48,71)); lvl=6; h,r-ind=1,1
        [3,3]((2,20,29),(2,19,28),(5,48,71)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,15),(3,29,43),(2,20,29)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,14),(6,57,85),(3,27,41),(2,19,28)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((6,57,85),(2,19,28),(3,28,42)); lvl=6; h,r-ind=1,1
        [3,3]((3,27,41),(2,19,28),(3,28,42)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,14),(3,27,41),(3,28,42)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,14),(6,57,85),(3,28,42)); lvl=6; h,r-ind=1,1
      [4,3]((1,9,14),(1,10,15),(3,29,43),(6,57,85)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,15),(4,38,57),(3,29,43)); lvl=6; h,r-ind=1,1
        [3,3]((6,57,85),(4,38,57),(3,29,43)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,14),(6,57,85),(4,38,57)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,14),(1,10,15),(4,38,57)); lvl=6; h,r-ind=1,1
      [4,3]((1,9,14),(1,9,15),(1,10,16),(1,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,15),(1,10,16),(2,19,30)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,15),(1,10,16),(2,19,30)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,14),(1,10,15),(2,19,30)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,14),(1,9,15),(2,19,30)); lvl=6; h,r-ind=1,1
    [3,3]((1,10,14),(2,20,29),(2,19,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,13),(4,34,51),(2,17,26)); lvl=4; h,r-ind=1,1
  [4,3]((1,10,11),(2,17,22),(2,20,27),(4,34,51)); lvl=3; h,r-ind=3,1
    [3,3]((1,9,13),(2,17,25),(4,34,51)); lvl=4; h,r-ind=1,1
    [4,3]((3,27,37),(1,9,13),(2,17,25),(4,35,49)); lvl=4; h,r-ind=2,1
      [4,3]((1,9,13),(2,18,25),(2,17,25),(3,26,37)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,25),(3,26,37),(4,35,50)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,25),(3,26,37),(4,35,50)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,13),(2,18,25),(4,35,50)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,25),(1,9,13),(4,35,50)); lvl=6; h,r-ind=1,1
```

```
          [4,3]((4,35,49),(3,27,37),(2,18,25),(3,26,37)); lvl=5; h,r-ind=1,1
            [3,3]((2,18,25),(3,27,37),(6,53,74)); lvl=6; h,r-ind=1,1
            [3,3]((4,35,49),(3,27,37),(6,53,74)); lvl=6; h,r-ind=1,1
            [3,3]((3,26,37),(4,35,49),(6,53,74)); lvl=6; h,r-ind=1,1
            [3,3]((3,26,37),(2,18,25),(6,53,74)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,25),(4,35,49),(2,17,24)); lvl=4; h,r-ind=2,2; alert-r-inc; optimized-h
        [5,3]((1,9,11),(3,27,37),(2,17,22),(4,35,49),(2,17,24)); lvl=4; h,r-ind=1,1
          [4,3]((1,9,11),(1,9,12),(2,17,22),(2,17,23)); lvl=5; h,r-ind=1,1
            [3,3]((2,17,22),(2,17,23),(3,26,34)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,12),(2,17,23),(3,26,34)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,11),(2,17,22),(3,26,34)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,12),(1,9,11),(3,26,34)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,12),(2,17,24),(2,17,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,12),(7,61,85),(2,17,24)); lvl=5; h,r-ind=1,1
          [3,3]((7,61,85),(4,35,49),(2,17,24)); lvl=5; h,r-ind=1,1
          [4,3]((1,9,12),(7,61,85),(3,27,37),(4,35,49)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((5,44,61),(7,61,85),(4,35,49)); lvl=6; h,r-ind=1,1
            [3,3]((3,27,37),(5,44,61),(4,35,49)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,12),(3,27,37),(5,44,61)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,12),(5,44,61),(7,61,85)); lvl=6; h,r-ind=1,1
        [4,3]((3,27,37),(2,19,25),(1,10,13),(1,9,13)); lvl=4; h,r-ind=1,1
          [3,3]((1,10,13),(2,19,25),(5,47,63)); lvl=5; h,r-ind=1,1
          [4,3]((3,27,37),(2,18,25),(2,19,25),(5,47,63)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,18,25),(4,37,50),(5,47,63)); lvl=6; h,r-ind=1,1
            [3,3]((2,19,25),(4,37,50),(5,47,63)); lvl=6; h,r-ind=1,1
            [3,3]((3,27,37),(2,18,25),(4,37,50)); lvl=6; h,r-ind=1,1
            [3,3]((2,19,25),(3,27,37),(4,37,50)); lvl=6; h,r-ind=1,1
          [4,3]((1,9,13),(2,18,25),(1,10,13),(5,47,63)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,28,38),(2,18,25),(5,47,63)); lvl=6; h,r-ind=1,1
            [3,3]((3,28,38),(1,10,13),(5,47,63)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,13),(3,28,38),(1,10,13)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,13),(3,28,38),(2,18,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,13),(1,9,13),(2,20,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,19,25),(2,20,25),(1,10,13)); lvl=4; h,r-ind=1,1
        [5,3]((1,9,11),(1,10,11),(3,27,37),(2,19,25),(2,20,25)); lvl=4; h,r-ind=1,1
          [4,3]((6,57,74),(3,27,37),(1,9,12),(2,19,25)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((3,28,37),(1,9,12),(3,27,37)); lvl=6; h,r-ind=1,1
            [3,3]((3,28,37),(2,19,25),(3,27,37)); lvl=6; h,r-ind=1,1
            [3,3]((6,57,74),(3,28,37),(2,19,25)); lvl=6; h,r-ind=1,1
            [3,3]((6,57,74),(3,28,37),(1,9,12)); lvl=6; h,r-ind=1,1
          [4,3]((2,20,25),(6,57,74),(3,29,37),(2,19,25)); lvl=5; h,r-ind=1,1
            [3,3]((3,29,37),(6,57,74),(5,48,62)); lvl=6; h,r-ind=1,1
            [3,3]((2,19,25),(6,57,74),(5,48,62)); lvl=6; h,r-ind=1,1
            [3,3]((2,20,25),(3,29,37),(5,48,62)); lvl=6; h,r-ind=1,1
            [3,3]((2,19,25),(2,20,25),(5,48,62)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,12),(2,20,25),(3,29,37)); lvl=5; h,r-ind=1,1
          [4,3]((1,10,12),(6,57,74),(3,29,37),(1,9,12)); lvl=5; h,r-ind=1,1
            [3,3]((3,29,37),(6,57,74),(4,38,49)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,12),(6,57,74),(4,38,49)); lvl=6; h,r-ind=1,1
            [3,3]((1,10,12),(3,29,37),(4,38,49)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,12),(1,10,12),(4,38,49)); lvl=6; h,r-ind=1,1
          [4,3]((1,9,11),(1,10,12),(1,10,11),(1,9,12)); lvl=5; h,r-ind=1,1
            [3,3]((1,10,11),(1,10,12),(2,19,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,12),(1,10,12),(2,19,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,11),(1,10,11),(2,19,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,12),(1,9,11),(2,19,23)); lvl=6; h,r-ind=1,1
      [4,3]((1,8,11),(2,17,22),(2,16,25),(4,34,51)); lvl=3; h,r-ind=1,1
        [3,3]((1,8,12),(2,17,24),(2,17,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,12),(3,25,38),(2,17,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,25,38),(4,34,51),(2,17,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,12),(2,16,25),(3,25,38)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,12),(1,8,11),(2,17,22),(2,17,24)); lvl=4; h,r-ind=1,1
          [4,3]((1,8,11),(4,33,46),(2,17,23),(2,17,22)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((4,33,46),(3,25,34),(2,17,23)); lvl=6; h,r-ind=1,1
            [3,3]((2,17,22),(3,25,34),(2,17,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,11),(2,17,22),(3,25,34)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,11),(4,33,46),(3,25,34)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,12),(1,8,11),(4,33,46)); lvl=5; h,r-ind=1,1
          [4,3]((2,17,24),(1,8,12),(4,33,46),(2,17,23)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,25,35),(1,8,12),(4,33,46)); lvl=6; h,r-ind=1,1
            [3,3]((2,17,23),(3,25,35),(4,33,46)); lvl=6; h,r-ind=1,1
            [3,3]((2,17,24),(3,25,35),(1,8,12)); lvl=6; h,r-ind=1,1
            [3,3]((2,17,23),(2,17,24),(3,25,35)); lvl=6; h,r-ind=1,1
    [3,3]((2,11,22),(1,6,11),(1,6,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,10,21),(2,11,22),(1,1,2)); lvl=1; h,r-ind=9,9; optimized-h
```

21.19 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,2,21)); lvl=0; h,r-ind=21,441
  [3,3]((1,0,0),(2,2,11),(1,1,10)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((0,1,0),(2,2,11),(1,1,10)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((2,2,21),(0,1,0),(1,1,10)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,21),(1,0,0),(1,1,10)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,11)); lvl=1; h,r-ind=11,121; optimized-h
```

21.20 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,21)); lvl=0; h,r-ind=21,147
  [4,3]((1,0,0),(4,6,21),(1,1,7),(2,3,18)); lvl=1; h,r-ind=3,3
    [4,3]((2,3,14),(1,1,6),(1,1,5),(2,3,18)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,6),(1,1,5),(6,7,38)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,14),(2,3,16),(1,1,5),(6,7,38)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((4,5,26),(1,1,5),(4,5,27),(6,7,38)); lvl=4; h,r-ind=1,2
          [3,3]((5,6,32),(6,7,38),(1,1,5)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,26),(5,6,32),(1,1,5)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,32),(4,5,27),(6,7,38)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,26),(5,6,32),(4,5,27)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,26),(2,3,16),(4,5,27)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((2,3,15),(4,5,26),(2,3,16)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((2,3,15),(2,3,14),(4,5,26),(1,1,5)); lvl=4; h,r-ind=1,2
          [3,3]((3,4,20),(1,1,5),(2,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,15),(3,4,20),(2,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,20),(4,5,26),(1,1,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,15),(3,4,20),(4,5,26)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,18),(2,3,16),(1,1,6),(6,7,38)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,1,6),(4,5,28),(6,7,38),(4,5,27)); lvl=4; h,r-ind=1,2
          [3,3]((4,5,28),(5,6,33),(4,5,27)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,38),(5,6,33),(4,5,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(4,5,28),(5,6,33)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,38),(1,1,6),(5,6,33)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,28),(2,3,16),(4,5,27)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((2,3,17),(4,5,28),(2,3,16)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((2,3,18),(2,3,17),(1,1,6),(4,5,28)); lvl=4; h,r-ind=1,2
          [3,3]((3,4,23),(4,5,28),(2,3,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,18),(3,4,23),(2,3,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(2,3,18),(3,4,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(3,4,23),(4,5,28)); lvl=5; h,r-ind=1,1
    [3,3]((1,1,7),(1,1,6),(2,3,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,7),(1,1,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,14),(1,1,5),(2,3,11),(1,1,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,5),(1,1,4),(5,6,26)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,11),(4,6,25),(1,1,4),(5,6,26)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((7,9,37),(1,1,4),(5,6,26),(3,4,17)); lvl=4; h,r-ind=1,3
          [3,3]((4,5,21),(1,1,4),(5,6,26)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,21),(3,4,17),(5,6,26)); lvl=5; h,r-ind=1,1
          [3,3]((7,9,37),(4,5,21),(3,4,17)); lvl=5; h,r-ind=1,1
          [3,3]((7,9,37),(4,5,21),(1,1,4)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,12),(7,9,37),(3,4,17)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,3,12),(4,6,25),(3,4,17)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,12),(2,3,11),(7,9,37),(1,1,4)); lvl=4; h,r-ind=1,3
          [3,3]((1,1,4),(3,4,16),(2,3,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,12),(3,4,16),(2,3,11)); lvl=5; h,r-ind=1,1
          [3,3]((7,9,37),(1,1,4),(3,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,12),(7,9,37),(3,4,16)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,14),(4,6,25),(1,1,5),(5,6,26)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,1,5),(7,9,40),(3,4,17),(5,6,26)); lvl=4; h,r-ind=1,3
          [3,3]((3,4,17),(7,9,40),(4,5,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(7,9,40),(4,5,22)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,26),(3,4,17),(4,5,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(5,6,26),(4,5,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,13),(7,9,40),(3,4,17)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,1,5),(2,3,14),(2,3,13),(7,9,40)); lvl=4; h,r-ind=1,3
          [3,3]((2,3,13),(3,4,18),(2,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(3,4,18),(2,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((7,9,40),(2,3,13),(3,4,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(7,9,40),(3,4,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,13),(3,4,17),(4,6,25)); lvl=4; h,r-ind=1,1
    [4,3]((4,6,21),(5,6,21),(2,3,11),(1,1,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,4),(3,4,14),(5,6,21)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,29),(1,1,4),(3,4,14)); lvl=3; h,r-ind=1,1
      [4,3]((4,6,21),(6,8,29),(2,3,11),(3,4,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,11),(6,8,29),(5,7,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,14),(6,8,29),(5,7,25)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,21),(2,3,11),(5,7,25)); lvl=4; h,r-ind=1,1
```

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      [3,3]((3,4,14),(4,6,21),(5,7,25)); lvl=4; h,r-ind=1,1
    [3,3]((6,8,29),(2,3,11),(1,1,4)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(5,6,21),(1,1,4)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(1,1,5),(1,1,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,6),(1,1,5)); lvl=2; h,r-ind=1,1
[3,3]((2,3,20),(1,1,7),(2,3,18)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((3,5,30),(3,5,28),(2,3,20),(2,3,18)); lvl=1; h,r-ind=2,1
  [4,3]((3,5,29),(3,5,28),(2,3,19),(2,3,18)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,19),(2,3,18),(5,8,47)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,28),(2,3,18),(5,8,47)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,29),(3,5,28),(5,8,47)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,29),(2,3,19),(5,8,47)); lvl=3; h,r-ind=1,1
  [4,3]((3,5,30),(3,5,29),(2,3,19),(2,3,20)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,29),(2,3,19),(5,8,49)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,20),(2,3,19),(5,8,49)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,30),(3,5,29),(5,8,49)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,20),(3,5,30),(5,8,49)); lvl=3; h,r-ind=1,1
[3,3]((2,3,21),(3,5,30),(2,3,20)); lvl=1; h,r-ind=1,1
[4,3]((0,1,0),(1,2,9),(3,5,30),(3,5,28)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,9),(4,7,38),(6,11,57),(3,5,28)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,47),(6,11,57),(4,7,38)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,28),(5,9,47),(4,7,38)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,9),(3,5,28),(5,9,47)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,9),(5,9,47),(6,11,57)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,29),(4,7,38),(3,5,28)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,10),(3,5,29),(4,7,38),(6,11,57)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,48),(3,5,29),(4,7,38)); lvl=3; h,r-ind=1,1
    [3,3]((6,11,57),(5,9,48),(4,7,38)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,10),(6,11,57),(5,9,48)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,10),(5,9,48),(3,5,29)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,9),(0,1,0),(1,2,10),(6,11,57)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((2,4,19),(0,1,0),(1,2,10)); lvl=3; h,r-ind=1,1
    [3,3]((6,11,57),(2,4,19),(1,2,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,9),(6,11,57),(2,4,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,9),(2,4,19),(0,1,0)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,10),(3,5,30),(3,5,29)); lvl=2; h,r-ind=1,1
[3,3]((2,3,21),(0,1,0),(3,5,30)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((2,3,21),(2,3,20),(1,1,7)); lvl=1; h,r-ind=1,1
[5,3]((2,4,11),(1,2,9),(3,5,28),(4,6,21),(2,3,18)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,27),(2,3,18),(3,5,28)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,9),(3,5,27),(3,5,28)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,27),(2,3,18),(2,3,14),(6,10,43)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,22),(3,5,24),(2,3,14),(2,3,16)); lvl=3; h,r-ind=2,1; alert-h-inc
      [4,3]((3,5,23),(3,5,22),(2,3,15),(2,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,15),(2,3,14),(5,8,37)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,22),(2,3,14),(5,8,37)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,23),(3,5,22),(5,8,37)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,23),(2,3,15),(5,8,37)); lvl=5; h,r-ind=1,1
      [4,3]((3,5,24),(3,5,23),(2,3,16),(2,3,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,16),(2,3,15),(5,8,39)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,23),(2,3,15),(5,8,39)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,24),(3,5,23),(5,8,39)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,24),(2,3,16),(5,8,39)); lvl=5; h,r-ind=1,1
    [4,3]((3,5,27),(3,5,24),(2,3,18),(2,3,16)); lvl=3; h,r-ind=1,1
      [4,3]((6,10,51),(3,5,24),(2,3,17),(2,3,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,16),(2,3,17),(7,11,58)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,25),(2,3,17),(7,11,58)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,25),(6,10,51),(2,3,17)); lvl=5; h,r-ind=1,1
        [4,3]((3,5,24),(3,5,25),(2,3,16),(7,11,58)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,8,41),(3,5,25),(7,11,58)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,16),(5,8,41),(7,11,58)); lvl=6; h,r-ind=1,1
          [3,3]((3,5,24),(5,8,41),(3,5,25)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,16),(3,5,24),(5,8,41)); lvl=6; h,r-ind=1,1
      [4,3]((3,5,27),(6,10,51),(2,3,17),(2,3,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,26),(2,3,17),(6,10,51)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,26),(7,11,61),(2,3,17)); lvl=5; h,r-ind=1,1
        [3,3]((7,11,61),(2,3,18),(2,3,17)); lvl=5; h,r-ind=1,1
        [4,3]((3,5,27),(3,5,26),(7,11,61),(2,3,18)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,26),(7,11,61),(5,8,44)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,18),(7,11,61),(5,8,44)); lvl=6; h,r-ind=1,1
          [3,3]((3,5,27),(3,5,26),(5,8,44)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,18),(3,5,27),(5,8,44)); lvl=6; h,r-ind=1,1
    [3,3]((6,10,43),(3,5,22),(2,3,14)); lvl=3; h,r-ind=1,1
  [5,3]((1,2,6),(1,2,7),(2,3,11),(2,3,14),(6,10,43)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,21),(2,3,14),(6,10,43)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,21),(1,2,7),(6,10,43)); lvl=3; h,r-ind=1,1
    [4,3]((6,11,39),(6,10,39),(3,5,21),(1,2,7)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,2,7),(9,16,60),(3,5,20),(3,5,21)); lvl=4; h,r-ind=1,3
        [3,3]((9,16,60),(4,7,27),(3,5,20)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,21),(4,7,27),(3,5,20)); lvl=5; h,r-ind=1,1
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      [3,3]((1,2,7),(3,5,21),(4,7,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,7),(9,16,60),(4,7,27)); lvl=5; h,r-ind=1,1
    [3,3]((4,7,26),(9,16,60),(3,5,20)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
    [4,3]((1,2,7),(6,11,39),(4,7,26),(9,16,60)); lvl=4; h,r-ind=1,3
      [3,3]((6,11,39),(5,9,33),(4,7,26)); lvl=5; h,r-ind=1,1
      [3,3]((9,16,60),(5,9,33),(4,7,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,7),(9,16,60),(5,9,33)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,7),(6,11,39),(5,9,33)); lvl=5; h,r-ind=1,1
    [3,3]((4,7,26),(3,5,20),(6,10,39)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,6),(6,11,39),(1,2,7)); lvl=3; h,r-ind=1,1
  [4,3]((6,10,39),(3,5,21),(2,3,14),(4,6,25)); lvl=3; h,r-ind=3,1; alert-h-inc
    [4,3]((3,5,20),(3,5,21),(2,3,13),(2,3,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,13),(2,3,14),(5,8,34)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,21),(2,3,14),(5,8,34)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,20),(2,3,13),(5,8,34)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,21),(3,5,20),(5,8,34)); lvl=5; h,r-ind=1,1
    [3,3]((5,8,32),(3,5,20),(2,3,13)); lvl=4; h,r-ind=1,1
    [3,3]((4,6,25),(5,8,32),(2,3,13)); lvl=4; h,r-ind=1,1
    [3,3]((5,8,32),(6,10,39),(3,5,20)); lvl=4; h,r-ind=1,1
  [5,3]((1,2,6),(6,11,39),(6,10,39),(2,3,11),(4,6,25)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,26),(6,10,39),(5,8,32),(3,5,19)); lvl=4; h,r-ind=1,1
      [3,3]((9,15,58),(5,8,32),(6,10,39)); lvl=5; h,r-ind=1,1
      [3,3]((4,7,26),(9,15,58),(6,10,39)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,19),(4,7,26),(9,15,58)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,19),(9,15,58),(5,8,32)); lvl=5; h,r-ind=1,1
    [4,3]((2,3,12),(4,6,25),(5,8,32),(3,5,19)); lvl=4; h,r-ind=1,1
      [3,3]((5,8,32),(4,6,25),(7,11,44)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,12),(4,6,25),(7,11,44)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,19),(2,3,12),(7,11,44)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,19),(5,8,32),(7,11,44)); lvl=5; h,r-ind=1,1
    [3,3]((4,7,25),(2,3,12),(3,5,19)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,6),(4,7,25),(2,3,11),(2,3,12)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,11),(2,3,12),(3,5,18)); lvl=5; h,r-ind=1,1
      [3,3]((4,7,25),(2,3,12),(3,5,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,6),(4,7,25),(3,5,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,6),(2,3,11),(3,5,18)); lvl=5; h,r-ind=1,1
    [3,3]((4,7,25),(4,7,26),(3,5,19)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,6),(4,7,25),(6,11,39),(4,7,26)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((5,9,32),(4,7,26),(4,7,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,6),(5,9,32),(4,7,25)); lvl=5; h,r-ind=1,1
      [3,3]((6,11,39),(5,9,32),(4,7,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,6),(6,11,39),(5,9,32)); lvl=5; h,r-ind=1,1
[3,3]((3,5,16),(1,2,6),(2,3,11)); lvl=2; h,r-ind=1,1
[3,3]((3,5,16),(4,6,21),(2,3,11)); lvl=2; h,r-ind=1,1
[3,3]((2,4,11),(3,5,16),(1,2,6)); lvl=2; h,r-ind=1,1
[4,3]((1,2,9),(3,5,27),(1,2,7),(6,10,43)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,7),(1,2,8),(3,5,22),(3,5,24)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,8),(5,9,38),(3,5,23),(3,5,24)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,7,31),(5,9,38),(3,5,23)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,24),(4,7,31),(3,5,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,8),(3,5,24),(4,7,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,8),(4,7,31),(5,9,38)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,7),(1,2,8),(5,9,38)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,7),(5,9,38),(3,5,22),(3,5,23)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,7,30),(3,5,23),(3,5,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,7),(4,7,30),(3,5,22)); lvl=5; h,r-ind=1,1
      [3,3]((4,7,30),(5,9,38),(3,5,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,7),(4,7,30),(5,9,38)); lvl=5; h,r-ind=1,1
  [4,3]((1,2,9),(1,2,8),(3,5,27),(3,5,24)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,8),(6,11,51),(3,5,24),(6,10,51)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((4,7,34),(3,5,25),(6,10,51)); lvl=5; h,r-ind=1,1
      [3,3]((4,7,34),(9,16,75),(3,5,25)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,8),(3,5,24),(9,16,75),(3,5,25)); lvl=5; h,r-ind=1,3
        [3,3]((3,5,24),(4,7,33),(3,5,25)); lvl=6; h,r-ind=1,1
        [3,3]((9,16,75),(4,7,33),(3,5,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,8),(9,16,75),(4,7,33)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,8),(3,5,24),(4,7,33)); lvl=6; h,r-ind=1,1
      [4,3]((1,2,8),(4,7,34),(6,11,51),(9,16,75)); lvl=5; h,r-ind=1,3
        [3,3]((5,9,42),(6,11,51),(4,7,34)); lvl=6; h,r-ind=1,1
        [3,3]((9,16,75),(5,9,42),(4,7,34)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,8),(9,16,75),(5,9,42)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,8),(5,9,42),(6,11,51)); lvl=6; h,r-ind=1,1
    [4,3]((1,2,9),(6,11,51),(3,5,27),(6,10,51)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((4,7,34),(3,5,26),(6,10,51)); lvl=5; h,r-ind=1,1
      [3,3]((4,7,34),(9,16,78),(3,5,26)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,9),(3,5,27),(9,16,78),(3,5,26)); lvl=5; h,r-ind=1,3
        [3,3]((4,7,35),(3,5,27),(3,5,26)); lvl=6; h,r-ind=1,1
        [3,3]((9,16,78),(4,7,35),(3,5,26)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,9),(9,16,78),(4,7,35)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,9),(4,7,35),(3,5,27)); lvl=6; h,r-ind=1,1
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          [4,3]((1,2,9),(6,11,51),(4,7,34),(9,16,78)); lvl=5; h,r-ind=1,3
            [3,3]((5,9,43),(6,11,51),(4,7,34)); lvl=6; h,r-ind=1,1
            [3,3]((9,16,78),(5,9,43),(4,7,34)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,9),(9,16,78),(5,9,43)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,9),(5,9,43),(6,11,51)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,9),(1,2,8),(6,11,51)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(6,10,43),(3,5,22)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(2,4,11),(1,2,9)); lvl=1; h,r-ind=7,7; optimized-h
[4,3]((0,1,0),(2,4,11),(1,0,0),(4,6,21)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,15),(1,2,5),(2,4,11),(3,5,16)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(4,7,21),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,16),(4,7,21),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,15),(3,5,16),(4,7,21)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,15),(1,2,5),(4,7,21)); lvl=3; h,r-ind=1,1
  [4,3]((3,5,15),(2,3,10),(4,6,21),(3,5,16)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,26),(4,6,21),(2,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,15),(5,8,26),(2,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,16),(3,5,15),(5,8,26)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,16),(5,8,26),(4,6,21)); lvl=3; h,r-ind=1,1
  [4,3]((3,5,15),(2,3,10),(5,8,24),(4,6,19)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(4,6,19),(7,11,34)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,24),(4,6,19),(7,11,34)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,15),(2,3,10),(7,11,34)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,24),(3,5,15),(7,11,34)); lvl=3; h,r-ind=1,1
  [4,3]((5,6,21),(2,3,10),(3,4,13),(4,6,21)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,13),(2,3,10),(6,8,27),(11,15,51)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,37),(2,3,10),(11,15,51)); lvl=4; h,r-ind=1,1
      [3,3]((8,11,37),(6,8,27),(11,15,51)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,13),(8,11,37),(6,8,27)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,13),(8,11,37),(2,3,10)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,14),(4,5,17),(6,8,27),(11,15,51)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,41),(4,5,17),(6,8,27)); lvl=4; h,r-ind=1,1
      [3,3]((11,15,51),(9,12,41),(6,8,27)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,14),(11,15,51),(9,12,41)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,14),(9,12,41),(4,5,17)); lvl=4; h,r-ind=1,1
    [3,3]((5,6,21),(3,4,14),(4,5,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,13),(4,5,17),(6,8,27)); lvl=3; h,r-ind=1,1
    [4,3]((4,6,21),(3,4,14),(2,3,10),(11,15,51)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((3,4,14),(5,7,24),(11,15,51)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(5,7,24),(11,15,51)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,21),(2,3,10),(5,7,24)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,21),(3,4,14),(5,7,24)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,5),(2,4,11)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,15),(1,2,5),(3,5,14),(5,8,24)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(3,5,14),(6,10,29)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,24),(3,5,14),(6,10,29)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,15),(1,2,5),(6,10,29)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,24),(3,5,15),(6,10,29)); lvl=3; h,r-ind=1,1
  [7,3]((3,5,13),(3,5,14),(5,8,24),(4,6,19),(2,3,8),(5,7,22),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(4,6,19),(5,8,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(3,5,14),(5,8,24)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,13),(2,3,9),(3,5,14)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,13),(2,3,9),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(5,7,22),(4,6,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(3,4,12),(5,7,22)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(2,3,8),(3,4,12)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,13),(5,7,22),(3,4,12),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((6,8,25),(3,4,12),(5,7,22)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,13),(6,8,25),(5,7,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(6,8,25),(3,4,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,13),(1,1,3),(6,8,25)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(5,6,21),(3,4,13),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,7),(5,6,21),(4,5,17)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,7),(8,9,30),(5,6,20),(4,5,17)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,27),(5,6,20),(8,9,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,7),(7,8,27),(8,9,30)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,27),(4,5,17),(5,6,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,7),(7,8,27),(4,5,17)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,13),(5,6,20),(4,5,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,3),(8,9,30),(3,4,13),(5,6,20)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,23),(5,6,20),(8,9,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(6,7,23),(8,9,30)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,23),(3,4,13),(5,6,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(6,7,23),(3,4,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,3),(1,0,0),(2,2,7),(8,9,30)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((1,0,0),(3,3,10),(2,2,7)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,30),(3,3,10),(2,2,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(8,9,30),(3,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(1,0,0),(3,3,10)); lvl=4; h,r-ind=1,1
  [5,3]((4,6,11),(1,1,2),(2,3,8),(3,4,12),(1,1,3)); lvl=2; h,r-ind=1,1
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    [3,3]((3,4,11),(3,4,12),(1,1,3)); lvl=3; h,r-ind=1,1
    [4,3]((6,7,17),(3,4,11),(6,8,19),(1,1,3)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,1,3),(9,11,28),(3,4,10),(3,4,11)); lvl=4; h,r-ind=1,3
        [3,3]((4,5,13),(3,4,10),(9,11,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(4,5,13),(9,11,28)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,11),(4,5,13),(3,4,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(3,4,11),(4,5,13)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,12),(9,11,28),(3,4,10)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((4,5,12),(6,8,19),(3,4,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,3),(6,7,17),(4,5,12),(9,11,28)); lvl=4; h,r-ind=1,3
        [3,3]((4,5,12),(5,6,15),(6,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(5,6,15),(6,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((9,11,28),(4,5,12),(5,6,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(9,11,28),(5,6,15)); lvl=5; h,r-ind=1,1
    [3,3]((1,1,2),(6,7,17),(1,1,3)); lvl=3; h,r-ind=1,1
    [5,3]((2,3,6),(4,6,13),(1,1,2),(6,7,17),(6,8,19)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,16),(3,4,9),(4,5,12),(6,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,12),(3,4,9),(9,12,28)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,16),(3,4,9),(9,12,28)); lvl=5; h,r-ind=1,1
        [3,3]((6,8,19),(5,7,16),(9,12,28)); lvl=5; h,r-ind=1,1
        [3,3]((6,8,19),(4,5,12),(9,12,28)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,9),(8,10,23),(4,5,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,2),(6,7,17),(8,10,23),(4,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,14),(4,5,12),(8,10,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(5,6,14),(8,10,23)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,17),(5,6,14),(4,5,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(6,7,17),(5,6,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,9),(8,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(1,1,2),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,16),(4,6,13),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(4,6,13),(3,4,9)); lvl=4; h,r-ind=1,1
    [3,3]((4,6,11),(2,3,6),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,11),(2,3,8),(3,4,12)); lvl=3; h,r-ind=1,1
    [4,3]((4,6,13),(3,4,11),(6,8,19),(2,3,8)); lvl=3; h,r-ind=3,1; alert-h-inc
      [4,3]((2,3,7),(2,3,8),(3,4,11),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,18),(3,4,11),(2,3,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,7),(5,7,18),(2,3,8)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,10),(2,3,7),(5,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,10),(5,7,18),(3,4,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,16),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,16),(6,8,19),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,13),(2,3,7),(5,7,16)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=2; h,r-ind=1,1
  [5,3]((0,1,0),(1,2,3),(1,0,0),(4,6,11),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(4,6,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(2,3,5),(4,6,9),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(4,6,9),(5,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,7),(4,6,9),(5,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(5,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,7),(1,2,3),(5,8,12)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,6),(1,1,2),(2,3,5),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(2,3,5),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,11),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,9),(5,7,11),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(4,6,9),(5,7,11)); lvl=4; h,r-ind=1,1
    [4,3]((2,2,3),(4,5,7),(3,4,6),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(5,6,9),(3,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(5,6,9),(3,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,7),(5,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(5,6,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(2,2,3),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(3,4,5),(4,5,7)); lvl=4; h,r-ind=1,1
      [4,3]((2,2,3),(5,6,8),(8,9,12),(4,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,11),(8,9,12),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,7),(7,8,11),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,3),(4,5,7),(7,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,3),(7,8,11),(8,9,12)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,1),(1,0,0),(2,2,3),(8,9,12)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,12),(2,2,3),(3,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(8,9,12),(3,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,1),(5,6,8),(8,9,12),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,9),(8,9,12),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,5),(6,7,9),(5,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(6,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(6,7,9),(8,9,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(3,4,5)); lvl=4; h,r-ind=1,1
```

```
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [6,3]((2,3,3),(4,5,7),(1,2,2),(3,4,6),(4,6,9),(3,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(4,6,9),(3,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(2,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,6),(4,6,9)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,7),(2,3,4),(3,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,7),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,3),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,3),(1,2,2),(3,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,7),(2,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(3,5,7),(2,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=4; h,r-ind=1,1
[4,3]((2,3,10),(4,6,19),(3,4,13),(5,7,22)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,22),(4,6,19),(7,10,32)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,10),(4,6,19),(7,10,32)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,13),(2,3,10),(7,10,32)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,13),(5,7,22),(7,10,32)); lvl=3; h,r-ind=1,1
[5,3]((3,5,13),(1,2,4),(1,2,3),(4,6,11),(2,3,8)); lvl=2; h,r-ind=1,1
  [4,3]((6,11,21),(6,10,21),(3,5,12),(1,2,4)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((1,2,4),(3,5,12),(3,5,11),(9,16,33)); lvl=4; h,r-ind=1,3
      [3,3]((3,5,12),(4,7,15),(3,5,11)); lvl=5; h,r-ind=1,1
      [3,3]((9,16,33),(4,7,15),(3,5,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,4),(9,16,33),(4,7,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,12),(4,7,15)); lvl=5; h,r-ind=1,1
    [3,3]((4,7,14),(3,5,11),(9,16,33)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
    [4,3]((1,2,4),(6,11,21),(4,7,14),(9,16,33)); lvl=4; h,r-ind=1,3
      [3,3]((5,9,18),(6,11,21),(4,7,14)); lvl=5; h,r-ind=1,1
      [3,3]((9,16,33),(5,9,18),(4,7,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,4),(9,16,33),(5,9,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,4),(5,9,18),(6,11,21)); lvl=5; h,r-ind=1,1
    [3,3]((4,7,14),(6,10,21),(3,5,11)); lvl=4; h,r-ind=1,1
  [3,3]((3,5,13),(3,5,12),(1,2,4)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,3),(6,11,21),(1,2,4)); lvl=3; h,r-ind=1,1
  [5,3]((1,2,3),(6,11,21),(6,10,21),(4,6,13),(2,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(4,7,14),(8,14,27),(6,11,21)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,14),(8,14,27),(5,9,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(8,14,27),(5,9,17)); lvl=5; h,r-ind=1,1
      [3,3]((6,11,21),(4,7,14),(5,9,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(6,11,21),(5,9,17)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,3),(8,14,27),(3,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(3,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((4,7,14),(8,14,27),(3,5,10)); lvl=4; h,r-ind=1,1
    [4,3]((4,7,14),(6,10,21),(5,8,17),(3,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((9,15,31),(5,8,17),(6,10,21)); lvl=5; h,r-ind=1,1
      [3,3]((4,7,14),(9,15,31),(6,10,21)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,10),(4,7,14),(9,15,31)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,10),(9,15,31),(5,8,17)); lvl=5; h,r-ind=1,1
    [3,3]((5,8,17),(4,6,13),(3,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,6),(4,6,13),(3,5,10)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,8),(6,10,21),(3,5,12),(4,6,13)); lvl=3; h,r-ind=3,1; alert-h-inc
    [3,3]((3,5,11),(5,8,17),(6,10,21)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,7),(3,5,11),(5,8,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,7),(4,6,13),(5,8,17)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,8),(2,3,7),(3,5,12),(3,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,11),(3,5,12),(5,8,19)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,8),(3,5,12),(5,8,19)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,8),(5,8,19)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,7),(3,5,11),(5,8,19)); lvl=5; h,r-ind=1,1
  [3,3]((3,5,13),(2,3,8),(3,5,12)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,3),(2,3,6),(4,6,11)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
[5,3]((0,1,0),(1,2,5),(3,5,13),(3,5,14),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,14),(1,2,5),(5,9,23)); lvl=3; h,r-ind=1,1
  [4,3]((2,4,9),(6,11,27),(1,2,5),(5,9,23)); lvl=3; h,r-ind=1,1
    [3,3]((5,9,23),(6,11,27),(7,13,32)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,9),(6,11,27),(7,13,32)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(2,4,9),(7,13,32)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(5,9,23),(7,13,32)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,9),(1,2,5)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,9),(1,2,4)); lvl=3; h,r-ind=1,1
  [5,3]((5,9,22),(6,11,27),(3,5,13),(3,5,14),(5,9,23)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,14),(4,7,18),(5,9,23)); lvl=4; h,r-ind=1,1
    [3,3]((6,11,27),(4,7,18),(5,9,23)); lvl=4; h,r-ind=1,1
    [3,3]((5,9,22),(6,11,27),(4,7,18)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,14),(3,5,13),(4,7,18)); lvl=4; h,r-ind=1,1
    [3,3]((5,9,22),(3,5,13),(4,7,18)); lvl=4; h,r-ind=1,1
  [3,3]((5,9,22),(1,2,4),(3,5,13)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((2,4,9),(5,9,22),(6,11,27),(1,2,4)); lvl=3; h,r-ind=1,1
        [3,3]((5,9,22),(6,11,27),(7,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,9),(6,11,27),(7,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(2,4,9),(7,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(5,9,22),(7,13,31)); lvl=4; h,r-ind=1,1
```

21.21 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,4,21)); lvl=0; h,r-ind=21,441
  [5,3]((2,3,15),(1,1,5),(1,1,3),(2,4,11),(1,2,9)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,4),(4,6,23),(1,1,5),(2,3,14)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,5),(5,6,26),(2,3,14),(4,6,25)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,4,17),(2,3,13),(7,9,40)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,1,5),(2,3,14),(2,3,13),(7,9,40)); lvl=4; h,r-ind=1,3
          [3,3]((2,3,13),(3,4,18),(2,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(3,4,18),(2,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((7,9,40),(2,3,13),(3,4,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(7,9,40),(3,4,18)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,5),(5,6,26),(3,4,17),(7,9,40)); lvl=4; h,r-ind=1,3
          [3,3]((4,5,22),(3,4,17),(5,6,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(4,5,22),(5,6,26)); lvl=5; h,r-ind=1,1
          [3,3]((7,9,40),(4,5,22),(3,4,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(7,9,40),(4,5,22)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,17),(4,6,25),(2,3,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,4),(5,6,26),(2,3,12),(4,6,25)); lvl=3; h,r-ind=1,1
        [4,3]((3,4,17),(6,8,33),(2,3,12),(4,6,25)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((6,8,33),(5,7,29),(2,3,12)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,25),(5,7,29),(2,3,12)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,17),(4,6,25),(5,7,29)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,17),(6,8,33),(5,7,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(3,4,17),(6,8,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(3,4,17),(5,6,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(6,8,33),(2,3,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(4,6,23),(2,3,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(1,1,5),(5,6,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,15),(1,1,5),(2,3,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,9),(4,6,23),(1,2,7),(2,3,14)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,8),(1,2,7),(2,3,12),(4,6,25)); lvl=3; h,r-ind=1,1
        [3,3]((3,5,20),(2,3,12),(1,2,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,8),(3,5,20),(1,2,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,25),(1,2,8),(3,5,20)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,25),(3,5,20),(2,3,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,8),(1,2,9),(2,3,14),(4,6,25)); lvl=3; h,r-ind=1,1
        [4,3]((4,7,30),(1,2,9),(2,3,13),(2,3,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,22),(2,3,14),(2,3,13)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,30),(3,5,22),(2,3,13)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,22),(1,2,9),(2,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,30),(3,5,22),(1,2,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,8),(4,7,30),(2,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,25),(1,2,8),(2,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,8),(4,7,30),(1,2,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(4,6,23),(2,3,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,15),(1,2,9),(2,3,14)); lvl=2; h,r-ind=1,1
    [5,3]((1,1,3),(1,1,4),(4,6,23),(1,2,6),(1,2,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,7),(4,6,23),(2,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(4,6,23),(2,3,11)); lvl=3; h,r-ind=1,1
      [4,3]((4,6,21),(3,4,14),(1,1,4),(2,3,11)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,25),(3,4,14),(1,1,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(5,7,25),(1,1,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,21),(2,3,11),(5,7,25)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,21),(5,7,25),(3,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,14),(1,1,4)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,17),(4,6,21),(1,2,7),(2,3,11)); lvl=3; h,r-ind=1,1
        [3,3]((4,6,21),(2,3,11),(5,8,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(2,3,11),(5,8,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,17),(4,6,21),(5,8,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(3,5,17),(5,8,28)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,17),(1,2,7),(1,2,6)); lvl=3; h,r-ind=1,1
      [5,3]((1,1,3),(3,5,17),(4,6,21),(3,4,14),(1,2,6)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,10),(3,4,14),(1,1,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,3,10),(1,1,3)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,17),(1,2,6),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(4,6,21),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,17),(2,3,10),(4,6,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,3),(2,4,11),(1,2,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,11),(1,2,9)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((2,3,15),(1,2,10),(1,2,9)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((0,1,0),(1,2,10),(1,2,9)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,21),(2,3,15),(1,2,10)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,21),(1,2,10)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,21),(2,3,15),(1,1,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,21),(1,1,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,5),(1,1,3)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,0,0),(0,1,0),(1,1,3),(2,4,11)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,4),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(0,1,0)); lvl=2; h,r-ind=3,9; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((1,0,0),(1,2,3),(2,3,7),(2,2,5),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,7),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,2,5),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,5),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,11),(1,2,5),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(2,4,11),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(1,2,5),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(2,3,7),(2,2,5),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,5),(2,3,7),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,7),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,2,5),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,1,3),(3,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(2,2,5)); lvl=2; h,r-ind=1,1
```

21.22 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,5,21)); lvl=0; h,r-ind=21,441
  [5,3]((1,2,7),(2,3,12),(2,2,5),(2,4,9),(1,1,4)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,11),(1,1,3),(2,3,9),(1,1,4)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,10),(4,5,17),(1,1,3),(2,3,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,1,3),(4,5,17),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(4,5,17),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(1,1,3),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(2,3,9),(3,4,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(4,5,17),(1,1,3)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,10),(2,3,11),(1,1,4),(4,5,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,11),(3,4,14),(1,1,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,17),(3,4,14),(1,1,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(4,5,17),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(2,3,11),(3,4,14)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,12),(2,3,11),(1,1,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,7),(2,4,11),(2,3,11),(2,3,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,6),(2,3,9),(2,3,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,7),(1,2,6),(2,3,11),(2,3,10)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,11),(2,3,10),(3,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,3,10),(3,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(1,2,6),(3,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(2,3,11),(3,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,11),(1,2,6),(2,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,12),(1,2,7),(2,3,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,11),(1,2,5),(1,1,3),(2,3,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,14),(1,2,5),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(3,5,14),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,11),(2,3,9),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,11),(3,5,14),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,7),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(2,2,5),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(1,2,5),(2,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,21),(2,3,12),(1,1,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,5,21),(1,1,4)); lvl=1; h,r-ind=1,1
  [4,3]((3,7,28),(1,2,7),(3,7,24),(2,3,12)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,7),(6,13,48),(8,17,63),(3,7,24)); lvl=2; h,r-ind=1,1
      [3,3]((7,15,55),(8,17,63),(6,13,48)); lvl=3; h,r-ind=1,1
      [4,3]((7,15,55),(9,20,72),(6,13,47),(6,13,48)); lvl=3; h,r-ind=1,1
        [3,3]((6,13,47),(5,11,40),(9,20,72)); lvl=4; h,r-ind=1,1
        [3,3]((6,13,47),(18,39,142),(5,11,40)); lvl=4; h,r-ind=1,1
        [4,3]((6,13,48),(7,15,55),(18,39,142),(5,11,40)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((12,26,95),(18,39,142),(7,15,55)); lvl=5; h,r-ind=1,1
          [3,3]((6,13,48),(12,26,95),(7,15,55)); lvl=5; h,r-ind=1,1
          [3,3]((5,11,40),(6,13,48),(12,26,95)); lvl=5; h,r-ind=1,1
          [3,3]((5,11,40),(12,26,95),(18,39,142)); lvl=5; h,r-ind=1,1
        [3,3]((7,15,55),(6,13,47),(18,39,142)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,7),(3,7,24),(9,20,72),(6,13,47)); lvl=3; h,r-ind=1,1
        [4,3]((6,13,47),(11,24,86),(4,9,32),(9,20,72)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((11,24,86),(10,22,79),(4,9,32)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((9,20,72),(10,22,79),(4,9,32)); lvl=5; h,r-ind=1,1
          [3,3]((6,13,47),(9,20,72),(10,22,79)); lvl=5; h,r-ind=1,1
          [3,3]((6,13,47),(11,24,86),(10,22,79)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(6,13,47),(11,24,86)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(11,24,86),(4,9,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(3,7,24),(4,9,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(7,15,55),(6,13,47)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(7,15,55),(8,17,63)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,12),(1,2,8),(1,2,7),(8,17,63)); lvl=2; h,r-ind=1,5; alert-r-inc
      [3,3]((2,4,15),(1,2,8),(8,17,63)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,15),(1,2,7),(8,17,63)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,12),(2,4,15),(1,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,12),(2,4,15),(1,2,8)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,26),(6,13,48),(5,11,41),(3,7,24)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,33),(6,13,48),(9,20,72)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((3,7,24),(3,7,25),(4,9,33),(9,20,72)); lvl=3; h,r-ind=1,1
        [3,3]((4,9,33),(3,7,25),(11,25,90)); lvl=4; h,r-ind=1,1
        [4,3]((4,9,32),(3,7,24),(3,7,25),(11,25,90)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,7,24),(7,16,57),(3,7,25)); lvl=5; h,r-ind=1,1
          [3,3]((11,25,90),(7,16,57),(3,7,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,32),(11,25,90),(7,16,57)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,32),(3,7,24),(7,16,57)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,32),(4,9,33),(11,25,90)); lvl=4; h,r-ind=1,1
        [3,3]((9,20,72),(4,9,32),(4,9,33)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,26),(3,7,25),(4,9,33)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,41),(4,9,33),(6,13,48)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,26),(5,11,41),(4,9,33)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,8),(3,7,28),(3,7,26),(5,11,41)); lvl=2; h,r-ind=1,1
      [4,3]((8,18,69),(3,7,27),(3,7,26),(4,9,34)); lvl=3; h,r-ind=1,1
        [3,3]((7,16,61),(3,7,26),(3,7,27)); lvl=4; h,r-ind=1,1
        [3,3]((8,18,69),(7,16,61),(3,7,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,34),(7,16,61),(3,7,26)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,34),(8,18,69),(7,16,61)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,41),(3,7,26),(4,9,34)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(8,18,69),(4,9,34)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(5,11,41),(4,9,34)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,8),(8,18,69),(3,7,27),(3,7,28)); lvl=3; h,r-ind=1,1
        [3,3]((4,9,35),(8,18,69),(3,7,27)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,28),(4,9,35),(3,7,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,8),(3,7,28),(4,9,35)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,8),(4,9,35),(8,18,69)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,8),(6,13,48),(5,11,41),(8,17,63)); lvl=2; h,r-ind=1,1
      [3,3]((7,15,56),(5,11,41),(6,13,48)); lvl=3; h,r-ind=1,1
      [3,3]((8,17,63),(7,15,56),(6,13,48)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(8,17,63),(7,15,56)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(7,15,56),(5,11,41)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,21),(3,7,28),(2,3,12)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((2,5,21),(3,7,28),(2,5,20)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,5),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((1,2,7),(3,7,24),(2,4,9),(4,10,21),(2,5,16)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,16),(3,7,24),(3,7,23)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,7),(3,7,24),(3,7,23)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,16),(2,5,13),(3,7,19),(3,7,23)); lvl=2; h,r-ind=1,1
      [4,3]((4,10,29),(3,7,21),(2,5,13),(3,7,19)); lvl=3; h,r-ind=1,1
        [4,3]((2,5,14),(2,5,13),(3,7,19),(3,7,20)); lvl=4; h,r-ind=1,1
          [3,3]((3,7,19),(2,5,13),(5,12,33)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,14),(2,5,13),(5,12,33)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,20),(2,5,14),(5,12,33)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,20),(3,7,19),(5,12,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,14),(3,7,21),(3,7,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,14),(4,10,29),(3,7,21)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,16),(4,10,29),(3,7,23),(3,7,21)); lvl=3; h,r-ind=1,1
        [4,3]((2,5,15),(2,5,16),(3,7,23),(3,7,22)); lvl=4; h,r-ind=1,1
          [3,3]((5,12,38),(3,7,23),(2,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(5,12,38),(2,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,22),(2,5,15),(5,12,38)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,22),(5,12,38),(3,7,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,15),(3,7,21),(3,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,15),(4,10,29),(3,7,21)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,7),(2,4,11),(3,7,19),(3,7,23)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,6),(2,4,11),(3,7,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(3,7,21),(3,7,19)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,2,7),(1,2,6),(3,7,23),(3,7,21)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,6),(5,11,35),(3,7,22),(3,7,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,9,28),(5,11,35),(3,7,22)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,21),(4,9,28),(3,7,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(3,7,21),(4,9,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(4,9,28),(5,11,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(1,2,6),(5,11,35)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,7),(5,11,35),(3,7,23),(3,7,22)); lvl=4; h,r-ind=1,2; alert-r-inc
```

```
        [3,3]((3,7,23),(4,9,29),(3,7,22)); lvl=5; h,r-ind=1,1
        [3,3]((5,11,35),(4,9,29),(3,7,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(5,11,35),(4,9,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(3,7,23),(4,9,29)); lvl=5; h,r-ind=1,1
  [5,3]((2,4,11),(1,2,5),(2,5,11),(2,5,13),(3,7,19)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(6,13,34),(9,20,52),(4,9,23)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,34),(9,20,52),(10,22,57)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,23),(9,20,52),(10,22,57)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(6,13,34),(10,22,57)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,23),(1,2,5),(10,22,57)); lvl=4; h,r-ind=1,1
    [5,3]((6,14,37),(2,5,13),(2,5,12),(9,20,52),(4,9,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,18),(2,5,12),(4,9,23)); lvl=4; h,r-ind=1,1
      [3,3]((9,20,52),(3,7,18),(4,9,23)); lvl=4; h,r-ind=1,1
      [3,3]((9,20,52),(15,34,89),(3,7,18)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((6,14,37),(15,34,89),(3,7,18)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,5,13),(3,7,18),(2,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(6,14,37),(3,7,18)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,19),(6,14,37),(2,5,13)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,11),(2,5,12),(1,2,5),(4,9,23)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,12),(4,9,23),(3,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(4,9,23),(3,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(2,5,12),(3,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,11),(3,7,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,11),(1,2,5),(6,13,34)); lvl=3; h,r-ind=1,1
    [5,3]((2,4,11),(3,7,19),(6,14,37),(6,13,34),(9,20,52)); lvl=3; h,r-ind=1,1
      [4,3]((15,34,89),(9,20,53),(9,20,52),(5,11,29)); lvl=4; h,r-ind=1,1
        [4,3]((17,38,100),(30,67,176),(5,11,29),(9,20,53)); lvl=5; h,r-ind=1,1
          [3,3]((5,11,29),(30,67,176),(22,49,129)); lvl=6; h,r-ind=1,1
          [3,3]((17,38,100),(30,67,176),(22,49,129)); lvl=6; h,r-ind=1,1
          [3,3]((17,38,100),(9,20,53),(22,49,129)); lvl=6; h,r-ind=1,1
          [3,3]((9,20,53),(5,11,29),(22,49,129)); lvl=6; h,r-ind=1,1
        [3,3]((12,27,71),(17,38,100),(9,20,53)); lvl=5; h,r-ind=1,1
        [4,3]((12,27,71),(8,18,47),(17,38,100),(30,67,176)); lvl=5; h,r-ind=1,1
          [3,3]((8,18,47),(25,56,147),(30,67,176)); lvl=6; h,r-ind=1,1
          [3,3]((17,38,100),(25,56,147),(30,67,176)); lvl=6; h,r-ind=1,1
          [3,3]((17,38,100),(12,27,71),(25,56,147)); lvl=6; h,r-ind=1,1
          [3,3]((12,27,71),(8,18,47),(25,56,147)); lvl=6; h,r-ind=1,1
        [3,3]((12,27,71),(15,34,89),(8,18,47)); lvl=5; h,r-ind=1,1
        [4,3]((9,20,52),(8,18,47),(30,67,176),(5,11,29)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((8,18,47),(30,67,176),(13,29,76)); lvl=6; h,r-ind=1,1
          [3,3]((5,11,29),(30,67,176),(13,29,76)); lvl=6; h,r-ind=1,1
          [3,3]((9,20,52),(8,18,47),(13,29,76)); lvl=6; h,r-ind=1,1
          [3,3]((5,11,29),(9,20,52),(13,29,76)); lvl=6; h,r-ind=1,1
      [3,3]((6,13,34),(9,20,52),(5,11,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,11),(6,13,34),(5,11,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,11),(9,20,53),(5,11,29)); lvl=4; h,r-ind=1,1
      [4,3]((6,14,37),(15,34,89),(9,20,53),(4,9,24)); lvl=4; h,r-ind=1,1
        [3,3]((12,27,71),(16,36,95),(9,20,53)); lvl=5; h,r-ind=1,1
        [4,3]((4,9,24),(27,61,161),(16,36,95),(9,20,53)); lvl=5; h,r-ind=1,1
          [3,3]((20,45,119),(27,61,161),(16,36,95)); lvl=6; h,r-ind=1,1
          [3,3]((9,20,53),(20,45,119),(16,36,95)); lvl=6; h,r-ind=1,1
          [3,3]((4,9,24),(9,20,53),(20,45,119)); lvl=6; h,r-ind=1,1
          [3,3]((4,9,24),(20,45,119),(27,61,161)); lvl=6; h,r-ind=1,1
        [4,3]((7,16,42),(27,61,161),(12,27,71),(16,36,95)); lvl=5; h,r-ind=1,1
          [3,3]((23,52,137),(12,27,71),(16,36,95)); lvl=6; h,r-ind=1,1
          [3,3]((27,61,161),(23,52,137),(16,36,95)); lvl=6; h,r-ind=1,1
          [3,3]((7,16,42),(27,61,161),(23,52,137)); lvl=6; h,r-ind=1,1
          [3,3]((7,16,42),(23,52,137),(12,27,71)); lvl=6; h,r-ind=1,1
        [3,3]((7,16,42),(15,34,89),(12,27,71)); lvl=5; h,r-ind=1,1
        [4,3]((4,9,24),(6,14,37),(7,16,42),(27,61,161)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((11,25,66),(7,16,42),(6,14,37)); lvl=6; h,r-ind=1,1
          [3,3]((4,9,24),(11,25,66),(6,14,37)); lvl=6; h,r-ind=1,1
          [3,3]((27,61,161),(11,25,66),(7,16,42)); lvl=6; h,r-ind=1,1
          [3,3]((4,9,24),(27,61,161),(11,25,66)); lvl=6; h,r-ind=1,1
      [3,3]((3,7,19),(6,14,37),(4,9,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,11),(9,20,53),(4,9,24)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,19),(2,4,11),(4,9,24)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,5),(3,7,15),(2,5,11)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,15),(4,10,21),(2,5,11)); lvl=2; h,r-ind=1,1
  [3,3]((2,4,9),(1,2,5),(3,7,15)); lvl=2; h,r-ind=1,1
[3,3]((2,5,21),(2,5,20),(3,8,30)); lvl=1; h,r-ind=1,1
[3,3]((0,1,0),(2,5,21),(3,8,30)); lvl=1; h,r-ind=3,3; optimized-h
[5,3]((3,8,25),(1,3,8),(4,10,21),(2,6,11),(2,5,16)); lvl=1; h,r-ind=1,1
  [4,3]((3,8,24),(3,8,20),(1,3,8),(2,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,20),(2,6,13),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,20),(3,8,22),(1,3,7)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((3,8,24),(3,8,22),(1,3,8),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(5,14,38),(1,3,7)); lvl=4; h,r-ind=1,1
      [4,3]((3,8,23),(3,8,22),(5,14,38),(1,3,7)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,22),(4,11,30),(1,3,7)); lvl=5; h,r-ind=1,1
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      [3,3]((5,14,38),(4,11,30),(1,3,7)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,23),(5,14,38),(4,11,30)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,23),(3,8,22),(4,11,30)); lvl=5; h,r-ind=1,1
    [4,3]((3,8,24),(3,8,23),(1,3,8),(5,14,38)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,23),(5,14,38),(4,11,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,8),(5,14,38),(4,11,31)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,24),(1,3,8),(4,11,31)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,24),(3,8,23),(4,11,31)); lvl=5; h,r-ind=1,1
[5,3]((2,5,13),(3,8,20),(1,3,6),(2,5,11),(2,6,13)); lvl=2; h,r-ind=1,1
  [5,3]((6,16,39),(9,25,57),(2,6,13),(6,17,38),(3,8,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,13),(4,11,26),(9,25,58)); lvl=4; h,r-ind=1,1
    [4,3]((6,16,39),(15,41,96),(4,11,26),(9,25,58)); lvl=4; h,r-ind=1,1
      [4,3]((4,11,26),(16,44,103),(27,74,174),(9,25,58)); lvl=5; h,r-ind=1,1
        [3,3]((27,74,174),(20,55,129),(16,44,103)); lvl=6; h,r-ind=1,1
        [3,3]((9,25,58),(20,55,129),(16,44,103)); lvl=6; h,r-ind=1,1
        [3,3]((4,11,26),(9,25,58),(20,55,129)); lvl=6; h,r-ind=1,1
        [3,3]((4,11,26),(27,74,174),(20,55,129)); lvl=6; h,r-ind=1,1
      [3,3]((16,44,103),(12,33,77),(9,25,58)); lvl=5; h,r-ind=1,1
      [4,3]((7,19,45),(16,44,103),(12,33,77),(27,74,174)); lvl=5; h,r-ind=1,1
        [3,3]((23,63,148),(16,44,103),(12,33,77)); lvl=6; h,r-ind=1,1
        [3,3]((7,19,45),(23,63,148),(12,33,77)); lvl=6; h,r-ind=1,1
        [3,3]((23,63,148),(27,74,174),(16,44,103)); lvl=6; h,r-ind=1,1
        [3,3]((7,19,45),(23,63,148),(27,74,174)); lvl=6; h,r-ind=1,1
      [4,3]((4,11,26),(6,16,39),(7,19,45),(27,74,174)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((11,30,71),(6,16,39),(7,19,45)); lvl=6; h,r-ind=1,1
        [3,3]((27,74,174),(11,30,71),(7,19,45)); lvl=6; h,r-ind=1,1
        [3,3]((4,11,26),(27,74,174),(11,30,71)); lvl=6; h,r-ind=1,1
        [3,3]((4,11,26),(11,30,71),(6,16,39)); lvl=6; h,r-ind=1,1
      [3,3]((7,19,45),(15,41,96),(12,33,77)); lvl=5; h,r-ind=1,1
    [3,3]((2,6,13),(5,14,32),(9,25,58)); lvl=4; h,r-ind=1,1
    [4,3]((9,25,57),(15,41,96),(5,14,32),(9,25,58)); lvl=4; h,r-ind=1,1
      [3,3]((12,33,77),(9,25,58),(17,47,109)); lvl=5; h,r-ind=1,1
      [4,3]((5,14,32),(30,83,192),(9,25,58),(17,47,109)); lvl=5; h,r-ind=1,1
        [3,3]((30,83,192),(22,61,141),(17,47,109)); lvl=6; h,r-ind=1,1
        [3,3]((9,25,58),(22,61,141),(17,47,109)); lvl=6; h,r-ind=1,1
        [3,3]((5,14,32),(9,25,58),(22,61,141)); lvl=6; h,r-ind=1,1
        [3,3]((5,14,32),(30,83,192),(22,61,141)); lvl=6; h,r-ind=1,1
      [4,3]((9,25,57),(8,22,51),(5,14,32),(30,83,192)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((8,22,51),(30,83,192),(13,36,83)); lvl=6; h,r-ind=1,1
        [3,3]((5,14,32),(30,83,192),(13,36,83)); lvl=6; h,r-ind=1,1
        [3,3]((9,25,57),(8,22,51),(13,36,83)); lvl=6; h,r-ind=1,1
        [3,3]((5,14,32),(9,25,57),(13,36,83)); lvl=6; h,r-ind=1,1
      [4,3]((8,22,51),(30,83,192),(12,33,77),(17,47,109)); lvl=5; h,r-ind=1,1
        [3,3]((25,69,160),(17,47,109),(30,83,192)); lvl=6; h,r-ind=1,1
        [3,3]((8,22,51),(25,69,160),(30,83,192)); lvl=6; h,r-ind=1,1
        [3,3]((25,69,160),(12,33,77),(17,47,109)); lvl=6; h,r-ind=1,1
        [3,3]((8,22,51),(25,69,160),(12,33,77)); lvl=6; h,r-ind=1,1
      [3,3]((8,22,51),(12,33,77),(15,41,96)); lvl=5; h,r-ind=1,1
    [3,3]((6,17,38),(2,6,13),(5,14,32)); lvl=4; h,r-ind=1,1
    [3,3]((9,25,57),(6,17,38),(5,14,32)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,20),(2,6,13),(4,11,26)); lvl=4; h,r-ind=1,1
    [3,3]((6,16,39),(3,8,20),(4,11,26)); lvl=4; h,r-ind=1,1
  [3,3]((2,5,13),(6,16,39),(3,8,20)); lvl=3; h,r-ind=1,1
  [5,3]((2,5,13),(2,5,12),(6,16,39),(9,25,57),(4,11,25)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,19),(9,25,57),(4,11,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,12),(3,8,19),(4,11,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,13),(2,5,12),(3,8,19)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,19),(15,41,96),(9,25,57)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((6,16,39),(3,8,19),(15,41,96)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,5,13),(6,16,39),(3,8,19)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,6),(2,6,13),(6,17,38)); lvl=3; h,r-ind=1,1
  [4,3]((9,25,57),(4,11,25),(1,3,6),(6,17,38)); lvl=3; h,r-ind=1,1
    [3,3]((10,28,63),(1,3,6),(4,11,25)); lvl=4; h,r-ind=1,1
    [3,3]((9,25,57),(10,28,63),(4,11,25)); lvl=4; h,r-ind=1,1
    [3,3]((6,17,38),(10,28,63),(1,3,6)); lvl=4; h,r-ind=1,1
    [3,3]((9,25,57),(6,17,38),(10,28,63)); lvl=4; h,r-ind=1,1
  [4,3]((2,5,12),(4,11,25),(1,3,6),(2,5,11)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((3,8,18),(1,3,6),(4,11,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,12),(3,8,18),(4,11,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,11),(3,8,18),(1,3,6)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,12),(2,5,11),(3,8,18)); lvl=4; h,r-ind=1,1
[3,3]((1,3,6),(2,5,11),(3,8,16)); lvl=2; h,r-ind=1,1
[3,3]((2,5,11),(4,10,21),(3,8,16)); lvl=2; h,r-ind=1,1
[3,3]((1,3,6),(2,6,11),(3,8,16)); lvl=2; h,r-ind=1,1
[4,3]((2,5,16),(3,8,24),(2,5,13),(3,8,20)); lvl=2; h,r-ind=1,1
  [4,3]((4,10,29),(2,5,13),(3,8,22),(3,8,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,14),(3,8,22),(3,8,21)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,13),(2,5,14),(3,8,20),(3,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((5,13,34),(3,8,21),(3,8,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,13),(5,13,34),(3,8,20)); lvl=5; h,r-ind=1,1
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          [3,3]((2,5,14),(5,13,34),(3,8,21)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,13),(2,5,14),(5,13,34)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,29),(2,5,14),(3,8,22)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,16),(4,10,29),(3,8,24),(3,8,22)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,15),(3,8,22),(3,8,23)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,16),(2,5,15),(3,8,24),(3,8,23)); lvl=4; h,r-ind=1,1
          [3,3]((3,8,23),(3,8,24),(5,13,39)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,16),(3,8,24),(5,13,39)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(2,5,16),(5,13,39)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(3,8,23),(5,13,39)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,29),(2,5,15),(3,8,22)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,25),(2,5,16),(3,8,24)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,25),(3,8,24),(1,3,8)); lvl=2; h,r-ind=1,1
[6,3]((3,7,28),(3,7,24),(2,5,20),(3,8,30),(3,8,25),(2,5,16)); lvl=1; h,r-ind=1,1
    [4,3]((3,7,28),(2,5,18),(3,7,26),(2,5,19)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,27),(3,7,26),(2,5,18),(7,17,64)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,26),(5,12,45),(2,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,64),(5,12,45),(2,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,27),(7,17,64),(5,12,45)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,27),(3,7,26),(5,12,45)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,19),(2,5,18),(7,17,64)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,19),(3,7,28),(3,7,27),(7,17,64)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,27),(3,7,28),(5,12,46)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,19),(3,7,28),(5,12,46)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,64),(3,7,27),(5,12,46)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,19),(7,17,64),(5,12,46)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,28),(2,5,20),(2,5,19)); lvl=2; h,r-ind=1,1
    [4,3]((3,8,30),(6,16,55),(2,5,18),(2,5,19)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,28),(2,5,18),(6,16,55)); lvl=3; h,r-ind=1,1
      [4,3]((6,16,57),(3,8,28),(9,23,84),(2,5,18)); lvl=3; h,r-ind=1,1
        [3,3]((3,8,28),(10,26,93),(2,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,47),(10,26,93),(2,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,47),(9,23,84),(2,5,18)); lvl=4; h,r-ind=1,1
        [4,3]((5,13,47),(6,16,57),(3,8,28),(10,26,93)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,8,28),(6,16,57),(8,21,75)); lvl=5; h,r-ind=1,1
          [3,3]((5,13,47),(6,16,57),(8,21,75)); lvl=5; h,r-ind=1,1
          [3,3]((10,26,93),(3,8,28),(8,21,75)); lvl=5; h,r-ind=1,1
          [3,3]((5,13,47),(10,26,93),(8,21,75)); lvl=5; h,r-ind=1,1
      [3,3]((9,23,84),(2,5,19),(2,5,18)); lvl=3; h,r-ind=1,1
      [4,3]((3,8,30),(6,16,57),(9,23,84),(2,5,19)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,5,19),(12,31,114),(5,13,47),(9,23,84)); lvl=4; h,r-ind=1,3
          [3,3]((5,13,47),(7,18,66),(12,31,114)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,19),(7,18,66),(12,31,114)); lvl=5; h,r-ind=1,1
          [3,3]((9,23,84),(5,13,47),(7,18,66)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,19),(9,23,84),(7,18,66)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,29),(12,31,114),(5,13,47)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,8,29),(6,16,57),(5,13,47)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,19),(3,8,30),(3,8,29),(12,31,114)); lvl=4; h,r-ind=1,3
          [3,3]((5,13,48),(3,8,29),(3,8,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,19),(5,13,48),(3,8,30)); lvl=5; h,r-ind=1,1
          [3,3]((12,31,114),(5,13,48),(3,8,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,19),(12,31,114),(5,13,48)); lvl=5; h,r-ind=1,1
    [3,3]((2,5,20),(3,8,30),(2,5,19)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,24),(2,5,17),(2,5,18),(3,7,26)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,17),(2,5,18),(7,17,60)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,25),(3,7,26),(2,5,18),(7,17,60)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,43),(2,5,18),(3,7,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,25),(5,12,43),(3,7,26)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,60),(5,12,43),(2,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,25),(7,17,60),(5,12,43)); lvl=4; h,r-ind=1,1
      [4,3]((3,7,24),(3,7,25),(2,5,17),(7,17,60)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,25),(7,17,60),(5,12,42)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,17),(7,17,60),(5,12,42)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,24),(3,7,25),(5,12,42)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,17),(3,7,24),(5,12,42)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,16),(3,7,24),(2,5,17)); lvl=2; h,r-ind=1,1
    [4,3]((3,8,25),(6,16,55),(2,5,17),(2,5,18)); lvl=2; h,r-ind=1,1
      [3,3]((9,23,79),(2,5,17),(2,5,18)); lvl=3; h,r-ind=1,1
      [4,3]((3,8,27),(6,16,53),(9,23,79),(2,5,18)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,18),(5,13,44),(9,23,79)); lvl=4; h,r-ind=1,1
        [3,3]((10,26,89),(2,5,18),(5,13,44)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,27),(10,26,89),(2,5,18)); lvl=4; h,r-ind=1,1
        [4,3]((3,8,27),(10,26,89),(5,13,44),(6,16,53)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((8,21,71),(10,26,89),(5,13,44)); lvl=5; h,r-ind=1,1
          [3,3]((6,16,53),(8,21,71),(5,13,44)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,27),(6,16,53),(8,21,71)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,27),(8,21,71),(10,26,89)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,27),(6,16,55),(2,5,18)); lvl=3; h,r-ind=1,1
      [4,3]((3,8,25),(6,16,53),(9,23,79),(2,5,17)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,5,17),(12,31,104),(5,13,44),(9,23,79)); lvl=4; h,r-ind=1,3
```

```
        [3,3]((12,31,104),(7,18,61),(5,13,44)); lvl=5; h,r-ind=1,1
        [3,3]((9,23,79),(7,18,61),(5,13,44)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,17),(9,23,79),(7,18,61)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,17),(12,31,104),(7,18,61)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,26),(12,31,104),(5,13,44)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((2,5,17),(3,8,25),(3,8,26),(12,31,104)); lvl=4; h,r-ind=1,3
        [3,3]((3,8,26),(5,13,43),(3,8,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,17),(5,13,43),(3,8,25)); lvl=5; h,r-ind=1,1
        [3,3]((12,31,104),(3,8,26),(5,13,43)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,17),(12,31,104),(5,13,43)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,26),(5,13,44),(6,16,53)); lvl=4; h,r-ind=1,1
  [3,3]((2,5,16),(3,8,25),(2,5,17)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(3,8,30),(3,8,25),(1,3,8)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,9),(6,16,55),(3,8,25)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,3,8),(1,3,9),(3,8,25)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,8),(1,3,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,10),(3,8,30),(1,3,9),(6,16,55)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,9),(6,17,57),(6,16,57),(3,8,28)); lvl=3; h,r-ind=1,1
      [4,3]((3,8,28),(4,11,38),(8,22,75),(6,16,57)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,11,38),(7,19,66),(8,22,75)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,28),(7,19,66),(8,22,75)); lvl=5; h,r-ind=1,1
        [3,3]((6,16,57),(3,8,28),(7,19,66)); lvl=5; h,r-ind=1,1
        [3,3]((6,16,57),(4,11,38),(7,19,66)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,9),(4,11,38),(8,22,75)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,28),(1,3,9),(8,22,75)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(4,11,38),(6,17,57)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,9),(6,16,55),(3,8,28)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,10),(3,8,30),(6,17,57),(6,16,57)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((4,11,38),(3,8,29),(6,16,57)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,38),(9,25,87),(3,8,29)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,3,10),(3,8,30),(9,25,87),(3,8,29)); lvl=4; h,r-ind=1,3
        [3,3]((4,11,39),(3,8,30),(3,8,29)); lvl=5; h,r-ind=1,1
        [3,3]((9,25,87),(4,11,39),(3,8,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(9,25,87),(4,11,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(4,11,39),(3,8,30)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,10),(6,17,57),(4,11,38),(9,25,87)); lvl=4; h,r-ind=1,3
        [3,3]((6,17,57),(5,14,48),(4,11,38)); lvl=5; h,r-ind=1,1
        [3,3]((9,25,87),(5,14,48),(4,11,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(9,25,87),(5,14,48)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(6,17,57),(5,14,48)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,9),(1,3,10),(6,17,57)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,10),(1,3,9)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,3,8),(2,6,11)); lvl=1; h,r-ind=5,5; optimized-h
[6,3]((1,0,0),(0,1,0),(2,2,5),(2,4,9),(4,10,21),(2,6,11)); lvl=1; h,r-ind=1,1
  [5,3]((1,3,5),(2,5,9),(0,1,0),(1,3,3),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,3),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(1,3,4),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(2,5,9),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,9),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(0,1,0),(1,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,4),(0,1,0)); lvl=3; h,r-ind=1,1
  [4,3]((2,4,5),(1,2,3),(1,3,3),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(1,2,3),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(1,3,3),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(1,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(1,2,3)); lvl=3; h,r-ind=1,1
  [5,3]((1,1,2),(2,4,5),(1,2,3),(2,2,3),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((5,8,12),(1,2,3),(6,9,14),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(2,3,5),(7,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,8,12),(1,2,3),(7,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,2),(5,7,11),(6,9,14),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,10,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(5,7,11),(7,10,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(1,1,2),(7,10,16)); lvl=4; h,r-ind=1,1
    [4,3]((2,2,3),(1,1,2),(5,7,11),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(5,7,11),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(3,4,6),(5,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(3,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,4),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(2,3,5)); lvl=3; h,r-ind=1,1
    [6,3]((2,3,4),(3,5,7),(5,7,11),(3,4,6),(5,8,12),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(4,6,9),(6,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(4,6,9),(6,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,11),(4,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,6),(4,6,9)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((3,5,7),(5,8,12),(4,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,7),(4,6,9)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,5),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,5),(3,5,7),(5,8,12),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(5,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(5,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,10),(3,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=4; h,r-ind=1,1
  [4,3]((1,1,2),(2,3,6),(2,3,7),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,9),(2,3,7),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,9),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,9),(2,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,9),(2,2,5),(2,3,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,3),(2,3,6),(2,5,9),(1,2,4),(2,5,7)); lvl=2; h,r-ind=1,1
    [6,3]((3,7,12),(2,5,8),(5,11,18),(3,7,11),(5,11,19),(6,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,11),(4,9,15),(5,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((6,13,22),(4,9,15),(5,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,19),(6,13,22),(4,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,12),(5,11,19),(4,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(3,7,11),(4,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,12),(2,5,8),(4,9,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(2,4,7),(5,11,19),(6,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(6,13,22),(7,15,26)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,19),(6,13,22),(7,15,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(5,11,19),(7,15,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,7),(7,15,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,6),(2,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(2,4,7),(5,11,18),(6,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(6,13,22),(7,15,25)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,18),(6,13,22),(7,15,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,18),(7,15,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,7),(7,15,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(2,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,7),(5,11,18),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,11),(2,5,7),(4,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(4,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,18),(1,2,3),(4,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,18),(3,7,11),(4,9,14)); lvl=4; h,r-ind=1,1
    [4,3]((3,7,12),(1,2,4),(2,5,9),(5,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(4,9,16),(2,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,12),(4,9,16),(2,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,19),(3,7,12),(4,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,19),(1,2,4),(4,9,16)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,12),(2,5,9),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,7),(2,5,8),(3,7,11)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,9),(4,10,19),(1,2,4),(3,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,14),(4,10,19),(5,12,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(4,10,19),(5,12,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,9),(5,12,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,7,14),(5,12,23)); lvl=3; h,r-ind=1,1
  [6,3]((3,8,15),(4,10,19),(3,8,16),(3,7,15),(4,10,21),(3,7,14)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,5,10),(4,10,21),(3,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,14),(2,5,10),(3,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,10,19),(3,7,14),(2,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,15),(4,10,19),(2,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,16),(2,5,10),(4,10,21)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,15),(3,8,16),(2,5,10)); lvl=3; h,r-ind=1,1
  [4,3]((2,4,9),(1,2,4),(3,7,15),(3,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,15),(3,7,14),(4,9,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,7,14),(4,9,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(1,2,4),(4,9,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(3,7,15),(4,9,19)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,6),(2,3,7),(2,4,9),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,5,11),(2,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,11),(2,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,6),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,7),(3,5,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,5),(2,6,11),(0,1,0)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,5),(3,8,15),(2,5,9),(4,10,19)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(4,10,19),(5,13,24)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,15),(4,10,19),(5,13,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(3,8,15),(5,13,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,9),(5,13,24)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,5),(3,8,15),(2,6,11),(3,8,16)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,21),(3,8,16),(3,8,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(4,11,21),(3,8,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(4,11,21),(2,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,21),(2,6,11),(3,8,16)); lvl=3; h,r-ind=1,1
```

```
    [5,3]((1,0,0),(2,4,5),(2,2,3),(0,1,0),(1,3,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,2),(2,3,3),(2,3,4),(2,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((3,5,6),(2,3,4),(2,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,5,6),(2,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(2,3,3),(2,2,3),(2,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(2,2,3),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=3; h,r-ind=1,1
```

21.23 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,6,21)); lvl=0; h,r-ind=21,147
  [5,3]((1,3,8),(2,6,11),(1,2,4),(2,5,15),(1,2,6)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,5),(2,5,12),(2,5,14),(1,2,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,6),(4,9,24),(2,5,13),(2,5,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,19),(4,9,24),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,14),(3,7,19),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,5,14),(3,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(3,7,19),(4,9,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,6),(4,9,24)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,5),(4,9,24),(2,5,12),(2,5,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,12),(3,7,18),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,24),(3,7,18),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(2,5,12),(3,7,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,24),(1,2,5),(3,7,18)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,15),(2,5,14),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,8),(2,5,15),(2,5,14)); lvl=2; h,r-ind=1,1
    [5,3]((2,6,13),(1,3,6),(1,2,4),(1,2,5),(2,5,12)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,11),(5,13,29),(4,11,24),(1,3,6)); lvl=3; h,r-ind=1,1
        [3,3]((4,11,24),(5,13,29),(6,16,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(5,13,29),(6,16,35)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(2,5,11),(6,16,35)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(4,11,24),(6,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,11),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,13),(4,11,24),(1,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,11),(5,13,29),(1,2,5),(4,10,23)); lvl=3; h,r-ind=1,1
        [3,3]((4,10,23),(5,13,29),(6,15,34)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(5,13,29),(6,15,34)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(2,5,11),(6,15,34)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(4,10,23),(6,15,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,11),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(1,2,5),(4,10,23)); lvl=3; h,r-ind=1,1
      [5,3]((2,6,13),(2,5,12),(5,13,29),(4,11,24),(4,10,23)); lvl=3; h,r-ind=1,1
        [3,3]((3,8,18),(4,10,23),(2,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,13),(3,8,18),(2,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,18),(4,10,23),(5,13,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,18),(4,11,24),(5,13,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,13),(3,8,18),(4,11,24)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,11),(1,3,6),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,8),(2,6,13),(2,5,12),(2,5,14)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,7),(2,6,13),(2,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,13),(2,5,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,7),(1,3,8),(2,5,14),(2,5,13)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,8),(2,5,14),(3,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,13),(2,5,14),(3,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(1,3,8),(3,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,13),(1,3,7),(3,8,21)); lvl=4; h,r-ind=1,1
  [4,3]((1,2,7),(1,3,10),(2,5,15),(1,2,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,16),(1,3,10),(2,5,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,16),(1,2,6),(2,5,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,7),(2,5,16),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,7),(2,5,16),(1,3,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,7),(1,2,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,7),(2,6,21),(1,3,10)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,4),(1,2,6)); lvl=1; h,r-ind=4,2; optimized-h
  [3,3]((1,3,8),(1,3,10),(2,5,15)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,3,8),(1,3,10)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,6,21),(0,1,0),(1,3,10)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((0,1,0),(1,3,8),(2,6,11)); lvl=1; h,r-ind=5,5; optimized-h
  [4,3]((1,0,0),(0,1,0),(2,6,11),(1,2,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,3),(0,1,0)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(1,3,3),(0,1,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,6,11),(1,3,5),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,6,11),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,5),(1,3,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,0,0),(1,1,2),(1,2,3),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(4,6,9),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,3),(1,3,3),(4,6,9),(1,2,3)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,2,2),(1,3,3),(1,2,3),(5,9,12)); lvl=4; h,r-ind=1,3
          [3,3]((2,4,5),(1,3,3),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((5,9,12),(2,4,5),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(5,9,12),(2,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(2,4,5),(1,3,3)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,4),(4,6,9),(1,2,3),(5,9,12)); lvl=4; h,r-ind=1,3
          [3,3]((3,5,7),(4,6,9),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((5,9,12),(3,5,7),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,4),(5,9,12),(3,5,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,4),(3,5,7),(4,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,4),(1,2,2),(5,9,12)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,3,3),(2,3,4),(1,2,2)); lvl=4; h,r-ind=1,1
      [4,3]((1,0,0),(2,3,3),(1,1,2),(4,6,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,1,2),(5,6,9),(2,3,4),(4,6,9)); lvl=4; h,r-ind=1,3
          [3,3]((2,3,4),(3,4,6),(5,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(3,4,6),(5,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,9),(1,1,2),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,9),(2,3,4),(3,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(5,6,9),(2,3,4)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,1,1),(2,3,3),(2,3,4)); lvl=4; h,r-ind=1,1
        [4,3]((1,0,0),(1,1,2),(1,1,1),(5,6,9)); lvl=4; h,r-ind=1,3
          [3,3]((1,1,2),(2,2,3),(5,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(5,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=5; h,r-ind=1,1
    [4,3]((1,1,2),(1,2,3),(1,2,4),(1,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,5),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,1,2),(2,4,7)); lvl=3; h,r-ind=1,1
```

21.24 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,7,21)); lvl=0; h,r-ind=21,63
  [5,3]((3,11,22),(2,8,11),(1,4,7),(4,14,21),(2,7,14)); lvl=1; h,r-ind=1,1
    [4,3]((3,11,21),(2,7,14),(2,7,12),(6,22,37)); lvl=2; h,r-ind=1,1
      [4,3]((3,11,19),(6,22,39),(2,7,12),(2,7,13)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,12),(2,7,13),(5,18,32)); lvl=4; h,r-ind=1,1
        [3,3]((6,22,39),(2,7,13),(5,18,32)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,19),(2,7,12),(5,18,32)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,19),(6,22,39),(5,18,32)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,21),(6,22,39),(2,7,14),(2,7,13)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,14),(2,7,13),(7,25,47)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,20),(2,7,13),(7,25,47)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,20),(6,22,39),(2,7,13)); lvl=4; h,r-ind=1,1
        [4,3]((3,11,21),(3,11,20),(2,7,14),(7,25,47)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,11,20),(7,25,47),(5,18,34)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,14),(7,25,47),(5,18,34)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,21),(3,11,20),(5,18,34)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,14),(3,11,21),(5,18,34)); lvl=5; h,r-ind=1,1
      [3,3]((6,22,37),(3,11,19),(2,7,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(2,7,11),(2,7,12),(6,22,37)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,18),(2,7,12),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(3,11,18),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,22,37),(3,11,18),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(6,22,37),(3,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(3,11,16),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,16),(4,14,21),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,11),(1,4,6),(3,11,16)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,6),(3,11,21),(1,4,7),(6,22,37)); lvl=2; h,r-ind=1,1
      [4,3]((6,23,39),(1,4,7),(6,22,39),(3,11,21)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,4,7),(9,34,60),(3,11,20),(3,11,21)); lvl=4; h,r-ind=1,3
          [3,3]((4,15,27),(9,34,60),(3,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,21),(4,15,27),(3,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(3,11,21),(4,15,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(4,15,27),(9,34,60)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,26),(9,34,60),(3,11,20)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
```

```
      [4,3]((1,4,7),(6,23,39),(4,15,26),(9,34,60)); lvl=4; h,r-ind=1,3
        [3,3]((6,23,39),(4,15,26),(5,19,33)); lvl=5; h,r-ind=1,1
        [3,3]((9,34,60),(4,15,26),(5,19,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(9,34,60),(5,19,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(6,23,39),(5,19,33)); lvl=5; h,r-ind=1,1
      [3,3]((4,15,26),(3,11,20),(6,22,39)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,6),(6,23,39),(3,11,19),(6,22,39)); lvl=3; h,r-ind=1,1
      [4,3]((3,11,19),(8,30,51),(6,22,39),(4,15,26)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,26,45),(4,15,26),(8,30,51)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,19),(7,26,45),(8,30,51)); lvl=5; h,r-ind=1,1
        [3,3]((6,22,39),(7,26,45),(4,15,26)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,19),(6,22,39),(7,26,45)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(8,30,51),(4,15,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(6,23,39),(4,15,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(3,11,19),(8,30,51)); lvl=4; h,r-ind=1,1
    [3,3]((6,22,37),(1,4,6),(3,11,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(6,23,39),(1,4,7)); lvl=3; h,r-ind=1,1
  [3,3]((3,11,21),(3,11,22),(2,7,14)); lvl=2; h,r-ind=1,1
  [3,3]((3,11,21),(1,4,7),(3,11,22)); lvl=2; h,r-ind=1,1
[5,3]((1,0,0),(1,2,6),(1,3,7),(4,14,21),(2,7,14)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,11),(1,3,6),(1,3,7),(2,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,18),(1,3,7),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(3,8,18),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,12),(3,8,18),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(2,5,12),(3,8,18)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,6),(1,3,7),(2,5,12)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,6),(1,2,4),(2,5,11),(2,5,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(5,12,28),(1,2,4),(2,5,11)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,12,28),(3,7,16),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,16),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(3,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(5,12,28),(3,7,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,12),(5,12,28),(2,5,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,6),(1,2,5),(2,5,12),(5,12,28)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,12,28),(1,2,5),(3,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(1,2,5),(3,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(1,2,6),(3,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(5,12,28),(3,7,17)); lvl=4; h,r-ind=1,1
  [3,3]((1,1,3),(1,2,6),(1,2,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(1,1,3),(1,2,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,3,6),(2,7,14),(1,3,7)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,12),(1,3,6),(2,6,11),(2,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((4,13,24),(2,6,11),(1,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,14),(2,7,13),(4,13,24),(1,3,6)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,13),(4,13,24),(3,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(4,13,24),(3,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,14),(2,7,13),(3,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,14),(3,10,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,12),(2,7,13),(4,13,24)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,7,12),(4,13,24),(2,6,11)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,7,11),(1,3,5),(2,7,12),(2,6,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,17),(1,3,5),(2,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,12),(3,10,17),(2,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,11),(2,7,12),(3,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,11),(3,10,17),(1,3,5)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,4),(2,5,11),(1,3,6),(2,6,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,10),(2,5,11),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,11),(2,5,10),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,6,11),(2,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,10),(2,5,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,5),(1,2,4),(2,6,11)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(1,3,5),(2,6,9),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(2,5,8),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,8),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,6,9),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(2,5,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,2,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((4,14,21),(2,7,11),(1,3,5),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(2,7,11),(6,20,31)); lvl=3; h,r-ind=1,1
    [4,3]((4,14,21),(3,10,15),(2,7,11),(6,20,31)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,17,26),(3,10,15),(6,20,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(5,17,26),(6,20,31)); lvl=4; h,r-ind=1,1
      [3,3]((4,14,21),(5,17,26),(3,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(4,14,21),(5,17,26)); lvl=4; h,r-ind=1,1
    [4,3]((2,6,9),(3,10,15),(1,3,5),(6,20,31)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,13,20),(3,10,15),(6,20,31)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,20),(1,3,5),(6,20,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(4,13,20),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(4,13,20),(3,10,15)); lvl=4; h,r-ind=1,1
[6,3]((3,11,22),(2,7,20),(3,11,30),(1,3,9),(1,3,7),(2,7,14)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((2,7,15),(1,3,7),(2,7,14)); lvl=2; h,r-ind=1,1
  [3,3]((3,11,22),(2,7,15),(2,7,14)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,15),(2,7,17),(1,3,8),(1,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,16),(2,7,17),(1,3,8),(4,13,31)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,17),(3,10,24),(1,3,8)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,31),(3,10,24),(1,3,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,16),(4,13,31),(3,10,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,16),(2,7,17),(3,10,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,7),(1,3,8),(4,13,31)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,7),(2,7,15),(2,7,16),(4,13,31)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,10,23),(2,7,15),(2,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,31),(3,10,23),(2,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(4,13,31),(3,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(3,10,23),(2,7,15)); lvl=4; h,r-ind=1,1
  [4,3]((3,11,22),(3,11,26),(2,7,15),(2,7,17)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((3,11,26),(3,11,24),(2,7,17),(2,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,17),(7,25,58),(2,7,16)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,25),(3,11,24),(7,25,58),(2,7,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,18,41),(2,7,16),(3,11,24)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,25),(5,18,41),(3,11,24)); lvl=5; h,r-ind=1,1
        [3,3]((7,25,58),(5,18,41),(2,7,16)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,25),(7,25,58),(5,18,41)); lvl=5; h,r-ind=1,1
      [4,3]((3,11,26),(3,11,25),(2,7,17),(7,25,58)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,18,42),(3,11,25),(7,25,58)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,17),(5,18,42),(7,25,58)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,26),(5,18,42),(3,11,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,17),(3,11,26),(5,18,42)); lvl=5; h,r-ind=1,1
    [4,3]((3,11,22),(3,11,24),(2,7,15),(2,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,15),(2,7,16),(7,25,54)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,24),(3,11,23),(2,7,16),(7,25,54)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,23),(7,25,54),(5,18,39)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,16),(7,25,54),(5,18,39)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,24),(3,11,23),(5,18,39)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,16),(3,11,24),(5,18,39)); lvl=5; h,r-ind=1,1
      [4,3]((3,11,22),(3,11,23),(2,7,15),(7,25,54)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,23),(5,18,38),(7,25,54)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,15),(5,18,38),(7,25,54)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,22),(3,11,23),(5,18,38)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,15),(3,11,22),(5,18,38)); lvl=5; h,r-ind=1,1
  [4,3]((2,7,19),(3,11,30),(3,11,26),(2,7,17)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((2,7,18),(2,7,17),(3,11,28),(3,11,26)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,18),(7,25,62),(3,11,28),(3,11,27)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,18,45),(3,11,27),(3,11,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,18),(5,18,45),(3,11,28)); lvl=5; h,r-ind=1,1
        [3,3]((7,25,62),(5,18,45),(3,11,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,18),(7,25,62),(5,18,45)); lvl=5; h,r-ind=1,1
      [4,3]((2,7,17),(7,25,62),(3,11,26),(3,11,27)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,18,44),(3,11,26),(3,11,27)); lvl=5; h,r-ind=1,1
        [3,3]((7,25,62),(5,18,44),(3,11,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,17),(7,25,62),(5,18,44)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,17),(5,18,44),(3,11,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,17),(2,7,18),(7,25,62)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,18),(2,7,19),(3,11,30),(3,11,28)); lvl=3; h,r-ind=1,1
      [4,3]((7,25,66),(3,11,29),(2,7,19),(3,11,30)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,18,48),(3,11,30),(3,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((7,25,66),(5,18,48),(3,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((5,18,48),(2,7,19),(3,11,30)); lvl=5; h,r-ind=1,1
        [3,3]((7,25,66),(5,18,48),(2,7,19)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,18),(7,25,66),(2,7,19)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,18),(7,25,66),(3,11,28),(3,11,29)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,28),(5,18,47),(3,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((7,25,66),(5,18,47),(3,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,18),(7,25,66),(5,18,47)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,18),(3,11,28),(5,18,47)); lvl=5; h,r-ind=1,1
  [3,3]((2,7,20),(2,7,19),(3,11,30)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,19),(1,3,9),(2,7,17),(1,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,9),(1,3,8),(4,13,35)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,18),(2,7,17),(1,3,8),(4,13,35)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,10,26),(1,3,8),(2,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,18),(3,10,26),(2,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,35),(3,10,26),(1,3,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,18),(4,13,35),(3,10,26)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,19),(2,7,18),(1,3,9),(4,13,35)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,18),(4,13,35),(3,10,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(4,13,35),(3,10,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,19),(2,7,18),(3,10,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(2,7,19),(3,10,27)); lvl=4; h,r-ind=1,1
  [3,3]((2,7,20),(2,7,19),(1,3,9)); lvl=2; h,r-ind=1,1
[3,3]((2,7,21),(2,7,20),(1,3,9)); lvl=1; h,r-ind=1,1
[3,3]((2,7,21),(2,7,20),(3,11,30)); lvl=1; h,r-ind=1,1
```

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[3,3]((1,3,9),(1,2,6),(1,3,7)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((0,1,0),(3,11,22),(3,11,30),(1,4,7)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,8),(2,8,17),(3,11,26),(3,11,22)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,17),(7,27,58),(3,11,26)); lvl=3; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,11,24),(7,27,58),(3,11,26)); lvl=3; h,r-ind=8,4; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,4,8),(3,11,22),(3,11,24),(7,27,58)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,4,8),(5,19,40),(3,11,23),(3,11,22)); lvl=4; h,r-ind=1,2
        [3,3]((3,11,23),(4,15,31),(5,19,40)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(4,15,31),(5,19,40)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,22),(1,4,8),(4,15,31)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,22),(3,11,23),(4,15,31)); lvl=5; h,r-ind=1,1
      [3,3]((5,19,40),(3,11,24),(3,11,23)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((5,19,41),(5,19,40),(3,11,24)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,4,8),(7,27,58),(5,19,41),(5,19,40)); lvl=4; h,r-ind=1,2
        [3,3]((7,27,58),(6,23,49),(5,19,41)); lvl=5; h,r-ind=1,1
        [3,3]((5,19,40),(6,23,49),(5,19,41)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(7,27,58),(6,23,49)); lvl=5; h,r-ind=1,1
        [3,3]((5,19,40),(1,4,8),(6,23,49)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,8),(2,8,17),(7,27,58)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,8),(1,4,7),(3,11,22)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,8),(1,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,8),(2,8,17)); lvl=2; h,r-ind=1,1
  [4,3]((3,11,30),(1,4,10),(2,8,17),(3,11,26)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,26),(2,8,17),(1,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,26),(3,11,28),(1,4,9)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((3,11,30),(3,11,28),(1,4,10),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,10),(5,19,48),(1,4,9)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,29),(3,11,28),(5,19,48),(1,4,9)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,28),(4,15,38),(1,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((5,19,48),(4,15,38),(1,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,29),(5,19,48),(4,15,38)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,29),(3,11,28),(4,15,38)); lvl=5; h,r-ind=1,1
      [4,3]((3,11,30),(3,11,29),(1,4,10),(5,19,48)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,29),(5,19,48),(4,15,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,10),(5,19,48),(4,15,39)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,30),(1,4,10),(4,15,39)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,30),(3,11,29),(4,15,39)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,10),(2,8,17)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[3,3]((2,7,21),(0,1,0),(3,11,30)); lvl=1; h,r-ind=3,3; optimized-h
[4,3]((0,1,0),(1,0,0),(2,8,11),(4,14,21)); lvl=1; h,r-ind=1,1
  [5,3]((4,14,19),(3,11,15),(4,14,21),(3,11,16),(2,6,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc
    [3,3]((3,11,16),(2,7,10),(3,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,14,19),(2,7,10),(3,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,14,19),(3,10,14),(2,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,14),(2,6,9),(2,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,16),(2,7,10),(4,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,10),(4,14,21),(3,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(2,7,10),(3,10,15)); lvl=3; h,r-ind=1,1
  [6,3]((4,14,19),(2,7,9),(1,2,2),(1,3,3),(1,2,3),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,9),(1,3,4),(4,14,19)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,14),(1,3,4),(4,14,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(3,10,14),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,6,9),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(2,7,9),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,2),(1,0,0),(1,2,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,4,5),(2,7,9),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,9),(3,11,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(3,11,12),(2,7,9),(3,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,8),(3,11,13),(3,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,8),(3,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,9),(1,3,3),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,9),(2,7,8),(3,11,13)); lvl=4; h,r-ind=1,1
    [4,3]((3,11,12),(1,4,5),(1,4,4),(3,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,4,5),(4,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,13),(1,4,5),(4,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,12),(1,4,4),(4,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,13),(3,11,12),(4,15,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,3),(3,11,12),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(1,4,4)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,5),(4,14,19),(2,7,9),(3,11,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,9),(4,14,19),(5,18,24)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,15),(4,14,19),(5,18,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(3,11,15),(5,18,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,9),(5,18,24)); lvl=3; h,r-ind=1,1
  [4,3]((2,8,11),(1,4,5),(3,11,15),(3,11,16)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((1,4,5),(4,15,21),(3,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,16),(4,15,21),(3,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(1,4,5),(4,15,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,16),(2,8,11),(4,15,21)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,8,11),(1,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,8,11),(1,4,7)); lvl=1; h,r-ind=3,3; optimized-h
```

21.25 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,8,21)); lvl=0; h,r-ind=21,441
  [5,3]((2,7,14),(2,7,16),(1,3,7),(1,3,6),(2,5,11)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,6),(2,6,13),(2,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(2,6,13),(2,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((6,19,41),(5,16,35),(1,3,7),(2,6,13)); lvl=2; h,r-ind=1,1
      [3,3]((7,22,48),(1,3,7),(5,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((6,19,41),(7,22,48),(5,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,13),(7,22,48),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((6,19,41),(2,6,13),(7,22,48)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,16),(3,10,22),(5,16,35),(1,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,29),(3,10,22),(5,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(4,13,29),(5,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,16),(4,13,29),(3,10,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,7,16),(4,13,29)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,6),(6,19,41),(2,6,13),(5,16,34)); lvl=2; h,r-ind=1,1
      [3,3]((2,6,13),(6,19,41),(7,22,47)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,34),(6,19,41),(7,22,47)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,6,13),(7,22,47)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,34),(1,3,6),(7,22,47)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,14),(1,3,6),(5,16,34),(3,10,21)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,6),(5,16,34),(4,13,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,21),(5,16,34),(4,13,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,14),(3,10,21),(4,13,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,14),(1,3,6),(4,13,27)); lvl=3; h,r-ind=1,1
    [6,3]((2,7,15),(3,10,22),(6,19,41),(5,16,35),(5,16,34),(3,10,21)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,28),(3,10,22),(2,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,21),(4,13,28),(2,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,34),(3,10,21),(4,13,28)); lvl=3; h,r-ind=1,1
      [3,3]((6,19,41),(5,16,34),(4,13,28)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,35),(4,13,28),(3,10,22)); lvl=3; h,r-ind=1,1
      [3,3]((6,19,41),(5,16,35),(4,13,28)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,14),(2,7,15),(3,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,16),(2,7,15),(3,10,22)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(2,3,7),(2,6,9),(1,3,6),(2,5,11)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,6),(2,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,6),(1,2,4),(2,4,9),(2,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,6,13),(1,2,4),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(3,6,13),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,6,13),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(2,3,6),(3,6,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,6),(2,3,7),(2,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,6),(2,4,9),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,4,9),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(1,1,2),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(1,3,5),(3,6,11),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,9),(1,3,5),(3,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(3,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,6),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,9),(1,3,5)); lvl=3; h,r-ind=1,1
    [5,3]((3,5,9),(4,7,13),(1,3,5),(1,2,3),(3,6,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,7),(1,3,5),(3,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,13),(2,4,7),(3,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(4,7,13),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(1,2,3),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(2,4,7),(1,2,3)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,2),(3,5,9),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(3,5,9),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,9),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,2),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,0,0),(2,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,6),(3,5,9),(4,7,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,6),(4,7,13),(5,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(4,7,13),(5,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(5,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(1,1,2),(5,8,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(1,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
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    [4,3]((2,3,6),(1,2,4),(4,7,13),(3,6,11)); lvl=2; h,r-ind=1,1
      [3,3]((5,9,17),(3,6,11),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(5,9,17),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,13),(5,9,17),(3,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(4,7,13),(5,9,17)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,6,9),(2,8,11)); lvl=1; h,r-ind=1,1
    [4,3]((2,7,9),(2,7,10),(1,2,3),(2,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,10),(2,6,9),(5,16,23)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(1,2,3),(2,6,9),(5,16,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,9),(3,9,13),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,9,13),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,23),(1,3,4),(3,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,23),(2,6,9),(3,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,10),(5,16,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(1,3,4),(2,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(1,2,2),(2,7,9),(1,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((3,8,9),(1,3,4),(1,2,2),(1,2,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,2),(1,2,3),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,2,3),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(1,2,2),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,9),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(3,8,9),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,3,4),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,8,9),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(1,0,0),(1,2,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((0,1,0),(1,4,5),(1,3,3),(2,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,9),(3,11,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(3,11,12),(2,7,9),(3,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,8),(3,11,13),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,9),(1,3,3),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,9),(2,7,8),(3,11,13)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,12),(1,4,5),(1,4,4),(3,11,13)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,4),(1,4,5),(4,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,13),(1,4,5),(4,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,12),(1,4,4),(4,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,13),(3,11,12),(4,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(3,11,12),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,5),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(2,7,9),(2,8,11),(2,7,10)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,15),(2,7,10),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,11,15),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,8,11),(3,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(3,11,15),(2,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(2,8,11)); lvl=2; h,r-ind=1,1
  [5,3]((2,6,15),(1,2,5),(2,3,7),(1,3,7),(2,5,11)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,16),(2,4,9),(2,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,7),(3,7,16),(5,12,28),(2,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,28),(4,10,23),(3,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(4,10,23),(3,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,11),(4,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(5,12,28),(4,10,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,15),(1,3,7),(2,5,12)); lvl=2; h,r-ind=1,1
    [6,3]((5,11,26),(6,14,33),(3,7,16),(5,12,28),(2,4,9),(3,6,14)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,21),(2,4,9),(3,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,21),(5,11,26),(3,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,33),(4,9,21),(5,11,26)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,28),(6,14,33),(4,9,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,16),(4,9,21),(2,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,16),(5,12,28),(4,9,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(2,3,7),(3,6,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(5,11,26),(2,3,7),(3,6,14)); lvl=2; h,r-ind=1,1
      [3,3]((3,6,14),(5,11,26),(4,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(5,11,26),(4,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(1,2,5),(4,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(3,6,14),(4,8,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,7),(2,5,12),(6,14,33),(5,12,28)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,12),(6,14,33),(7,17,40)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,28),(6,14,33),(7,17,40)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,12),(7,17,40)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,28),(1,3,7),(7,17,40)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(5,11,26),(2,5,12),(6,14,33)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,26),(6,14,33),(7,16,38)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(6,14,33),(7,16,38)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(5,11,26),(7,16,38)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(1,2,5),(7,16,38)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,15),(1,2,5),(2,5,12)); lvl=2; h,r-ind=1,1
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[5,3]((2,7,18),(5,17,44),(2,6,15),(1,2,5),(3,7,18)); lvl=1; h,r-ind=1,1
  [6,3]((4,12,31),(6,19,49),(9,28,72),(5,14,36),(8,23,59),(10,30,77)); lvl=2; h,r-ind=1,1
    [3,3]((7,21,54),(8,23,59),(10,30,77)); lvl=3; h,r-ind=1,1
    [3,3]((9,28,72),(7,21,54),(10,30,77)); lvl=3; h,r-ind=1,1
    [3,3]((6,19,49),(9,28,72),(7,21,54)); lvl=3; h,r-ind=1,1
    [3,3]((7,21,54),(5,14,36),(8,23,59)); lvl=3; h,r-ind=1,1
    [3,3]((4,12,31),(7,21,54),(5,14,36)); lvl=3; h,r-ind=1,1
    [3,3]((6,19,49),(4,12,31),(7,21,54)); lvl=3; h,r-ind=1,1
  [4,3]((3,9,23),(1,2,5),(8,23,59),(10,30,77)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(8,23,59),(11,32,82)); lvl=3; h,r-ind=1,1
    [3,3]((10,30,77),(8,23,59),(11,32,82)); lvl=3; h,r-ind=1,1
    [3,3]((3,9,23),(1,2,5),(11,32,82)); lvl=3; h,r-ind=1,1
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    [3,3]((12,37,95),(10,30,77),(3,9,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,18),(12,37,95),(3,9,23)); lvl=3; h,r-ind=1,1
    [3,3]((9,28,72),(2,7,18),(12,37,95)); lvl=3; h,r-ind=1,1
    [3,3]((9,28,72),(12,37,95),(10,30,77)); lvl=3; h,r-ind=1,1
  [3,3]((2,6,15),(3,9,23),(1,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,18),(2,6,15),(3,9,23)); lvl=2; h,r-ind=1,1
  [3,3]((5,17,44),(4,12,31),(6,19,49)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,18),(5,17,44),(6,19,49),(9,28,72)); lvl=2; h,r-ind=1,1
    [3,3]((8,26,67),(5,17,44),(6,19,49)); lvl=3; h,r-ind=1,1
    [3,3]((9,28,72),(8,26,67),(6,19,49)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,18),(9,28,72),(8,26,67)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,18),(8,26,67),(5,17,44)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,5),(3,7,18),(5,14,36),(8,23,59)); lvl=2; h,r-ind=1,1
    [3,3]((5,14,36),(3,7,18),(6,16,41)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(3,7,18),(6,16,41)); lvl=3; h,r-ind=1,1
    [3,3]((8,23,59),(1,2,5),(6,16,41)); lvl=3; h,r-ind=1,1
    [3,3]((8,23,59),(5,14,36),(6,16,41)); lvl=3; h,r-ind=1,1
  [3,3]((4,12,31),(3,7,18),(5,14,36)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,2,5),(3,7,18)); lvl=1; h,r-ind=1,1
[4,3]((2,8,21),(5,17,44),(1,0,0),(3,7,18)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,13),(5,15,39),(3,7,18),(4,12,31)); lvl=2; h,r-ind=1,1
    [3,3]((6,17,44),(5,15,39),(4,12,31)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,18),(6,17,44),(4,12,31)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,13),(6,17,44),(5,15,39)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,13),(3,7,18),(6,17,44)); lvl=3; h,r-ind=1,1
  [4,3]((5,15,39),(3,10,26),(5,17,44),(4,12,31)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,26),(5,17,44),(7,22,57)); lvl=3; h,r-ind=1,1
    [3,3]((4,12,31),(5,17,44),(7,22,57)); lvl=3; h,r-ind=1,1
    [3,3]((5,15,39),(3,10,26),(7,22,57)); lvl=3; h,r-ind=1,1
    [3,3]((4,12,31),(5,15,39),(7,22,57)); lvl=3; h,r-ind=1,1
  [3,3]((2,8,21),(3,10,26),(5,17,44)); lvl=2; h,r-ind=1,1
  [3,3]((2,8,21),(5,15,39),(3,10,26)); lvl=2; h,r-ind=1,1
  [3,3]((2,8,21),(2,5,13),(5,15,39)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,13),(1,0,0),(3,7,18)); lvl=2; h,r-ind=1,1
  [3,3]((2,8,21),(2,5,13),(1,0,0)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,2,5),(2,3,7)); lvl=1; h,r-ind=1,1
[5,3]((2,6,9),(2,8,11),(1,4,7),(2,7,14),(1,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,10),(1,4,6),(2,8,11)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,10),(1,3,5),(1,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((2,6,9),(2,7,10),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,5),(4,14,23),(1,4,6)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,13),(4,14,23),(1,4,7),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,7),(4,15,25),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,12),(4,15,25),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,12),(4,14,23),(1,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,13),(2,7,12),(1,4,7),(4,15,25)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,12),(4,15,25),(3,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(4,15,25),(3,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,13),(1,4,7),(3,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,13),(2,7,12),(3,11,19)); lvl=4; h,r-ind=1,1
  [3,3]((2,7,13),(1,4,7),(2,7,14)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,13),(1,3,6),(2,7,14)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,5),(2,7,13),(4,14,23),(1,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,6),(4,13,23),(2,7,12),(2,7,13)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,13,23),(3,10,18),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,13),(3,10,18),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,13),(3,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(4,13,23),(3,10,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,6),(4,13,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(4,13,23),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(4,14,23),(2,7,12)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(2,8,11),(1,4,7)); lvl=1; h,r-ind=3,3; optimized-h
[4,3]((1,4,10),(1,4,7),(2,7,14),(2,7,16)); lvl=1; h,r-ind=1,1
  [4,3]((2,8,17),(2,7,15),(1,4,7),(2,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,15),(5,18,37),(2,7,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,8),(1,4,7),(5,18,37),(2,7,14)); lvl=3; h,r-ind=1,2; alert-r-inc
```

```
      [3,3]((1,4,7),(3,11,22),(2,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((5,18,37),(3,11,22),(2,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,4,7),(3,11,22)); lvl=4; h,r-ind=1,1
      [3,3]((5,18,37),(1,4,8),(3,11,22)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(2,7,15),(5,18,37)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(2,8,17),(2,7,15)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,10),(2,8,17),(2,7,15),(2,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,9),(2,7,15),(5,18,40)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,16),(2,7,15),(5,18,40)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,16),(1,4,10),(1,4,9),(5,18,40)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,11,25),(1,4,10),(1,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((5,18,40),(3,11,25),(1,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,16),(5,18,40),(3,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,16),(3,11,25),(1,4,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,9),(2,8,17),(2,7,15)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,4,10),(1,4,7)); lvl=1; h,r-ind=3,3; optimized-h
[5,3]((1,4,10),(2,7,18),(2,6,15),(2,7,16),(1,3,7)); lvl=1; h,r-ind=1,1
  [4,3]((2,7,17),(1,3,7),(4,13,32),(5,17,42)); lvl=2; h,r-ind=1,1
    [3,3]((4,13,32),(1,3,7),(6,20,49)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,17),(1,3,7),(6,20,49)); lvl=3; h,r-ind=1,1
    [3,3]((5,17,42),(2,7,17),(6,20,49)); lvl=3; h,r-ind=1,1
    [3,3]((5,17,42),(4,13,32),(6,20,49)); lvl=3; h,r-ind=1,1
  [5,3]((2,7,18),(4,14,35),(2,6,15),(4,13,32),(5,17,42)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,25),(4,13,32),(5,17,42)); lvl=3; h,r-ind=1,1
    [3,3]((4,14,35),(3,10,25),(5,17,42)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,18),(4,14,35),(3,10,25)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,25),(2,6,15),(4,13,32)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,18),(3,10,25),(2,6,15)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,10),(2,7,17),(4,14,35),(5,17,42)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,17),(5,17,42),(6,21,52)); lvl=3; h,r-ind=1,1
    [3,3]((4,14,35),(5,17,42),(6,21,52)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,10),(2,7,17),(6,21,52)); lvl=3; h,r-ind=1,1
    [3,3]((4,14,35),(1,4,10),(6,21,52)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,10),(2,7,18),(4,14,35)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,16),(2,7,17),(1,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,10),(2,7,16),(2,7,17)); lvl=2; h,r-ind=1,1
  [3,3]((2,6,15),(1,3,7),(4,13,32)); lvl=2; h,r-ind=1,1
[3,3]((2,8,21),(1,4,10),(2,7,18)); lvl=1; h,r-ind=1,1
[3,3]((0,1,0),(2,8,21),(1,4,10)); lvl=1; h,r-ind=1,1
[3,3]((2,8,21),(2,7,18),(5,17,44)); lvl=1; h,r-ind=1,1
```

21.26 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,9,21)); lvl=0; h,r-ind=21,147
  [5,3]((1,3,6),(1,4,5),(1,4,6),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,4),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(1,3,5),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(1,4,6),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,5),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,0,0),(0,1,0),(1,4,5),(2,10,11),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,5,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,4,5),(1,3,4),(1,3,3),(1,5,5)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,4),(3,11,13),(1,4,4),(1,3,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,8),(3,11,13),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,3,3),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,8),(3,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,4),(3,11,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,5),(1,4,5),(3,11,13),(1,4,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,8,9),(3,11,13),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(2,8,9),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(1,4,4),(3,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(2,8,9),(1,4,4)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,11),(1,4,5),(1,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(1,2,3),(1,3,4),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,9),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(1,3,3),(3,7,9),(1,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,3),(2,5,6),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(2,5,6),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,3),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(1,2,2),(2,5,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,1),(1,2,2),(1,2,3),(3,7,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,2),(3,7,9),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(3,7,9),(2,4,5)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,1,1),(1,2,2),(2,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,1),(2,4,5)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((2,10,11),(0,1,0),(1,5,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,1),(0,1,0),(1,3,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
[5,3]((1,4,5),(1,5,6),(2,10,11),(1,4,6),(2,9,13)); lvl=1; h,r-ind=1,1
  [4,3]((3,14,17),(4,18,23),(1,5,6),(2,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,18,23),(2,9,12),(5,23,29)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,12),(5,23,29)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,17),(1,5,6),(5,23,29)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,17),(4,18,23),(5,23,29)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,13),(1,5,6),(2,9,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,6),(2,9,13),(2,9,12)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,6),(4,18,23),(3,13,17),(2,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,13,17),(4,18,23),(5,22,29)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(4,18,23),(5,22,29)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,9,12),(5,22,29)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(3,13,17),(5,22,29)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,5),(1,4,6),(3,13,17)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,5),(3,14,17),(4,18,23),(3,13,17)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,11),(9,40,51),(3,14,17),(4,18,23)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((6,27,34),(9,40,51),(4,18,23)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,17),(6,27,34),(4,18,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,11),(3,14,17),(6,27,34)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,11),(6,27,34),(9,40,51)); lvl=4; h,r-ind=1,1
    [3,3]((3,13,17),(9,40,51),(4,18,23)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(2,9,11),(3,13,17),(9,40,51)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,22,28),(9,40,51),(2,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(5,22,28),(2,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((5,22,28),(3,13,17),(9,40,51)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(5,22,28),(3,13,17)); lvl=4; h,r-ind=1,1
  [3,3]((3,14,17),(2,10,11),(1,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,5),(3,14,17),(2,10,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[4,3]((0,1,0),(2,9,20),(1,5,6),(2,9,13)); lvl=1; h,r-ind=1,1
  [4,3]((1,5,7),(1,5,8),(4,18,33),(2,9,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,8),(4,18,33),(2,9,16)); lvl=3; h,r-ind=1,1
    [4,3]((6,29,45),(2,9,15),(1,5,8),(2,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,15),(2,9,16),(3,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,9,16),(3,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((8,38,61),(1,5,8),(3,14,23)); lvl=4; h,r-ind=1,1
      [4,3]((4,19,30),(6,29,45),(8,38,61),(1,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((6,29,45),(5,24,38),(1,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((8,38,61),(5,24,38),(1,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,30),(6,29,45),(5,24,38)); lvl=5; h,r-ind=1,1
        [3,3]((8,38,61),(4,19,30),(5,24,38)); lvl=5; h,r-ind=1,1
      [4,3]((4,19,30),(8,38,61),(2,9,15),(3,14,23)); lvl=4; h,r-ind=1,1
        [3,3]((7,33,53),(3,14,23),(8,38,61)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,30),(7,33,53),(8,38,61)); lvl=5; h,r-ind=1,1
        [3,3]((7,33,53),(2,9,15),(3,14,23)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,30),(7,33,53),(2,9,15)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,7),(6,29,45),(1,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,7),(6,29,45),(2,9,13),(2,9,15)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [3,3]((2,9,15),(4,19,29),(2,9,14)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,5,7),(2,9,13),(4,19,29),(2,9,14)); lvl=4; h,r-ind=1,2
        [3,3]((3,14,21),(2,9,14),(2,9,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(3,14,21),(2,9,13)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,21),(4,19,29),(2,9,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(3,14,21),(4,19,29)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,15),(4,19,30),(4,19,29)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,5,7),(6,29,45),(4,19,30),(4,19,29)); lvl=4; h,r-ind=1,2
        [3,3]((4,19,30),(5,24,37),(6,29,45)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(5,24,37),(6,29,45)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,29),(1,5,7),(5,24,37)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,29),(4,19,30),(5,24,37)); lvl=5; h,r-ind=1,1
  [3,3]((1,5,7),(1,5,6),(2,9,13)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,7),(1,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,8),(1,5,10),(2,9,20),(4,18,33)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,10),(1,5,9),(2,9,20),(2,9,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,9),(4,19,38),(2,9,18),(2,9,19)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,28),(2,9,18),(2,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,38),(3,14,28),(2,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(4,19,38),(3,14,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(3,14,28),(2,9,18)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,10),(4,19,38),(2,9,20),(2,9,19)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,20),(3,14,29),(2,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,38),(3,14,29),(2,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(2,9,20),(3,14,29)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,38),(1,5,10),(3,14,29)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(1,5,9),(4,19,38)); lvl=4; h,r-ind=1,1
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    [4,3]((1,5,8),(2,9,17),(1,5,9),(2,9,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,17),(2,9,18),(3,14,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,9,18),(3,14,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(1,5,9),(3,14,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,9,17),(3,14,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(4,18,33),(2,9,17)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,8),(1,5,10)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,5,7),(1,5,8)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,5,6),(2,10,11)); lvl=1; h,r-ind=1,1
[5,3]((2,9,20),(1,4,9),(1,3,6),(1,4,6),(2,9,13)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,6),(1,4,7),(1,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,13),(1,4,7),(1,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,6),(2,8,15),(1,4,7)); lvl=2; h,r-ind=1,1
  [4,3]((4,18,33),(2,9,13),(2,8,15),(1,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((6,25,45),(11,46,82),(2,8,15),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(2,8,15),(7,29,52)); lvl=4; h,r-ind=1,1
      [3,3]((6,25,45),(2,8,15),(7,29,52)); lvl=4; h,r-ind=1,1
      [3,3]((6,25,45),(11,46,82),(7,29,52)); lvl=4; h,r-ind=1,1
      [3,3]((11,46,82),(1,4,7),(7,29,52)); lvl=4; h,r-ind=1,1
    [5,3]((2,9,13),(2,9,15),(4,17,30),(11,46,82),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,21,37),(4,17,30),(11,46,82)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(5,21,37),(11,46,82)); lvl=4; h,r-ind=1,1
      [4,3]((8,34,59),(4,17,29),(1,4,7),(5,21,37)); lvl=4; h,r-ind=1,1
        [3,3]((9,38,66),(1,4,7),(4,17,29)); lvl=5; h,r-ind=1,1
        [3,3]((8,34,59),(9,38,66),(4,17,29)); lvl=5; h,r-ind=1,1
        [3,3]((5,21,37),(8,34,59),(9,38,66)); lvl=5; h,r-ind=1,1
        [3,3]((5,21,37),(9,38,66),(1,4,7)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,14),(2,9,13),(4,17,29),(1,4,7)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,21),(1,4,7),(2,9,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,14),(3,13,21),(2,9,13)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,29),(3,13,21),(1,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,14),(4,17,29),(3,13,21)); lvl=5; h,r-ind=1,1
      [4,3]((8,34,59),(7,30,52),(5,21,37),(4,17,30)); lvl=4; h,r-ind=1,1
        [3,3]((12,51,89),(4,17,30),(7,30,52)); lvl=5; h,r-ind=1,1
        [3,3]((8,34,59),(12,51,89),(7,30,52)); lvl=5; h,r-ind=1,1
        [3,3]((5,21,37),(8,34,59),(12,51,89)); lvl=5; h,r-ind=1,1
        [3,3]((5,21,37),(12,51,89),(4,17,30)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,15),(7,30,52),(4,17,30)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,15),(8,34,59),(4,17,29),(7,30,52)); lvl=4; h,r-ind=1,1
        [4,3]((3,13,22),(4,17,29),(8,34,59),(18,77,133)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,17,29),(11,47,81),(8,34,59)); lvl=6; h,r-ind=1,1
          [3,3]((18,77,133),(11,47,81),(8,34,59)); lvl=6; h,r-ind=1,1
          [3,3]((3,13,22),(4,17,29),(11,47,81)); lvl=6; h,r-ind=1,1
          [3,3]((18,77,133),(3,13,22),(11,47,81)); lvl=6; h,r-ind=1,1
        [3,3]((7,30,52),(8,34,59),(18,77,133)); lvl=5; h,r-ind=1,1
        [4,3]((7,30,52),(2,9,15),(3,13,22),(18,77,133)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,15),(3,13,22),(10,43,74)); lvl=6; h,r-ind=1,1
          [3,3]((18,77,133),(3,13,22),(10,43,74)); lvl=6; h,r-ind=1,1
          [3,3]((7,30,52),(18,77,133),(10,43,74)); lvl=6; h,r-ind=1,1
          [3,3]((7,30,52),(2,9,15),(10,43,74)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,15),(2,9,14),(4,17,29)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,9,16),(2,9,15),(4,17,30)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((3,13,24),(6,25,45),(2,8,15)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [5,3]((3,13,24),(2,9,16),(4,17,30),(6,25,45),(11,46,82)); lvl=3; h,r-ind=1,1
        [3,3]((11,46,82),(4,17,30),(10,42,75)); lvl=4; h,r-ind=1,1
        [4,3]((8,34,61),(3,13,23),(4,17,30),(10,42,75)); lvl=4; h,r-ind=1,1
          [3,3]((3,13,23),(4,17,30),(16,68,121)); lvl=5; h,r-ind=1,1
          [4,3]((10,42,75),(9,38,68),(4,17,30),(16,68,121)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((13,55,98),(4,17,30),(16,68,121)); lvl=6; h,r-ind=1,1
            [3,3]((13,55,98),(9,38,68),(16,68,121)); lvl=6; h,r-ind=1,1
            [3,3]((10,42,75),(13,55,98),(9,38,68)); lvl=6; h,r-ind=1,1
            [3,3]((10,42,75),(13,55,98),(4,17,30)); lvl=6; h,r-ind=1,1
          [4,3]((8,34,61),(9,38,68),(3,13,23),(16,68,121)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((12,51,91),(9,38,68),(16,68,121)); lvl=6; h,r-ind=1,1
            [3,3]((3,13,23),(12,51,91),(16,68,121)); lvl=6; h,r-ind=1,1
            [3,3]((8,34,61),(12,51,91),(9,38,68)); lvl=6; h,r-ind=1,1
            [3,3]((3,13,23),(8,34,61),(12,51,91)); lvl=6; h,r-ind=1,1
        [5,3]((3,13,24),(9,38,69),(8,34,61),(2,9,16),(3,13,23)); lvl=4; h,r-ind=1,1
          [3,3]((3,13,23),(8,34,61),(15,64,115)); lvl=5; h,r-ind=1,1
          [4,3]((9,38,69),(4,17,31),(8,34,61),(15,64,115)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((4,17,31),(12,51,92),(15,64,115)); lvl=6; h,r-ind=1,1
            [3,3]((8,34,61),(12,51,92),(15,64,115)); lvl=6; h,r-ind=1,1
            [3,3]((9,38,69),(4,17,31),(12,51,92)); lvl=6; h,r-ind=1,1
            [3,3]((8,34,61),(9,38,69),(12,51,92)); lvl=6; h,r-ind=1,1
          [4,3]((4,17,31),(9,39,70),(3,13,23),(15,64,115)); lvl=5; h,r-ind=1,1
            [3,3]((7,30,54),(9,39,70),(3,13,23)); lvl=6; h,r-ind=1,1
            [3,3]((15,64,115),(7,30,54),(3,13,23)); lvl=6; h,r-ind=1,1
            [3,3]((4,17,31),(15,64,115),(7,30,54)); lvl=6; h,r-ind=1,1
            [3,3]((4,17,31),(7,30,54),(9,39,70)); lvl=6; h,r-ind=1,1
          [3,3]((9,39,70),(2,9,16),(3,13,23)); lvl=5; h,r-ind=1,1
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      [4,3]((3,13,24),(4,17,31),(9,39,70),(2,9,16)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((6,26,47),(9,39,70),(4,17,31)); lvl=6; h,r-ind=1,1
        [3,3]((3,13,24),(6,26,47),(4,17,31)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,16),(3,13,24),(6,26,47)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,16),(6,26,47),(9,39,70)); lvl=6; h,r-ind=1,1
    [3,3]((6,25,45),(11,46,82),(10,42,75)); lvl=4; h,r-ind=1,1
    [4,3]((9,38,69),(8,34,61),(6,25,45),(10,42,75)); lvl=4; h,r-ind=1,1
      [4,3]((6,25,45),(5,21,38),(10,42,75),(9,38,68)); lvl=5; h,r-ind=1,1
        [3,3]((15,63,113),(9,38,68),(5,21,38)); lvl=6; h,r-ind=1,1
        [3,3]((6,25,45),(15,63,113),(5,21,38)); lvl=6; h,r-ind=1,1
        [3,3]((10,42,75),(15,63,113),(9,38,68)); lvl=6; h,r-ind=1,1
        [3,3]((6,25,45),(10,42,75),(15,63,113)); lvl=6; h,r-ind=1,1
      [3,3]((5,21,38),(8,34,61),(9,38,68)); lvl=5; h,r-ind=1,1
      [3,3]((9,38,69),(5,21,38),(8,34,61)); lvl=5; h,r-ind=1,1
  [3,3]((3,13,24),(4,18,33),(2,9,16)); lvl=3; h,r-ind=1,1
[3,3]((1,3,6),(1,4,8),(2,8,15)); lvl=2; h,r-ind=1,1
[3,3]((1,4,9),(1,3,6),(1,4,8)); lvl=2; h,r-ind=1,1
[4,3]((2,9,20),(4,18,33),(1,4,8),(2,8,15)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,8),(2,8,15),(6,25,48),(11,46,89)); lvl=3; h,r-ind=1,1
    [3,3]((7,29,56),(6,25,48),(2,8,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(7,29,56),(2,8,15)); lvl=4; h,r-ind=1,1
    [3,3]((7,29,56),(11,46,89),(6,25,48)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(7,29,56),(11,46,89)); lvl=4; h,r-ind=1,1
  [5,3]((2,9,17),(4,17,33),(3,13,24),(6,25,48),(11,46,89)); lvl=3; h,r-ind=1,1
    [5,3]((2,9,17),(3,13,25),(8,34,65),(3,13,24),(9,38,72)); lvl=4; h,r-ind=1,1
      [4,3]((15,64,122),(4,17,32),(8,34,65),(9,38,72)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,17,32),(9,38,72),(12,51,97)); lvl=6; h,r-ind=1,1
        [3,3]((8,34,65),(9,38,72),(12,51,97)); lvl=6; h,r-ind=1,1
        [3,3]((15,64,122),(4,17,32),(12,51,97)); lvl=6; h,r-ind=1,1
        [3,3]((8,34,65),(15,64,122),(12,51,97)); lvl=6; h,r-ind=1,1
      [4,3]((9,39,74),(15,64,122),(3,13,25),(4,17,32)); lvl=5; h,r-ind=1,1
        [3,3]((7,30,57),(3,13,25),(15,64,122)); lvl=6; h,r-ind=1,1
        [3,3]((7,30,57),(4,17,32),(15,64,122)); lvl=6; h,r-ind=1,1
        [3,3]((9,39,74),(7,30,57),(4,17,32)); lvl=6; h,r-ind=1,1
        [3,3]((9,39,74),(7,30,57),(3,13,25)); lvl=6; h,r-ind=1,1
      [4,3]((2,9,17),(9,39,74),(4,17,32),(3,13,24)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((6,26,49),(4,17,32),(9,39,74)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,17),(6,26,49),(9,39,74)); lvl=6; h,r-ind=1,1
        [3,3]((3,13,24),(6,26,49),(4,17,32)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,17),(3,13,24),(6,26,49)); lvl=6; h,r-ind=1,1
      [3,3]((2,9,17),(9,39,74),(3,13,25)); lvl=5; h,r-ind=1,1
      [3,3]((15,64,122),(3,13,25),(8,34,65)); lvl=5; h,r-ind=1,1
    [4,3]((8,34,65),(10,42,81),(6,25,48),(9,38,72)); lvl=4; h,r-ind=1,1
      [4,3]((9,38,73),(10,42,81),(5,21,40),(6,25,48)); lvl=5; h,r-ind=1,1
        [3,3]((15,63,121),(6,25,48),(10,42,81)); lvl=6; h,r-ind=1,1
        [3,3]((9,38,73),(15,63,121),(10,42,81)); lvl=6; h,r-ind=1,1
        [3,3]((5,21,40),(15,63,121),(6,25,48)); lvl=6; h,r-ind=1,1
        [3,3]((9,38,73),(5,21,40),(15,63,121)); lvl=6; h,r-ind=1,1
      [3,3]((8,34,65),(9,38,73),(5,21,40)); lvl=5; h,r-ind=1,1
      [3,3]((9,38,72),(8,34,65),(5,21,40)); lvl=5; h,r-ind=1,1
    [3,3]((10,42,81),(11,46,89),(6,25,48)); lvl=4; h,r-ind=1,1
    [3,3]((10,42,81),(4,17,33),(11,46,89)); lvl=4; h,r-ind=1,1
    [4,3]((3,13,25),(8,34,65),(10,42,81),(4,17,33)); lvl=4; h,r-ind=1,1
      [4,3]((3,13,25),(16,68,131),(8,34,65),(9,38,73)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((12,51,98),(9,38,73),(16,68,131)); lvl=6; h,r-ind=1,1
        [3,3]((3,13,25),(12,51,98),(16,68,131)); lvl=6; h,r-ind=1,1
        [3,3]((8,34,65),(12,51,98),(9,38,73)); lvl=6; h,r-ind=1,1
        [3,3]((3,13,25),(8,34,65),(12,51,98)); lvl=6; h,r-ind=1,1
      [4,3]((4,17,33),(16,68,131),(10,42,81),(9,38,73)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((9,38,73),(16,68,131),(13,55,106)); lvl=6; h,r-ind=1,1
        [3,3]((4,17,33),(16,68,131),(13,55,106)); lvl=6; h,r-ind=1,1
        [3,3]((10,42,81),(9,38,73),(13,55,106)); lvl=6; h,r-ind=1,1
        [3,3]((4,17,33),(10,42,81),(13,55,106)); lvl=6; h,r-ind=1,1
      [3,3]((4,17,33),(3,13,25),(16,68,131)); lvl=5; h,r-ind=1,1
  [3,3]((2,9,17),(4,18,33),(3,13,24)); lvl=3; h,r-ind=1,1
  [5,3]((2,9,20),(2,9,18),(4,17,33),(1,4,8),(11,46,89)); lvl=3; h,r-ind=1,1
    [3,3]((4,17,33),(5,21,41),(11,46,89)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(5,21,41),(11,46,89)); lvl=4; h,r-ind=1,1
    [4,3]((4,17,33),(5,21,41),(7,30,59),(8,34,67)); lvl=4; h,r-ind=1,1
      [3,3]((12,51,100),(8,34,67),(5,21,41)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,33),(12,51,100),(5,21,41)); lvl=5; h,r-ind=1,1
      [3,3]((7,30,59),(12,51,100),(8,34,67)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,33),(7,30,59),(12,51,100)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,18),(4,17,33),(7,30,59)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,8),(5,21,41),(8,34,67),(4,17,34)); lvl=4; h,r-ind=1,1
      [3,3]((5,21,41),(8,34,67),(9,38,75)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,34),(8,34,67),(9,38,75)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,8),(5,21,41),(9,38,75)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,34),(1,4,8),(9,38,75)); lvl=5; h,r-ind=1,1
    [4,3]((2,9,19),(2,9,20),(1,4,8),(4,17,34)); lvl=4; h,r-ind=1,2; alert-r-inc
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          [3,3]((1,4,8),(2,9,20),(3,13,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,19),(2,9,20),(3,13,27)); lvl=5; h,r-ind=1,1
          [3,3]((4,17,34),(1,4,8),(3,13,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,19),(4,17,34),(3,13,27)); lvl=5; h,r-ind=1,1
        [4,3]((2,9,18),(7,30,59),(8,34,67),(4,17,34)); lvl=4; h,r-ind=1,1
          [3,3]((8,34,67),(7,30,59),(18,77,152)); lvl=5; h,r-ind=1,1
          [4,3]((3,13,26),(2,9,18),(7,30,59),(18,77,152)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((10,43,85),(2,9,18),(7,30,59)); lvl=6; h,r-ind=1,1
            [3,3]((18,77,152),(10,43,85),(7,30,59)); lvl=6; h,r-ind=1,1
            [3,3]((3,13,26),(18,77,152),(10,43,85)); lvl=6; h,r-ind=1,1
            [3,3]((3,13,26),(10,43,85),(2,9,18)); lvl=6; h,r-ind=1,1
          [4,3]((4,17,34),(3,13,26),(8,34,67),(18,77,152)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((11,47,93),(3,13,26),(18,77,152)); lvl=6; h,r-ind=1,1
            [3,3]((11,47,93),(8,34,67),(18,77,152)); lvl=6; h,r-ind=1,1
            [3,3]((4,17,34),(11,47,93),(8,34,67)); lvl=6; h,r-ind=1,1
            [3,3]((4,17,34),(11,47,93),(3,13,26)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,19),(2,9,18),(4,17,34)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,9,17),(2,9,18),(4,17,33)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((3,13,24),(2,8,15),(6,25,48)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,4,9),(2,9,20),(1,4,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,21),(2,9,20),(1,4,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,9,21),(2,9,20)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,3,7),(1,4,9),(1,3,6),(1,2,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,9),(1,3,6),(2,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,6),(2,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(1,4,9),(2,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,7),(2,6,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,7),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,9,21),(1,3,7),(1,4,9)); lvl=1; h,r-ind=1,1
```

21.27 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,10,21)); lvl=0; h,r-ind=21,441
  [5,3]((1,3,6),(1,1,2),(2,2,3),(1,5,6),(2,10,11)); lvl=1; h,r-ind=2,1
    [4,3]((1,2,3),(1,3,4),(2,6,7),(2,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,4),(6,14,19),(2,6,7),(2,4,5)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,3,4),(4,10,13),(4,9,12),(6,14,19)); lvl=4; h,r-ind=1,2
          [3,3]((4,9,12),(5,12,16),(4,10,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(5,12,16),(4,10,13)); lvl=5; h,r-ind=1,1
          [3,3]((6,14,19),(4,9,12),(5,12,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(6,14,19),(5,12,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(4,10,13),(4,9,12)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((2,5,6),(2,4,5),(4,10,13)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,3,4),(2,6,7),(2,5,6),(4,10,13)); lvl=4; h,r-ind=1,2
          [3,3]((3,8,10),(2,6,7),(2,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((4,10,13),(3,8,10),(2,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(4,10,13),(3,8,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=5; h,r-ind=1,1
      [4,3]((2,2,3),(1,2,3),(6,14,19),(2,4,5)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((4,8,11),(1,2,3),(4,9,12),(6,14,19)); lvl=4; h,r-ind=1,2
          [3,3]((1,2,3),(6,14,19),(5,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,12),(6,14,19),(5,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,8,11),(4,9,12),(5,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,8,11),(1,2,3),(5,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(4,8,11),(4,9,12)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((2,4,5),(2,3,4),(4,8,11)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((2,2,3),(2,3,4),(4,8,11),(1,2,3)); lvl=4; h,r-ind=1,2
          [3,3]((2,3,4),(3,5,7),(4,8,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(3,5,7),(4,8,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(1,2,3),(3,5,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(2,3,4),(3,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(6,14,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(1,2,3),(2,5,8),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,7),(2,5,8),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,4,7),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,1,2),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,7),(2,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(1,4,5),(2,10,11),(2,6,7)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,5),(6,22,27),(2,10,11),(2,8,9)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [3,3]((4,16,19),(4,15,18),(2,8,9)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((2,9,10),(4,16,19),(2,8,9)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,4,5),(2,10,11),(2,9,10),(4,16,19)); lvl=4; h,r-ind=1,2
          [3,3]((3,13,15),(2,9,10),(2,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(3,13,15),(2,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((4,16,19),(1,4,5),(3,13,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,16,19),(3,13,15),(2,9,10)); lvl=5; h,r-ind=1,1
```

```
        [4,3]((1,4,5),(4,16,19),(6,22,27),(4,15,18)); lvl=4; h,r-ind=1,2
          [3,3]((5,19,23),(4,16,19),(4,15,18)); lvl=5; h,r-ind=1,1
          [3,3]((6,22,27),(5,19,23),(4,15,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(6,22,27),(5,19,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(5,19,23),(4,16,19)); lvl=5; h,r-ind=1,1
      [4,3]((2,6,7),(1,3,4),(6,22,27),(2,8,9)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,3,4),(4,15,18),(6,22,27),(4,14,17)); lvl=4; h,r-ind=1,2
          [3,3]((4,15,18),(6,22,27),(5,18,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(6,22,27),(5,18,22)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,17),(4,15,18),(5,18,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(4,14,17),(5,18,22)); lvl=5; h,r-ind=1,1
        [4,3]((2,7,8),(2,6,7),(1,3,4),(4,14,17)); lvl=4; h,r-ind=1,2
          [3,3]((1,3,4),(3,10,12),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(3,10,12),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,17),(1,3,4),(3,10,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(4,14,17),(3,10,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,9),(4,15,18),(4,14,17)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((2,8,9),(2,7,8),(4,14,17)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((1,3,4),(1,4,5),(6,22,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(1,5,6),(2,10,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(1,4,6),(2,7,10),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,10),(2,8,11),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,8,11),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,10),(2,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,5),(2,8,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(2,6,9),(1,4,5),(2,7,10)); lvl=2; h,r-ind=1,1
      [3,3]((2,6,9),(2,7,10),(3,10,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,10),(3,10,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,5),(3,10,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(3,10,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,6),(2,6,9),(1,4,6),(2,7,10)); lvl=2; h,r-ind=1,1
      [4,3]((2,6,9),(1,3,5),(2,7,10),(4,14,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,10),(4,14,21),(3,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,14,21),(3,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,9),(1,3,5),(3,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,9),(2,7,10),(3,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,10),(4,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,3,5),(4,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,6),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(1,3,4),(2,5,8),(2,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(3,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(2,6,9),(3,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(3,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(1,2,3),(3,8,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(1,3,6),(2,5,8),(2,6,9)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,8),(1,3,5),(2,6,9),(4,10,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,9),(3,8,13),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,17),(3,8,13),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(4,10,17),(3,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(2,6,9),(3,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,8),(4,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(4,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(1,3,6)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,5,6),(2,10,11)); lvl=1; h,r-ind=1,1
[3,3]((1,5,10),(0,1,0),(1,5,6)); lvl=1; h,r-ind=4,4; optimized-h
[3,3]((2,10,21),(1,5,10),(0,1,0)); lvl=1; h,r-ind=1,1
[4,3]((1,0,0),(0,1,0),(2,2,3),(2,10,11)); lvl=1; h,r-ind=1,1
  [4,3]((2,2,3),(2,6,7),(1,3,3),(1,1,1)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((2,6,7),(2,4,5),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [4,3]((2,4,5),(2,5,6),(1,2,2),(4,10,11)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,8),(2,5,6),(4,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,8),(1,2,2),(4,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,8),(1,2,2)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,8),(2,5,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(4,10,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,3),(2,6,7),(2,5,6),(4,10,11)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,7),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,11),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(4,10,11),(3,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=5; h,r-ind=1,1
    [4,3]((1,1,1),(2,2,3),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(4,6,7),(2,4,5),(2,3,4)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,6),(4,6,7),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(3,5,6),(4,6,7)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,1),(4,6,7),(2,2,3),(2,3,4)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(2,3,4),(4,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(4,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(4,6,7)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,1,1)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,5),(2,10,11),(2,6,7),(1,3,3)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((1,4,4),(1,3,3),(2,8,9),(2,6,7)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,3),(4,14,15),(2,6,7),(2,7,8)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,14,15),(3,10,11),(2,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,7),(3,10,11),(2,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(4,14,15),(3,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,7),(1,3,3),(3,10,11)); lvl=5; h,r-ind=1,1
        [4,3]((2,8,9),(1,4,4),(4,14,15),(2,7,8)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,11,12),(1,4,4),(4,14,15)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,12),(2,7,8),(4,14,15)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,9),(3,11,12),(2,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,9),(3,11,12),(1,4,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(1,3,3),(4,14,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,5),(1,4,4),(2,10,11),(2,8,9)); lvl=3; h,r-ind=1,1
        [4,3]((1,4,4),(4,18,19),(2,8,9),(2,9,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,18,19),(2,9,10),(3,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,9),(2,9,10),(3,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(2,8,9),(3,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(4,18,19),(3,13,14)); lvl=5; h,r-ind=1,1
        [4,3]((2,10,11),(1,5,5),(4,18,19),(2,9,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,15),(1,5,5),(4,18,19)); lvl=5; h,r-ind=1,1
          [3,3]((3,14,15),(2,9,10),(4,18,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,11),(3,14,15),(2,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,11),(3,14,15),(1,5,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,5),(1,4,4),(4,18,19)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,3,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,5,5),(2,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,6),(1,5,10),(1,5,6)); lvl=1; h,r-ind=8,4; optimized-h
  [3,3]((2,10,21),(1,3,6),(1,5,10)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,10,21),(1,3,6),(1,1,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(2,10,21),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
```

21.28 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,11,21)); lvl=0; h,r-ind=21,441
  [3,3]((4,11,20),(2,9,17),(1,0,0)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((2,11,21),(2,9,17),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,5,5),(4,11,20),(1,0,0)); lvl=1; h,r-ind=45,45; alert-h-inc
    [4,3]((7,16,28),(3,7,12),(2,5,9),(1,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,21),(3,7,12),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(5,12,21),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((7,16,28),(5,12,21),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(7,16,28),(5,12,21)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,20),(2,5,9),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(4,11,20),(2,5,9)); lvl=2; h,r-ind=1,1
    [5,3]((2,6,9),(4,10,15),(5,11,18),(3,7,12),(1,3,5)); lvl=2; h,r-ind=2,1
      [4,3]((2,5,8),(3,7,11),(4,10,15),(3,8,12)); lvl=3; h,r-ind=1,1
        [3,3]((6,15,23),(4,10,15),(3,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(6,15,23),(3,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((6,15,23),(3,8,12),(4,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(6,15,23),(3,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(2,5,8),(3,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,9),(1,3,5),(2,5,8)); lvl=3; h,r-ind=1,1
      [4,3]((5,11,18),(4,9,15),(2,5,8),(3,7,11)); lvl=3; h,r-ind=1,1
        [3,3]((7,16,26),(2,5,8),(4,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,18),(7,16,26),(4,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,11),(7,16,26),(2,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,18),(3,7,11),(7,16,26)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,15),(2,5,8),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,8),(3,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,10),(2,6,9),(1,3,5)); lvl=2; h,r-ind=1,1
    [5,3]((1,5,5),(2,5,5),(2,7,10),(2,6,9),(4,10,15)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,4),(2,5,7),(4,10,15),(3,8,12)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,7),(4,10,15),(5,13,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,12),(4,10,15),(5,13,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,12),(5,13,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,7),(5,13,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(3,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(2,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,4),(2,7,10)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,7),(1,5,5),(1,4,5),(1,3,4)); lvl=3; h,r-ind=1,1
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      [4,3]((1,4,4),(3,11,13),(1,4,5),(1,5,5)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,8,9),(3,11,13),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,5),(2,8,9),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(1,5,5),(2,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(2,8,9),(3,11,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,4),(3,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,7),(1,4,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(3,11,13),(1,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,7),(4,10,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(1,3,4),(2,5,5),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,6),(4,11,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,3),(2,5,5),(2,5,6),(4,11,13)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,5),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,13),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(4,11,13),(3,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,5,5),(3,8,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(4,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(4,10,13),(2,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,7),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
  [5,3]((1,0,0),(2,5,5),(4,7,12),(4,10,15),(5,11,18)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,7),(1,2,3),(4,10,15),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,18),(3,7,11),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,7),(5,12,18),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,15),(5,12,18),(3,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,7),(4,10,15),(5,12,18)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(5,11,18),(3,6,10),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,10),(5,11,18),(6,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,11),(5,11,18),(6,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(3,6,10),(6,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,11),(1,2,3),(6,13,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,8),(3,6,10)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,12),(3,5,8),(3,6,10),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,15),(3,5,8),(3,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,12),(5,9,15),(3,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,15),(2,3,5),(3,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,12),(5,9,15),(2,3,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(4,7,12),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(3,5,8),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(3,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,7),(4,10,13),(1,2,3)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,5),(1,2,2),(4,10,13),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,11),(1,2,3),(1,2,2)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,5),(2,5,6),(4,9,11),(1,2,2)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,8),(4,9,11),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,5),(3,7,8),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(2,5,5),(3,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(3,7,8),(4,9,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,6),(4,9,11),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,13),(2,5,6),(1,2,3)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,3),(1,2,3)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((2,4,7),(4,7,12),(7,16,28),(5,11,18),(3,7,12)); lvl=2; h,r-ind=1,1
    [4,3]((5,11,18),(3,6,10),(6,13,22),(4,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,10),(7,15,25),(6,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,15),(7,15,25),(6,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,18),(4,9,15),(7,15,25)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,18),(3,6,10),(7,15,25)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,12),(6,13,22),(4,9,15)); lvl=3; h,r-ind=1,1
    [5,3]((5,10,17),(15,31,53),(3,6,10),(8,17,29),(6,13,22)); lvl=3; h,r-ind=1,1
      [5,3]((16,33,56),(19,40,68),(24,50,85),(6,13,22),(3,6,10)); lvl=4; h,r-ind=1,1
        [3,3]((24,50,85),(11,23,39),(16,33,56)); lvl=5; h,r-ind=1,1
        [3,3]((3,6,10),(11,23,39),(16,33,56)); lvl=5; h,r-ind=1,1
        [3,3]((6,13,22),(3,6,10),(11,23,39)); lvl=5; h,r-ind=1,1
        [3,3]((19,40,68),(24,50,85),(11,23,39)); lvl=5; h,r-ind=1,1
        [3,3]((19,40,68),(6,13,22),(11,23,39)); lvl=5; h,r-ind=1,1
      [3,3]((5,10,17),(16,33,56),(3,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((19,40,68),(8,17,29),(6,13,22)); lvl=4; h,r-ind=1,1
      [4,3]((19,40,68),(13,27,46),(24,50,85),(8,17,29)); lvl=4; h,r-ind=1,1
        [3,3]((24,50,85),(13,27,46),(32,67,114)); lvl=5; h,r-ind=1,1
        [3,3]((8,17,29),(13,27,46),(32,67,114)); lvl=5; h,r-ind=1,1
        [3,3]((19,40,68),(24,50,85),(32,67,114)); lvl=5; h,r-ind=1,1
        [3,3]((8,17,29),(19,40,68),(32,67,114)); lvl=5; h,r-ind=1,1
      [3,3]((15,31,53),(13,27,46),(8,17,29)); lvl=4; h,r-ind=1,1
      [4,3]((5,10,17),(16,33,56),(13,27,46),(24,50,85)); lvl=4; h,r-ind=1,1
        [3,3]((16,33,56),(24,50,85),(29,60,102)); lvl=5; h,r-ind=1,1
        [3,3]((13,27,46),(24,50,85),(29,60,102)); lvl=5; h,r-ind=1,1
        [3,3]((5,10,17),(16,33,56),(29,60,102)); lvl=5; h,r-ind=1,1
        [3,3]((13,27,46),(5,10,17),(29,60,102)); lvl=5; h,r-ind=1,1
      [3,3]((5,10,17),(15,31,53),(13,27,46)); lvl=4; h,r-ind=1,1
    [4,3]((5,11,19),(3,7,12),(8,17,29),(6,13,22)); lvl=3; h,r-ind=1,1
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      [3,3]((11,24,41),(6,13,22),(3,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,19),(11,24,41),(3,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((8,17,29),(5,11,19),(11,24,41)); lvl=4; h,r-ind=1,1
      [3,3]((8,17,29),(11,24,41),(6,13,22)); lvl=4; h,r-ind=1,1
    [3,3]((7,16,28),(5,11,19),(3,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(7,16,28),(5,11,19)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,12),(5,10,17),(3,6,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,7),(4,7,12),(5,10,17),(15,31,53)); lvl=3; h,r-ind=1,1
      [3,3]((5,10,17),(7,14,24),(4,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(7,14,24),(4,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((15,31,53),(2,4,7),(7,14,24)); lvl=4; h,r-ind=1,1
      [3,3]((15,31,53),(5,10,17),(7,14,24)); lvl=4; h,r-ind=1,1
    [4,3]((2,4,7),(5,11,19),(15,31,53),(8,17,29)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((10,21,36),(8,17,29),(5,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(10,21,36),(5,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((15,31,53),(10,21,36),(8,17,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(15,31,53),(10,21,36)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,7),(4,7,12)); lvl=2; h,r-ind=1,1
  [3,3]((2,4,7),(7,16,28),(2,5,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,7),(2,5,9)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,5,5),(1,0,0)); lvl=1; h,r-ind=5,5; optimized-h
[6,3]((2,11,20),(5,27,50),(1,5,5),(2,11,11),(4,11,20),(2,9,17)); lvl=1; h,r-ind=1,1
  [4,3]((2,10,15),(4,22,31),(2,11,20),(1,5,9)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((1,5,8),(1,5,9),(2,11,20),(4,22,35)); lvl=3; h,r-ind=1,1
      [4,3]((5,26,44),(1,5,9),(4,22,37),(2,11,20)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,5,9),(7,37,64),(2,11,19),(2,11,20)); lvl=5; h,r-ind=1,3
          [3,3]((7,37,64),(3,16,28),(2,11,19)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,20),(3,16,28),(2,11,19)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,9),(2,11,20),(3,16,28)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,9),(7,37,64),(3,16,28)); lvl=6; h,r-ind=1,1
        [3,3]((3,16,27),(7,37,64),(2,11,19)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,5,9),(5,26,44),(3,16,27),(7,37,64)); lvl=5; h,r-ind=1,3
          [3,3]((4,21,36),(5,26,44),(3,16,27)); lvl=6; h,r-ind=1,1
          [3,3]((7,37,64),(4,21,36),(3,16,27)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,9),(7,37,64),(4,21,36)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,9),(4,21,36),(5,26,44)); lvl=6; h,r-ind=1,1
        [3,3]((3,16,27),(2,11,19),(4,22,37)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,8),(5,26,44),(2,11,18),(4,22,37)); lvl=4; h,r-ind=1,1
        [4,3]((6,32,53),(3,16,27),(2,11,18),(4,22,37)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,18),(5,27,45),(4,22,37)); lvl=6; h,r-ind=1,1
          [3,3]((3,16,27),(5,27,45),(4,22,37)); lvl=6; h,r-ind=1,1
          [3,3]((6,32,53),(2,11,18),(5,27,45)); lvl=6; h,r-ind=1,1
          [3,3]((3,16,27),(6,32,53),(5,27,45)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,8),(6,32,53),(2,11,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(6,32,53),(3,16,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(5,26,44),(3,16,27)); lvl=5; h,r-ind=1,1
      [3,3]((4,22,35),(1,5,8),(2,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(5,26,44),(1,5,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(2,11,16),(4,22,35)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((3,16,23),(1,5,8),(2,11,16)); lvl=3; h,r-ind=1,1
    [3,3]((3,16,23),(4,22,31),(2,11,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,15),(3,16,23),(1,5,8)); lvl=3; h,r-ind=1,1
  [3,3]((5,27,50),(2,11,20),(1,5,9)); lvl=2; h,r-ind=1,1
  [3,3]((5,27,50),(7,36,67),(1,5,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,9,17),(7,36,67),(1,5,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,10,15),(4,17,27),(1,4,7),(1,5,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((5,22,36),(2,9,14),(1,4,7),(4,17,27)); lvl=3; h,r-ind=1,3
      [3,3]((3,13,21),(2,9,14),(4,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,13,21),(4,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((5,22,36),(1,4,7),(3,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((5,22,36),(3,13,21),(2,9,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(5,22,36),(2,9,14)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,5,8),(2,10,15),(2,9,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,8),(5,22,36),(1,5,9),(1,4,7)); lvl=3; h,r-ind=1,3
      [3,3]((2,9,15),(5,22,36),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,9,15),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(1,5,9),(2,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,9,15),(5,22,36)); lvl=4; h,r-ind=1,1
  [4,3]((2,9,17),(1,4,7),(2,7,13),(1,5,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,15),(2,7,13),(1,4,7),(4,17,31)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,12,22),(1,4,7),(2,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,15),(3,12,22),(2,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,22),(4,17,31),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,15),(3,12,22),(4,17,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,9),(1,4,7),(4,17,31)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,9),(2,9,17),(2,8,15),(4,17,31)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,17),(3,13,24),(2,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,31),(3,13,24),(2,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,9,17),(3,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,31),(1,5,9),(3,13,24)); lvl=4; h,r-ind=1,1
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    [3,3]((2,6,11),(1,4,7),(2,7,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,6),(4,17,27),(1,3,5),(1,4,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,7),(2,8,13),(4,17,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,8,13),(4,17,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,3,5),(2,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,4,7),(2,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,11),(1,3,5),(1,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,11),(4,11,20),(1,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,10,15),(2,11,11),(1,5,6),(4,22,31)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((1,5,7),(1,5,6),(4,22,27),(2,11,11)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,7),(5,26,32),(2,11,13),(4,22,25)); lvl=4; h,r-ind=1,1
          [4,3]((3,16,19),(6,32,39),(2,11,13),(4,22,25)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((6,32,39),(2,11,13),(5,27,32)); lvl=6; h,r-ind=1,1
            [3,3]((4,22,25),(2,11,13),(5,27,32)); lvl=6; h,r-ind=1,1
            [3,3]((3,16,19),(4,22,25),(5,27,32)); lvl=6; h,r-ind=1,1
            [3,3]((3,16,19),(6,32,39),(5,27,32)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,7),(3,16,19),(6,32,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(5,26,32),(3,16,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(6,32,39),(2,11,13)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,6),(5,26,32),(2,11,11),(4,22,25)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [3,3]((3,16,19),(2,11,12),(4,22,25)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,19),(7,37,43),(2,11,12)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,5,6),(2,11,11),(7,37,43),(2,11,12)); lvl=5; h,r-ind=1,3
            [3,3]((3,16,18),(2,11,12),(2,11,11)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,6),(3,16,18),(2,11,11)); lvl=6; h,r-ind=1,1
            [3,3]((7,37,43),(3,16,18),(2,11,12)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,6),(7,37,43),(3,16,18)); lvl=6; h,r-ind=1,1
          [4,3]((1,5,6),(5,26,32),(3,16,19),(7,37,43)); lvl=5; h,r-ind=1,3
            [3,3]((4,21,25),(3,16,19),(5,26,32)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,6),(4,21,25),(5,26,32)); lvl=6; h,r-ind=1,1
            [3,3]((7,37,43),(4,21,25),(3,16,19)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,6),(7,37,43),(4,21,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,7),(1,5,6),(5,26,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(4,22,27),(2,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,15),(4,22,27)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((3,16,23),(1,5,7),(2,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,22,31),(3,16,23),(2,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,23),(2,10,15),(1,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,5),(2,11,11),(1,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,6),(2,10,15),(4,17,27),(1,5,6)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((1,5,7),(2,9,14),(2,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(5,22,33),(2,9,14)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,4,6),(5,22,33),(4,17,27),(2,9,14)); lvl=3; h,r-ind=1,3
        [3,3]((3,13,20),(5,22,33),(2,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,17,27),(3,13,20),(2,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(4,17,27),(3,13,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(3,13,20),(5,22,33)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,6),(1,5,7),(1,5,6),(5,22,33)); lvl=3; h,r-ind=1,3
        [3,3]((1,5,7),(1,5,6),(2,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(1,5,6),(2,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,22,33),(1,4,6),(2,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,22,33),(1,5,7),(2,9,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,5),(1,4,6),(2,7,10),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,6),(3,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,6),(3,13,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,6),(1,5,5),(1,4,5),(3,13,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,11),(1,4,5),(1,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,9,11),(1,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,17),(2,9,11),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(3,13,17),(2,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,10),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,3,5),(2,7,10)); lvl=2; h,r-ind=1,1
  [3,3]((2,11,21),(5,27,50),(2,9,17)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((0,1,0),(2,11,20),(2,11,11)); lvl=1; h,r-ind=18,18; optimized-h
  [3,3]((2,11,21),(0,1,0),(2,11,20)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,11,21),(2,11,20),(5,27,50)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,5),(2,11,11)); lvl=1; h,r-ind=1,1
```

21.29 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,12,21)); lvl=0; h,r-ind=21,147
  [5,3]((3,15,25),(3,17,29),(2,9,15),(1,4,7),(2,11,19)); lvl=1; h,r-ind=1,1
    [3,3]((2,10,17),(1,4,7),(2,11,19)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,17),(3,17,29),(2,11,19)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,17),(3,16,27),(3,17,29)); lvl=2; h,r-ind=1,1
    [3,3]((3,15,25),(2,10,17),(3,16,27)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,17),(1,4,7),(2,9,15)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((3,15,25),(2,10,17),(2,9,15)); lvl=2; h,r-ind=1,1
  [3,3]((2,12,21),(1,4,7),(2,11,19)); lvl=1; h,r-ind=1,1
  [3,3]((2,12,21),(3,17,29),(2,11,19)); lvl=1; h,r-ind=1,1
  [5,3]((1,6,10),(2,11,17),(1,5,8),(3,15,25),(3,17,29)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,8),(2,11,18),(2,11,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,10),(2,11,18),(2,11,17)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,8),(2,11,18),(7,38,63),(6,32,53)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,18),(7,38,63),(8,43,71)); lvl=3; h,r-ind=1,1
      [3,3]((6,32,53),(7,38,63),(8,43,71)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(2,11,18),(8,43,71)); lvl=3; h,r-ind=1,1
      [3,3]((6,32,53),(1,5,8),(8,43,71)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,10),(2,11,18),(6,33,55),(7,38,63)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,18),(7,38,63),(8,44,73)); lvl=3; h,r-ind=1,1
      [3,3]((6,33,55),(7,38,63),(8,44,73)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,10),(2,11,18),(8,44,73)); lvl=3; h,r-ind=1,1
      [3,3]((6,33,55),(1,6,10),(8,44,73)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,8),(3,15,25),(6,32,53),(4,21,35)); lvl=2; h,r-ind=1,1
      [3,3]((3,15,25),(5,26,43),(4,21,35)); lvl=3; h,r-ind=1,1
      [3,3]((6,32,53),(5,26,43),(4,21,35)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(6,32,53),(5,26,43)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(3,15,25),(5,26,43)); lvl=3; h,r-ind=1,1
    [6,3]((3,16,27),(4,22,37),(6,33,55),(7,38,63),(6,32,53),(4,21,35)); lvl=2; h,r-ind=1,1
      [3,3]((6,33,55),(5,27,45),(4,22,37)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,27),(5,27,45),(4,22,37)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,27),(4,21,35),(5,27,45)); lvl=3; h,r-ind=1,1
      [3,3]((7,38,63),(6,33,55),(5,27,45)); lvl=3; h,r-ind=1,1
      [3,3]((7,38,63),(6,32,53),(5,27,45)); lvl=3; h,r-ind=1,1
      [3,3]((4,21,35),(6,32,53),(5,27,45)); lvl=3; h,r-ind=1,1
    [3,3]((3,15,25),(3,16,27),(4,21,35)); lvl=2; h,r-ind=1,1
    [3,3]((3,17,29),(3,16,27),(4,22,37)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,10),(3,17,29),(4,22,37),(6,33,55)); lvl=2; h,r-ind=1,1
      [3,3]((5,28,47),(3,17,29),(4,22,37)); lvl=3; h,r-ind=1,1
      [3,3]((6,33,55),(5,28,47),(4,22,37)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,10),(6,33,55),(5,28,47)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,10),(5,28,47),(3,17,29)); lvl=3; h,r-ind=1,1
  [3,3]((2,12,21),(1,6,10),(3,17,29)); lvl=1; h,r-ind=1,1
  [5,3]((2,7,10),(1,5,5),(2,11,11),(2,11,17),(1,5,8)); lvl=1; h,r-ind=3,1
    [3,3]((2,11,11),(1,5,6),(1,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(3,14,18),(1,5,6),(1,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,11),(3,14,18),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(2,9,11),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,5),(2,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,11),(3,14,18)); lvl=3; h,r-ind=1,1
    [4,3]((2,10,13),(3,14,18),(4,19,25),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,19,25),(5,24,31),(3,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(5,24,31),(3,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,13),(4,19,25),(5,24,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,10,13),(5,24,31)); lvl=3; h,r-ind=1,1
    [5,3]((1,4,6),(1,4,5),(3,14,18),(4,19,25),(3,14,19)); lvl=2; h,r-ind=1,1
      [3,3]((3,14,18),(1,4,5),(2,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,4,5),(2,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,18),(4,19,25),(2,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,19),(4,19,25),(2,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(3,14,19),(2,9,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,7),(2,10,13),(4,19,25),(3,14,19)); lvl=2; h,r-ind=1,1
      [3,3]((2,10,13),(4,19,25),(5,24,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,19),(4,19,25),(5,24,32)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,10,13),(5,24,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,19),(1,5,7),(5,24,32)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,10),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,10,13),(2,11,11),(1,5,6),(2,11,14)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,6),(4,22,25),(2,11,11),(5,26,32)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,11,12),(3,16,19),(7,37,43)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,5,6),(5,26,32),(3,16,19),(7,37,43)); lvl=4; h,r-ind=1,3
          [3,3]((4,21,25),(3,16,19),(5,26,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(4,21,25),(5,26,32)); lvl=5; h,r-ind=1,1
          [3,3]((7,37,43),(4,21,25),(3,16,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(7,37,43),(4,21,25)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,6),(2,11,11),(2,11,12),(7,37,43)); lvl=4; h,r-ind=1,3
          [3,3]((3,16,18),(2,11,12),(2,11,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(3,16,18),(2,11,11)); lvl=5; h,r-ind=1,1
          [3,3]((7,37,43),(3,16,18),(2,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(7,37,43),(3,16,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,12),(4,22,25),(3,16,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,13),(1,5,6),(5,26,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(2,10,13),(5,26,32)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,11,14),(4,22,25),(5,26,32)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,5,7),(2,10,13),(2,11,14),(2,11,17)); lvl=2; h,r-ind=1,1
      [3,3]((5,26,35),(2,10,13),(2,11,14)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((4,22,31),(5,26,35),(2,11,14)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
```

```
    [4,3]((1,5,7),(2,11,17),(4,22,31),(5,26,35)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,5,7),(7,37,52),(2,11,16),(2,11,17)); lvl=4; h,r-ind=1,3
        [3,3]((3,16,23),(7,37,52),(2,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,17),(3,16,23),(2,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(2,11,17),(3,16,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(3,16,23),(7,37,52)); lvl=5; h,r-ind=1,1
      [3,3]((7,37,52),(3,16,22),(2,11,16)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((3,16,22),(4,22,31),(2,11,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,7),(7,37,52),(3,16,22),(5,26,35)); lvl=4; h,r-ind=1,3
        [3,3]((4,21,29),(3,16,22),(7,37,52)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(4,21,29),(7,37,52)); lvl=5; h,r-ind=1,1
        [3,3]((5,26,35),(4,21,29),(3,16,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(5,26,35),(4,21,29)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,7),(5,26,35),(2,10,13)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,7),(1,5,8),(2,11,17)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,6),(1,5,7),(3,14,19),(1,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,13),(3,14,19),(1,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(2,9,13),(1,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,5,8),(2,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,9,13),(3,14,19)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,5,5),(2,11,11)); lvl=1; h,r-ind=1,1
[4,3]((0,1,0),(1,6,10),(2,11,11),(2,11,17)); lvl=1; h,r-ind=3,3
  [4,3]((1,6,9),(2,12,15),(2,11,14),(2,11,17)); lvl=2; h,r-ind=3,1
    [3,3]((1,6,8),(2,11,14),(2,12,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(4,22,31),(2,11,14)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((1,6,8),(1,6,9),(2,11,17),(4,22,31)); lvl=3; h,r-ind=1,1
      [4,3]((4,23,33),(1,6,9),(2,11,16),(2,11,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,25),(2,11,16),(2,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,9),(3,17,25),(2,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((4,23,33),(3,17,25),(2,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,9),(4,23,33),(3,17,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(4,23,33),(2,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((4,22,31),(1,6,8),(2,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(4,23,33),(1,6,9)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,10),(1,6,9),(2,11,17)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,9),(2,12,15)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,6,10),(0,1,0),(1,6,9)); lvl=2; h,r-ind=1,1
  [4,3]((2,12,15),(2,11,11),(2,11,14),(1,6,6)); lvl=2; h,r-ind=3,1
    [4,3]((1,6,7),(1,6,6),(2,11,11),(4,22,25)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,12),(1,6,6),(2,11,11),(4,23,25)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,6,6),(2,11,11),(3,17,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,12),(2,11,11),(3,17,18)); lvl=5; h,r-ind=1,1
        [3,3]((4,23,25),(1,6,6),(3,17,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,12),(4,23,25),(3,17,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,12),(4,23,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,12),(4,22,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,6),(4,23,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(2,11,14),(4,22,25)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((2,12,15),(1,6,7),(2,11,14)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,11,11),(1,6,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,12,15),(1,6,6)); lvl=2; h,r-ind=3,3; optimized-h
[3,3]((2,12,21),(0,1,0),(1,6,10)); lvl=1; h,r-ind=1,1
[4,3]((2,6,9),(2,9,15),(1,0,0),(1,4,7)); lvl=1; h,r-ind=3,3
  [3,3]((1,3,5),(1,4,7),(2,9,15)); lvl=2; h,r-ind=1,1
  [3,3]((4,15,24),(1,3,5),(2,9,15)); lvl=2; h,r-ind=3,3; optimized-h
  [4,3]((2,6,9),(4,15,24),(1,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,11),(4,15,24),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((4,12,19),(2,7,11),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(4,12,19),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,9),(1,2,3),(4,12,19),(2,7,11)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,9,14),(1,2,3),(4,12,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(3,9,14),(4,12,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(3,9,14),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(2,6,9),(3,9,14)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,5),(1,0,0),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,5),(1,0,0),(1,4,7)); lvl=2; h,r-ind=1,1
[4,3]((2,7,10),(1,5,5),(2,6,9),(1,0,0)); lvl=1; h,r-ind=3,1
  [4,3]((1,3,4),(2,5,5),(1,2,3),(1,0,0)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(4,9,12),(1,0,0),(2,3,3)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((1,1,1),(2,4,5),(5,9,12)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,3),(4,9,12),(2,4,5),(5,9,12)); lvl=4; h,r-ind=1,3
        [3,3]((3,6,8),(4,9,12),(2,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((5,9,12),(3,6,8),(2,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(5,9,12),(3,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(3,6,8),(4,9,12)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,3),(1,0,0),(1,1,1),(5,9,12)); lvl=4; h,r-ind=1,3
        [3,3]((2,3,4),(1,0,0),(1,1,1)); lvl=5; h,r-ind=1,1
        [3,3]((5,9,12),(2,3,4),(1,1,1)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(5,9,12),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(2,3,4),(1,0,0)); lvl=5; h,r-ind=1,1
```

```
      [3,3]((1,1,1),(2,3,3),(2,4,5)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,4),(4,9,12),(1,2,2),(2,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(2,4,5),(2,3,3),(4,9,11)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,3),(2,4,5),(3,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,11),(2,4,5),(3,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(4,9,11),(3,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,3),(3,6,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(1,2,2),(4,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,4,5),(4,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,4,5),(4,9,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,5),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,2,3),(4,9,12)); lvl=3; h,r-ind=1,1
  [3,3]((2,6,9),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,10),(2,6,9),(1,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,4),(1,4,5),(1,5,5),(2,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,7),(4,14,17),(1,4,5),(1,5,5)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((5,19,22),(1,4,5),(2,7,8),(4,14,17)); lvl=4; h,r-ind=1,3
        [3,3]((3,11,13),(4,14,17),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((5,19,22),(3,11,13),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(5,19,22),(3,11,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(3,11,13),(4,14,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,4),(5,19,22),(2,7,8)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((1,4,4),(2,7,7),(2,7,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,4),(5,19,22),(1,5,5),(1,4,5)); lvl=4; h,r-ind=1,3
        [3,3]((2,8,9),(5,19,22),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,5),(2,8,9),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(1,5,5),(2,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(2,8,9),(5,19,22)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,4),(1,3,3),(2,7,7),(4,14,17)); lvl=3; h,r-ind=1,1
      [4,3]((4,13,15),(1,3,3),(2,7,8),(2,7,7)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,8),(2,7,7),(3,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,7),(3,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((4,13,15),(1,3,3),(3,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((4,13,15),(2,7,8),(3,10,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(4,13,15),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((4,14,17),(1,3,4),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(4,13,15),(1,3,3)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,3),(2,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(4,14,17),(1,4,5)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,10),(1,3,4),(1,4,5)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,5,5),(1,0,0)); lvl=1; h,r-ind=5,5; optimized-h
[5,3]((2,7,10),(1,5,8),(2,6,9),(3,15,25),(2,9,15)); lvl=1; h,r-ind=1,1
  [3,3]((3,14,23),(2,9,15),(3,15,25)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,8),(3,14,23),(3,15,25)); lvl=2; h,r-ind=1,1
  [4,3]((4,15,24),(3,14,23),(3,12,19),(2,9,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,13),(3,12,19),(3,13,21)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,15),(2,8,13),(3,14,23),(3,13,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,21),(2,8,13),(5,22,36)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,15),(2,8,13),(5,22,36)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,23),(2,9,15),(5,22,36)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,23),(3,13,21),(5,22,36)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,13),(4,15,24),(3,12,19)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,6),(2,6,9),(4,15,24),(3,12,19)); lvl=2; h,r-ind=1,1
    [4,3]((3,12,19),(6,23,36),(2,7,11),(4,15,24)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,19,30),(2,7,11),(6,23,36)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,19),(5,19,30),(6,23,36)); lvl=4; h,r-ind=1,1
      [3,3]((4,15,24),(5,19,30),(2,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,19),(4,15,24),(5,19,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(3,12,19),(6,23,36)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(6,23,36),(2,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,6,9),(2,7,11)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,10),(1,4,6),(2,6,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,6),(1,5,8),(3,14,23),(3,12,19)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,8),(5,22,35),(3,14,23),(3,13,21)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,18,29),(5,22,35),(3,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,23),(4,18,29),(3,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(3,14,23),(4,18,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(4,18,29),(5,22,35)); lvl=4; h,r-ind=1,1
    [4,3]((3,12,19),(1,4,6),(5,22,35),(3,13,21)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,17,27),(1,4,6),(5,22,35)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,27),(3,13,21),(5,22,35)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,19),(4,17,27),(3,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,19),(4,17,27),(1,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(1,5,8),(5,22,35)); lvl=3; h,r-ind=1,1
```

21.30 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,13,21)); lvl=0; h,r-ind=21,441
  [5,3]((1,3,4),(1,4,6),(2,11,15),(1,4,4),(2,11,11)); lvl=1; h,r-ind=1,1
    [4,3]((1,5,6),(2,11,13),(2,11,11),(1,5,5)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,5),(4,21,23),(2,11,12),(2,11,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,16,17),(4,21,23),(2,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,11),(3,16,17),(2,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(2,11,11),(3,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(3,16,17),(4,21,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,5),(4,21,23)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,6),(4,21,23),(2,11,13),(2,11,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,16,18),(2,11,12),(2,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(3,16,18),(2,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,23),(3,16,18),(2,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(4,21,23),(3,16,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,11),(1,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,4),(1,4,5),(2,9,11),(1,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,10),(1,4,5),(2,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(2,9,10),(2,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,9,10),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,4,4),(2,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,4),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,6),(1,5,7),(1,4,5),(2,9,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,12),(2,9,11),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,9,12),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,12),(1,4,5),(2,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,9,12),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,6),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,7),(1,5,6),(2,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,7),(1,5,6),(2,11,15),(2,11,13)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,6),(4,21,27),(2,11,14),(2,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,16,20),(4,21,27),(2,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,13),(3,16,20),(2,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,11,13),(3,16,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(3,16,20),(4,21,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(1,5,6),(4,21,27)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,7),(4,21,27),(2,11,15),(2,11,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,14),(2,11,15),(3,16,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(2,11,15),(3,16,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,27),(2,11,14),(3,16,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(4,21,27),(3,16,21)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(2,11,11)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,4,4)); lvl=1; h,r-ind=4,4; optimized-h
  [4,3]((0,1,0),(3,19,30),(2,11,15),(2,11,11)); lvl=1; h,r-ind=1,1
    [4,3]((1,6,7),(1,6,9),(2,11,15),(2,11,13)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((1,6,9),(1,6,8),(2,11,14),(2,11,15)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,8),(2,11,14),(3,17,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,15),(2,11,14),(3,17,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,9),(1,6,8),(3,17,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,15),(1,6,9),(3,17,23)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,7),(2,11,13),(1,6,8),(2,11,14)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,13),(2,11,14),(3,17,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(2,11,14),(3,17,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(1,6,8),(3,17,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(2,11,13),(3,17,21)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,11),(1,6,7),(1,6,6),(2,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,6),(1,6,7),(4,23,25)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,12),(2,11,13),(1,6,7),(4,23,25)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,13),(1,6,7),(3,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((4,23,25),(1,6,7),(3,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(2,11,13),(3,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((4,23,25),(2,11,12),(3,17,19)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,11),(2,11,12),(1,6,6),(4,23,25)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,18),(4,23,25),(2,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,11),(3,17,18),(2,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(2,11,11),(3,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(3,17,18),(4,23,25)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(2,11,11),(1,6,6)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(6,38,45),(1,6,7),(1,6,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,13,15),(6,38,45),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,14),(2,13,15),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,14),(1,6,6),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,13,14),(1,6,6)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((0,1,0),(2,13,14),(2,13,15)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((6,38,45),(3,19,26),(1,6,7),(1,6,9)); lvl=2; h,r-ind=1,1
      [4,3]((3,19,26),(3,19,24),(1,6,9),(1,6,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,8),(1,6,9),(5,31,42)); lvl=4; h,r-ind=1,1
        [4,3]((3,19,25),(3,19,26),(1,6,9),(5,31,42)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,25,34),(3,19,26),(1,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((5,31,42),(4,25,34),(1,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,25),(5,31,42),(4,25,34)); lvl=5; h,r-ind=1,1
```

```
        [3,3]((3,19,25),(4,25,34),(3,19,26)); lvl=5; h,r-ind=1,1
      [4,3]((3,19,24),(3,19,25),(1,6,8),(5,31,42)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,19,25),(5,31,42),(4,25,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(5,31,42),(4,25,33)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,24),(1,6,8),(4,25,33)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,24),(3,19,25),(4,25,33)); lvl=5; h,r-ind=1,1
    [4,3]((3,19,23),(3,19,24),(1,6,7),(1,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,25,31),(1,6,8),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,23),(4,25,31),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,24),(4,25,31),(1,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,23),(3,19,24),(4,25,31)); lvl=4; h,r-ind=1,1
    [3,3]((6,38,45),(3,19,23),(1,6,7)); lvl=3; h,r-ind=1,1
  [4,3]((2,13,19),(2,13,18),(3,19,26),(1,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,19,27),(2,13,18),(3,19,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,9),(3,19,27),(3,19,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,19),(3,19,27),(2,13,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,9),(2,13,19),(3,19,27)); lvl=3; h,r-ind=1,1
  [4,3]((3,20,30),(3,19,30),(2,13,19),(1,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,9),(3,19,30),(2,13,20)); lvl=3; h,r-ind=1,1
    [3,3]((5,32,48),(1,6,9),(2,13,20)); lvl=3; h,r-ind=1,1
    [4,3]((3,20,30),(5,32,48),(2,13,19),(2,13,20)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,13,19),(5,32,48),(4,26,39)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,20),(5,32,48),(4,26,39)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,30),(2,13,19),(4,26,39)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,20),(3,20,30),(4,26,39)); lvl=4; h,r-ind=1,1
    [3,3]((5,32,48),(2,13,19),(1,6,9)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(3,20,30),(2,13,19),(2,13,18)); lvl=2; h,r-ind=1,1
    [4,3]((6,40,57),(3,20,30),(1,7,10),(2,13,19)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((3,20,29),(1,7,10),(3,20,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,29),(2,13,19),(3,20,30)); lvl=4; h,r-ind=1,1
      [3,3]((6,40,57),(3,20,29),(2,13,19)); lvl=4; h,r-ind=1,1
      [3,3]((6,40,57),(3,20,29),(1,7,10)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,18),(3,20,28),(6,40,57),(2,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,20,28),(5,33,47),(6,40,57)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,19),(5,33,47),(6,40,57)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,18),(3,20,28),(5,33,47)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,19),(2,13,18),(5,33,47)); lvl=4; h,r-ind=1,1
    [4,3]((3,20,28),(6,40,57),(1,7,9),(1,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(1,7,10),(4,27,38)); lvl=4; h,r-ind=1,1
      [3,3]((6,40,57),(1,7,10),(4,27,38)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,28),(1,7,9),(4,27,38)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,28),(6,40,57),(4,27,38)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,7,9),(1,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,18),(3,20,28),(1,7,9)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(6,38,45),(2,13,18),(3,19,26)); lvl=2; h,r-ind=1,1
    [4,3]((2,13,17),(2,13,16),(3,19,24),(3,19,26)); lvl=3; h,r-ind=1,1
      [4,3]((7,45,58),(3,19,25),(2,13,16),(3,19,24)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,19,25),(3,19,24),(5,32,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,16),(3,19,24),(5,32,41)); lvl=5; h,r-ind=1,1
        [3,3]((7,45,58),(2,13,16),(5,32,41)); lvl=5; h,r-ind=1,1
        [3,3]((7,45,58),(3,19,25),(5,32,41)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,17),(7,45,58),(2,13,16)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,17),(7,45,58),(3,19,26),(3,19,25)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,19,26),(5,32,42),(3,19,25)); lvl=5; h,r-ind=1,1
        [3,3]((7,45,58),(5,32,42),(3,19,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,17),(7,45,58),(5,32,42)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,17),(3,19,26),(5,32,42)); lvl=5; h,r-ind=1,1
    [3,3]((2,13,18),(2,13,17),(3,19,26)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,9),(3,20,25),(2,13,18),(2,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,20,26),(2,13,17),(2,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(3,20,26),(2,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,25),(1,7,9),(3,20,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,25),(3,20,26),(2,13,17)); lvl=4; h,r-ind=1,1
    [4,3]((3,20,24),(3,20,25),(2,13,17),(2,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,20,25),(2,13,17),(5,33,41)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,16),(2,13,17),(5,33,41)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,24),(3,20,25),(5,33,41)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,16),(3,20,24),(5,33,41)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(1,7,9),(3,20,24),(3,20,25)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,8),(5,34,42),(3,20,24),(3,20,25)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,20,24),(4,27,33),(3,20,25)); lvl=5; h,r-ind=1,1
        [3,3]((5,34,42),(4,27,33),(3,20,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(3,20,24),(4,27,33)); lvl=5; h,r-ind=1,1
        [3,3]((5,34,42),(1,7,8),(4,27,33)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(5,34,42),(3,20,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(1,7,9),(5,34,42)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,8),(1,7,9)); lvl=4; h,r-ind=1,1
    [3,3]((3,19,23),(2,13,16),(3,19,24)); lvl=3; h,r-ind=1,1
    [4,3]((3,20,24),(2,13,15),(3,19,23),(2,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,15),(4,26,31),(3,19,23)); lvl=4; h,r-ind=1,1
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```
        [3,3]((2,13,16),(4,26,31),(3,19,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,20,24),(2,13,16),(4,26,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,20,24),(2,13,15),(4,26,31)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(3,20,24),(2,13,15)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,13,15),(6,38,45),(3,19,23)); lvl=3; h,r-ind=1,1
  [3,3]((2,13,21),(0,1,0),(3,19,30)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,5,8),(1,4,6),(3,19,30),(2,11,15)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,7),(1,6,9),(2,11,15)); lvl=2; h,r-ind=1,1
    [4,3]((3,16,24),(6,33,50),(1,5,7),(1,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((6,33,50),(1,6,9),(4,22,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(1,6,9),(4,22,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,24),(6,33,50),(4,22,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,24),(1,5,7),(4,22,33)); lvl=3; h,r-ind=1,1
    [4,3]((6,33,50),(2,11,17),(2,12,19),(1,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,17,26),(2,11,17),(2,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,9),(3,17,26),(2,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((6,33,50),(3,17,26),(2,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,9),(6,33,50),(3,17,26)); lvl=3; h,r-ind=1,1
    [3,3]((3,19,30),(2,12,19),(1,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,8),(2,11,17),(2,12,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,16,24),(1,5,7),(1,4,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((1,5,8),(3,16,24),(6,33,50),(2,11,17),(1,4,6)); lvl=2; h,r-ind=1,1
      [4,3]((5,27,41),(4,21,32),(2,11,17),(7,37,57)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,32,49),(4,21,32),(7,37,57)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,17),(6,32,49),(7,37,57)); lvl=4; h,r-ind=1,1
        [3,3]((5,27,41),(6,32,49),(4,21,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,17),(5,27,41),(6,32,49)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,11,17),(7,37,57)); lvl=3; h,r-ind=1,1
      [5,3]((1,4,6),(2,10,15),(1,5,8),(4,21,32),(7,37,57)); lvl=3; h,r-ind=1,1
        [4,3]((5,26,40),(4,21,32),(7,36,55),(8,41,63)); lvl=4; h,r-ind=1,1
          [3,3]((12,62,95),(7,36,55),(4,21,32)); lvl=5; h,r-ind=1,1
          [3,3]((5,26,40),(12,62,95),(4,21,32)); lvl=5; h,r-ind=1,1
          [3,3]((8,41,63),(12,62,95),(7,36,55)); lvl=5; h,r-ind=1,1
          [3,3]((5,26,40),(8,41,63),(12,62,95)); lvl=5; h,r-ind=1,1
        [4,3]((2,10,15),(3,15,23),(7,36,55),(8,41,63)); lvl=4; h,r-ind=1,1
          [3,3]((10,51,78),(8,41,63),(3,15,23)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,15),(10,51,78),(3,15,23)); lvl=5; h,r-ind=1,1
          [3,3]((7,36,55),(10,51,78),(8,41,63)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,15),(7,36,55),(10,51,78)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(3,15,23),(8,41,63)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(1,5,8),(3,15,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(2,10,15),(3,15,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(5,26,40),(8,41,63)); lvl=4; h,r-ind=1,1
        [3,3]((7,37,57),(5,26,40),(4,21,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(7,37,57),(5,26,40)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,15),(4,21,32),(7,36,55)); lvl=4; h,r-ind=1,1
      [3,3]((6,33,50),(5,27,41),(2,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,24),(6,33,50),(5,27,41)); lvl=3; h,r-ind=1,1
      [4,3]((2,10,15),(3,16,24),(5,27,41),(4,21,32)); lvl=3; h,r-ind=1,1
        [3,3]((7,37,56),(5,27,41),(3,16,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,15),(7,37,56),(3,16,24)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,32),(2,10,15),(7,37,56)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,32),(7,37,56),(5,27,41)); lvl=4; h,r-ind=1,1
  [3,3]((2,13,21),(1,5,8),(3,19,30)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(2,13,21),(1,5,8)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,4),(1,4,4)); lvl=1; h,r-ind=4,4; optimized-h
  [4,3]((1,0,0),(1,3,4),(1,4,6),(2,7,11)); lvl=1; h,r-ind=1,2
    [3,3]((1,2,3),(1,3,4),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,11),(1,2,3),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,7,11),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,8),(1,4,6),(2,7,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,5,8),(2,7,11)); lvl=1; h,r-ind=1,1
```

21.31 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,14,21)); lvl=0; h,r-ind=21,63
  [3,3]((1,0,0),(1,4,6),(1,4,4)); lvl=1; h,r-ind=8,4; optimized-h
  [5,3]((1,7,10),(1,6,9),(2,11,11),(1,4,6),(1,4,4)); lvl=1; h,r-ind=1,1
    [5,3]((2,10,13),(2,11,14),(1,4,4),(1,4,5),(1,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,10,13),(2,11,14),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(2,11,14),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,13),(1,4,5),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,4),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,4,4),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,7),(2,11,14),(1,5,5)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,6,7),(2,11,11),(1,5,5)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,7,10),(1,6,7),(2,11,14)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,4,6),(1,5,7),(2,10,13),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,7),(2,10,13),(2,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,10,13),(2,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,5,7),(2,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,6),(2,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,9),(1,4,6),(1,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,7),(2,11,15),(2,10,13),(2,11,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,15),(2,11,14),(3,16,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,13),(2,11,14),(3,16,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,15),(3,16,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,10,13),(3,16,21)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,10),(2,12,17),(2,11,15),(2,11,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,15),(2,12,17),(5,29,40)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,10),(1,6,8),(2,12,17),(5,29,40)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,6,8),(3,18,25),(5,29,40)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,17),(3,18,25),(5,29,40)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,10),(1,6,8),(3,18,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,17),(1,7,10),(3,18,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,15),(5,29,40)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,14),(2,11,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,9),(2,12,17),(1,5,7),(2,11,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,12,17),(2,11,15),(3,17,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,15),(3,17,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,9),(2,12,17),(3,17,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(1,6,9),(3,17,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,10),(1,6,9),(2,12,17)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,11,11),(1,4,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,7,10),(0,1,0),(2,11,11)); lvl=1; h,r-ind=9,27; optimized-h
  [3,3]((2,14,21),(1,7,10),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,14,21),(1,7,10),(1,6,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,4,4)); lvl=1; h,r-ind=4,4; optimized-h
```

21.32 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,15,21)); lvl=0; h,r-ind=21,147
  [4,3]((2,9,12),(4,12,15),(1,0,0),(1,5,7)); lvl=1; h,r-ind=3,3
    [3,3]((5,12,15),(1,3,4),(1,0,0)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,5,7),(1,3,4),(1,0,0)); lvl=2; h,r-ind=1,1
    [4,3]((4,12,15),(2,7,9),(5,12,15),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(6,18,23)); lvl=3; h,r-ind=1,1
      [4,3]((4,12,15),(3,8,10),(2,7,9),(6,18,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,15,19),(6,18,23),(3,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,12,15),(5,15,19),(3,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((5,15,19),(2,7,9),(6,18,23)); lvl=4; h,r-ind=1,1
        [3,3]((4,12,15),(5,15,19),(2,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,10),(1,3,4),(6,18,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,15),(3,8,10),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(2,7,9),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,12),(1,3,4)); lvl=2; h,r-ind=1,1
  [6,3]((4,29,40),(7,51,70),(2,14,19),(1,6,8),(2,9,12),(1,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((6,43,59),(2,14,19),(7,51,70)); lvl=2; h,r-ind=1,1
    [3,3]((4,29,40),(6,43,59),(7,51,70)); lvl=2; h,r-ind=1,1
    [4,3]((4,27,37),(6,43,59),(10,67,91),(2,14,19)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((6,43,59),(5,35,48),(8,55,75),(2,14,19)); lvl=3; h,r-ind=1,2
        [3,3]((5,35,48),(7,49,67),(8,55,75)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,19),(7,49,67),(8,55,75)); lvl=4; h,r-ind=1,1
        [3,3]((6,43,59),(5,35,48),(7,49,67)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,19),(6,43,59),(7,49,67)); lvl=4; h,r-ind=1,1
      [4,3]((7,47,64),(10,67,91),(8,55,75),(2,14,19)); lvl=3; h,r-ind=1,2
        [3,3]((2,14,19),(10,67,91),(9,61,83)); lvl=4; h,r-ind=1,1
        [3,3]((7,47,64),(10,67,91),(9,61,83)); lvl=4; h,r-ind=1,1
        [3,3]((8,55,75),(2,14,19),(9,61,83)); lvl=4; h,r-ind=1,1
        [3,3]((7,47,64),(8,55,75),(9,61,83)); lvl=4; h,r-ind=1,1
      [3,3]((4,27,37),(5,35,48),(8,55,75)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((4,27,37),(7,47,64),(8,55,75)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((10,67,91),(2,14,19),(1,6,8)); lvl=2; h,r-ind=1,1
    [4,3]((4,27,37),(10,67,91),(2,11,15),(1,6,8)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((7,47,64),(6,39,53),(10,67,91),(1,6,8)); lvl=3; h,r-ind=1,2
        [3,3]((6,39,53),(1,6,8),(8,53,72)); lvl=4; h,r-ind=1,1
        [3,3]((10,67,91),(1,6,8),(8,53,72)); lvl=4; h,r-ind=1,1
        [3,3]((7,47,64),(10,67,91),(8,53,72)); lvl=4; h,r-ind=1,1
        [3,3]((7,47,64),(6,39,53),(8,53,72)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,15),(3,19,26),(6,39,53),(1,6,8)); lvl=3; h,r-ind=1,2
        [3,3]((3,19,26),(4,25,34),(6,39,53)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(4,25,34),(6,39,53)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,15),(3,19,26),(4,25,34)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,6,8),(2,11,15),(4,25,34)); lvl=4; h,r-ind=1,1
    [3,3]((4,27,37),(7,47,64),(6,39,53)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((4,27,37),(3,19,26),(6,39,53)); lvl=3; h,r-ind=2,2; optimized-h
  [3,3]((2,11,15),(1,6,8),(2,9,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,7),(2,11,15),(2,9,12)); lvl=2; h,r-ind=1,1
  [4,3]((4,29,40),(5,34,47),(4,27,37),(6,43,59)); lvl=2; h,r-ind=1,1
    [3,3]((3,21,29),(4,27,37),(5,34,47)); lvl=3; h,r-ind=1,1
    [3,3]((3,21,29),(5,35,48),(4,27,37)); lvl=3; h,r-ind=1,1
    [4,3]((4,29,40),(3,21,29),(6,43,59),(5,35,48)); lvl=3; h,r-ind=1,1
      [3,3]((9,64,88),(5,35,48),(3,21,29)); lvl=4; h,r-ind=1,1
      [3,3]((4,29,40),(9,64,88),(3,21,29)); lvl=4; h,r-ind=1,1
      [3,3]((6,43,59),(9,64,88),(5,35,48)); lvl=4; h,r-ind=1,1
      [3,3]((4,29,40),(6,43,59),(9,64,88)); lvl=4; h,r-ind=1,1
  [4,3]((5,34,47),(4,27,37),(1,5,7),(2,11,15)); lvl=2; h,r-ind=1,1
    [4,3]((2,13,18),(1,5,7),(2,11,15),(3,19,26)); lvl=3; h,r-ind=1,1
      [3,3]((4,24,33),(2,11,15),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,18),(4,24,33),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,26),(4,24,33),(2,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,18),(3,19,26),(4,24,33)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,18),(4,27,37),(3,19,26)); lvl=3; h,r-ind=1,1
    [3,3]((5,34,47),(2,13,18),(4,27,37)); lvl=3; h,r-ind=1,1
[3,3]((2,15,21),(4,29,40),(1,5,7)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((2,15,21),(4,29,40),(7,51,70)); lvl=1; h,r-ind=1,1
[3,3]((2,13,17),(2,14,19),(1,6,8)); lvl=1; h,r-ind=1,1
[5,3]((0,1,0),(2,11,11),(7,51,70),(2,13,17),(2,14,19)); lvl=1; h,r-ind=1,1
  [3,3]((3,21,28),(2,14,19),(2,13,17)); lvl=2; h,r-ind=1,1
  [4,3]((1,7,9),(1,6,7),(3,21,28),(2,13,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,13,17),(3,20,26),(1,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,9),(3,20,26),(1,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,9),(3,21,28),(3,20,26)); lvl=3; h,r-ind=1,1
    [3,3]((3,21,28),(2,13,17),(3,20,26)); lvl=3; h,r-ind=1,1
  [4,3]((3,22,30),(2,15,20),(1,7,9),(3,21,28)); lvl=2; h,r-ind=1,1
    [3,3]((2,15,20),(4,29,39),(1,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,21,28),(4,29,39),(1,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,22,30),(3,21,28),(4,29,39)); lvl=3; h,r-ind=1,1
    [3,3]((3,22,30),(2,15,20),(4,29,39)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,9),(1,6,7),(1,7,8)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,7),(1,6,6),(2,14,15),(1,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,6),(2,13,14),(2,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,8),(2,13,14),(2,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,7),(1,7,8),(2,13,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,7),(1,6,6),(2,13,14)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,14,15),(1,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,6),(2,14,15)); lvl=2; h,r-ind=3,9; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,6,7),(2,11,11),(1,6,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,11,11),(1,6,6)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,15,20),(1,7,9),(1,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,8,10),(2,15,18),(1,7,9),(2,15,20)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,15,19),(2,15,18),(1,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,20),(2,15,19),(1,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,10),(2,15,20),(2,15,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,10),(2,15,19),(2,15,18)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,18),(1,7,8),(1,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,15,18),(1,7,8)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,8,10),(0,1,0),(2,15,18)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((3,22,30),(3,21,28),(2,14,19),(7,51,70)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((5,36,49),(2,14,19),(3,21,28)); lvl=3; h,r-ind=1,1
    [3,3]((3,22,30),(5,36,49),(3,21,28)); lvl=3; h,r-ind=1,1
    [3,3]((7,51,70),(5,36,49),(2,14,19)); lvl=3; h,r-ind=1,1
    [3,3]((3,22,30),(7,51,70),(5,36,49)); lvl=3; h,r-ind=1,1
[3,3]((2,15,21),(0,1,0),(7,51,70)); lvl=1; h,r-ind=7,7; optimized-h
[3,3]((4,12,15),(1,3,3),(1,0,0)); lvl=1; h,r-ind=9,3; optimized-h
[3,3]((0,1,0),(1,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
[6,3]((2,11,11),(2,13,17),(1,6,8),(2,9,12),(4,12,15),(1,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((3,18,23),(1,6,8),(5,29,37),(2,13,17)); lvl=2; h,r-ind=1,1
    [3,3]((4,24,31),(1,6,8),(5,29,37)); lvl=3; h,r-ind=1,1
    [3,3]((3,18,23),(4,24,31),(5,29,37)); lvl=3; h,r-ind=1,1
    [3,3]((3,18,23),(2,13,17),(4,24,31)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,17),(4,24,31),(1,6,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,7),(3,18,23),(2,13,17)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,6,7),(3,18,23),(1,5,6),(5,29,37)); lvl=2; h,r-ind=1,1
    [3,3]((3,18,23),(4,23,29),(5,29,37)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(4,23,29),(5,29,37)); lvl=3; h,r-ind=1,1
    [4,3]((3,18,23),(2,12,15),(4,23,29),(7,40,50)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,15),(7,40,50),(6,35,44)); lvl=4; h,r-ind=1,1
      [3,3]((4,23,29),(7,40,50),(6,35,44)); lvl=4; h,r-ind=1,1
      [3,3]((3,18,23),(4,23,29),(6,35,44)); lvl=4; h,r-ind=1,1
      [3,3]((3,18,23),(2,12,15),(6,35,44)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,7),(1,5,6),(2,12,15),(7,40,50)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,21),(1,5,6),(7,40,50)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((3,17,21),(2,12,15),(7,40,50)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(3,17,21),(2,12,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(3,17,21),(1,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(4,23,29),(7,40,50)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,7),(1,5,5),(1,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,5),(2,9,9),(1,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,7),(2,11,11),(1,5,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,6),(1,4,5),(1,6,8),(5,29,37)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((2,11,14),(1,4,5),(1,6,8)); lvl=3; h,r-ind=1,1
    [3,3]((5,29,37),(2,11,14),(1,6,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(5,29,37),(2,11,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(2,11,14),(1,4,5)); lvl=3; h,r-ind=1,1
  [4,3]((2,9,9),(1,3,3),(1,5,6),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,4),(1,3,3),(3,13,15),(1,4,5)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,8,9),(1,3,3),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,15),(2,8,9),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(3,13,15),(2,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(2,8,9),(1,3,3)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(3,13,15),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,4),(3,13,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,9),(1,5,6),(1,4,4)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,3),(1,4,5),(5,15,18)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,9,12),(1,4,5),(1,6,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,12),(2,7,9),(1,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,9),(1,4,5),(5,15,18),(4,12,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(3,9,11),(5,15,18)); lvl=3; h,r-ind=1,1
    [3,3]((6,20,25),(1,4,5),(3,9,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,9),(4,12,15),(6,20,25),(3,9,11)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,9,11),(4,12,15),(5,16,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,9),(4,12,15),(5,16,20)); lvl=4; h,r-ind=1,1
      [3,3]((6,20,25),(3,9,11),(5,16,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,9),(6,20,25),(5,16,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,9),(6,20,25),(1,4,5)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(2,11,11),(1,3,3)); lvl=1; h,r-ind=5,5; optimized-h
```

21.33 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,16,21)); lvl=0; h,r-ind=21,441
  [5,3]((1,4,5),(1,3,3),(1,7,9),(2,15,19),(2,11,11)); lvl=1; h,r-ind=1,1
    [4,3]((1,6,7),(2,13,15),(2,11,11),(1,5,5)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,5),(4,23,25),(2,12,13),(2,11,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,18),(2,12,13),(4,23,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(3,17,18),(4,23,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,11),(3,17,18),(2,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(2,11,11),(3,17,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(1,5,5),(4,23,25)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,7),(4,23,25),(2,13,15),(2,12,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,23,25),(3,18,20),(2,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,15),(3,18,20),(2,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(2,13,15),(3,18,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(4,23,25),(3,18,20)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,13),(2,9,9),(1,6,7),(1,5,5)); lvl=2; h,r-ind=1,1
      [4,3]((2,10,11),(2,9,9),(1,5,5),(4,21,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,5),(3,15,16),(2,9,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(3,15,16),(2,9,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,23),(1,5,5),(3,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(4,21,23),(3,15,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(1,5,5),(4,21,23)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,7),(2,11,13),(2,10,11),(4,21,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,10,11),(2,11,13),(3,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(2,11,13),(3,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,23),(2,10,11),(3,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(4,21,23),(3,16,18)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,13),(1,3,3),(1,5,6),(2,9,9)); lvl=2; h,r-ind=1,1
      [4,3]((5,24,27),(1,4,4),(1,3,3),(1,5,6)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,9,10),(1,4,4),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,9,10),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,24,27),(2,9,10),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(5,24,27),(2,9,10)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,13),(3,15,17),(5,24,27),(1,5,6)); lvl=3; h,r-ind=1,1
        [3,3]((3,15,17),(4,20,23),(5,24,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(4,20,23),(5,24,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,13),(1,5,6),(4,20,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,13),(3,15,17),(4,20,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,11),(2,11,13),(3,15,17)); lvl=3; h,r-ind=1,1
      [4,3]((2,10,11),(3,15,17),(5,24,27),(1,4,4)); lvl=3; h,r-ind=1,1
        [3,3]((3,15,17),(4,19,21),(5,24,27)); lvl=4; h,r-ind=1,1
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      [3,3]((1,4,4),(4,19,21),(5,24,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,11),(3,15,17),(4,19,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(2,10,11),(4,19,21)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,11),(1,4,4),(2,9,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,5),(1,3,3),(1,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,7),(2,15,19),(2,13,16),(2,13,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,14,17),(2,15,19),(4,27,33)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,13,16),(2,15,19),(4,27,33)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,6,7),(2,13,16),(4,27,33)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,7),(2,13,15),(2,14,17),(4,27,33)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,13,15),(3,20,24),(2,14,17)); lvl=4; h,r-ind=1,1
      [3,3]((4,27,33),(3,20,24),(2,14,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(4,27,33),(3,20,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,13,15),(3,20,24)); lvl=4; h,r-ind=1,1
  [3,3]((1,7,9),(2,15,19),(2,13,16)); lvl=2; h,r-ind=1,1
  [4,3]((2,11,13),(1,5,6),(1,7,9),(2,13,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,18,22),(1,7,9),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,13),(3,18,22),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,16),(3,18,22),(1,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,13),(2,13,16),(3,18,22)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,5),(1,5,6),(1,7,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,11,13),(1,6,7),(2,13,16)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(1,8,10),(2,15,19),(2,11,11)); lvl=1; h,r-ind=1,1
  [4,3]((2,13,14),(2,15,18),(2,15,19),(2,13,15)); lvl=2; h,r-ind=4,2; alert-h-inc; alert-r-inc
    [3,3]((1,7,8),(2,15,19),(2,15,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,8),(2,14,17),(2,15,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,8),(2,13,15),(2,14,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,8),(2,13,14),(2,13,15)); lvl=3; h,r-ind=1,1
  [4,3]((2,11,11),(1,6,6),(2,13,14),(2,13,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,6),(2,13,14),(4,25,27)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,15),(2,13,14),(4,25,27)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,11,11),(2,12,13),(1,6,6),(4,25,27)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,18,19),(4,25,27),(2,12,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,11),(3,18,19),(2,12,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,18,19),(1,6,6),(4,25,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,11),(3,18,19),(1,6,6)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,15),(2,12,13),(4,25,27)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,15,18),(1,8,10),(2,15,19)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,15,15),(2,15,18),(1,8,10)); lvl=2; h,r-ind=1,2; alert-r-inc
    [4,3]((2,16,17),(1,8,9),(4,30,33),(2,15,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,9),(7,54,60),(2,15,17),(2,15,18)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,23,26),(7,54,60),(2,15,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,18),(3,23,26),(2,15,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(2,15,18),(3,23,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(3,23,26),(7,54,60)); lvl=5; h,r-ind=1,1
      [4,3]((2,16,17),(4,31,34),(1,8,9),(7,54,60)); lvl=4; h,r-ind=1,1
        [3,3]((4,31,34),(7,54,60),(5,39,43)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(7,54,60),(5,39,43)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,17),(4,31,34),(5,39,43)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(2,16,17),(5,39,43)); lvl=5; h,r-ind=1,1
      [4,3]((3,23,25),(4,31,34),(7,54,60),(2,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((4,31,34),(6,46,51),(7,54,60)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,17),(6,46,51),(7,54,60)); lvl=5; h,r-ind=1,1
        [3,3]((3,23,25),(4,31,34),(6,46,51)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,17),(3,23,25),(6,46,51)); lvl=5; h,r-ind=1,1
      [3,3]((3,23,25),(4,30,33),(2,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,16,17),(3,23,25),(4,31,34)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,10),(1,8,9),(2,15,18)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,8,10),(1,8,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,8),(2,16,17),(2,15,15),(4,30,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,16),(3,23,25),(4,30,33)); lvl=4; h,r-ind=1,1
      [4,3]((7,54,57),(4,31,33),(2,15,16),(3,23,25)); lvl=4; h,r-ind=1,1
        [3,3]((6,46,49),(4,31,33),(3,23,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,16),(6,46,49),(3,23,25)); lvl=5; h,r-ind=1,1
        [3,3]((7,54,57),(6,46,49),(4,31,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,16),(7,54,57),(6,46,49)); lvl=5; h,r-ind=1,1
      [3,3]((2,16,17),(4,31,33),(3,23,25)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,8),(7,54,57),(2,15,15),(2,15,16)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,15,16),(2,15,15),(3,23,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,8),(2,15,15),(3,23,24)); lvl=5; h,r-ind=1,1
        [3,3]((7,54,57),(2,15,16),(3,23,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,8),(7,54,57),(3,23,24)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,8),(2,16,17),(7,54,57),(4,31,33)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,17),(4,31,33),(5,39,41)); lvl=5; h,r-ind=1,1
        [3,3]((7,54,57),(4,31,33),(5,39,41)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,8),(7,54,57),(5,39,41)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,8),(2,16,17),(5,39,41)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,8,8),(2,15,15)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,8,8),(2,16,17)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,16,17),(1,8,9)); lvl=3; h,r-ind=1,1
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    [4,3]((2,13,14),(1,7,7),(2,15,15),(2,15,18)); lvl=2; h,r-ind=1,1
      [4,3]((4,29,31),(3,22,24),(2,15,15),(4,30,33)); lvl=3; h,r-ind=1,1
        [4,3]((11,81,87),(3,22,24),(4,30,33),(2,15,16)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((3,22,24),(4,30,33),(5,37,40)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,16),(4,30,33),(5,37,40)); lvl=5; h,r-ind=1,1
          [3,3]((11,81,87),(3,22,24),(5,37,40)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,16),(11,81,87),(5,37,40)); lvl=5; h,r-ind=1,1
        [4,3]((6,44,47),(11,81,87),(3,22,23),(2,15,16)); lvl=4; h,r-ind=1,1
          [3,3]((2,15,16),(11,81,87),(8,59,63)); lvl=5; h,r-ind=1,1
          [3,3]((6,44,47),(11,81,87),(8,59,63)); lvl=5; h,r-ind=1,1
          [3,3]((6,44,47),(3,22,23),(8,59,63)); lvl=5; h,r-ind=1,1
          [3,3]((3,22,23),(2,15,16),(8,59,63)); lvl=5; h,r-ind=1,1
        [3,3]((3,22,23),(2,15,15),(2,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,29,31),(6,44,47),(3,22,23)); lvl=4; h,r-ind=1,1
        [4,3]((4,29,31),(6,44,47),(11,81,87),(3,22,24)); lvl=4; h,r-ind=1,1
          [3,3]((9,66,71),(6,44,47),(11,81,87)); lvl=5; h,r-ind=1,1
          [3,3]((3,22,24),(9,66,71),(11,81,87)); lvl=5; h,r-ind=1,1
          [3,3]((4,29,31),(3,22,24),(9,66,71)); lvl=5; h,r-ind=1,1
          [3,3]((4,29,31),(9,66,71),(6,44,47)); lvl=5; h,r-ind=1,1
      [4,3]((2,15,18),(1,7,8),(3,22,24),(4,30,33)); lvl=3; h,r-ind=1,1
        [3,3]((6,44,49),(3,22,24),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,17),(6,44,49),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,18),(2,15,17),(1,7,8)); lvl=4; h,r-ind=1,1
        [4,3]((2,15,17),(6,44,49),(4,30,33),(3,22,24)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,37,41),(3,22,24),(6,44,49)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,17),(5,37,41),(6,44,49)); lvl=5; h,r-ind=1,1
          [3,3]((4,30,33),(5,37,41),(3,22,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,17),(4,30,33),(5,37,41)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,8),(4,29,31),(3,22,24),(6,43,46)); lvl=3; h,r-ind=1,1
        [3,3]((3,22,24),(5,36,39),(4,29,31)); lvl=4; h,r-ind=1,1
        [3,3]((6,43,46),(5,36,39),(4,29,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(6,43,46),(5,36,39)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(3,22,24),(5,36,39)); lvl=4; h,r-ind=1,1
      [4,3]((4,29,31),(6,43,46),(1,7,7),(2,15,15)); lvl=3; h,r-ind=1,1
        [3,3]((5,36,38),(9,65,68),(1,7,7)); lvl=4; h,r-ind=1,1
        [4,3]((2,15,15),(3,22,23),(9,65,68),(1,7,7)); lvl=4; h,r-ind=1,1
          [3,3]((3,22,23),(4,29,30),(9,65,68)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(4,29,30),(9,65,68)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,15),(1,7,7),(4,29,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,15),(3,22,23),(4,29,30)); lvl=5; h,r-ind=1,1
        [3,3]((6,43,46),(5,36,38),(1,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,29,31),(6,43,46),(5,36,38)); lvl=4; h,r-ind=1,1
        [4,3]((4,29,31),(3,22,23),(5,36,38),(9,65,68)); lvl=4; h,r-ind=1,1
          [3,3]((3,22,23),(9,65,68),(8,58,61)); lvl=5; h,r-ind=1,1
          [3,3]((5,36,38),(9,65,68),(8,58,61)); lvl=5; h,r-ind=1,1
          [3,3]((4,29,31),(5,36,38),(8,58,61)); lvl=5; h,r-ind=1,1
          [3,3]((4,29,31),(3,22,23),(8,58,61)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,8),(2,13,14),(6,43,46),(1,7,7)); lvl=3; h,r-ind=1,4; alert-r-inc
        [3,3]((1,7,7),(2,14,15),(2,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(2,14,15),(2,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((6,43,46),(1,7,7),(2,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(6,43,46),(2,14,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,6),(2,13,14),(1,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,6),(1,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,11),(0,1,0),(1,6,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,7,7),(2,15,15)); lvl=2; h,r-ind=1,1
  [3,3]((2,16,21),(0,1,0),(1,8,10)); lvl=1; h,r-ind=1,1
  [3,3]((2,16,21),(1,8,10),(2,15,19)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(2,11,11)); lvl=1; h,r-ind=5,5; optimized-h
  [5,3]((2,7,9),(1,4,5),(2,10,13),(3,20,26),(1,7,9)); lvl=1; h,r-ind=1,1
    [3,3]((3,17,22),(3,20,26),(1,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((3,17,22),(6,31,40),(4,21,27),(1,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((7,38,49),(4,21,27),(6,31,40)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,22),(7,38,49),(6,31,40)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(3,17,22),(7,38,49)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(7,38,49),(4,21,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(4,21,27),(1,7,9)); lvl=2; h,r-ind=1,1
    [5,3]((2,7,9),(5,24,31),(1,4,5),(6,31,40),(4,21,27)); lvl=2; h,r-ind=1,1
      [3,3]((4,21,27),(6,31,40),(3,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((5,24,31),(6,31,40),(3,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(5,24,31),(3,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(4,21,27),(3,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(1,4,5),(3,14,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,17,22),(2,10,13),(3,20,26)); lvl=2; h,r-ind=1,1
    [4,3]((5,24,31),(3,17,22),(6,31,40),(2,10,13)); lvl=2; h,r-ind=1,1
      [3,3]((8,41,53),(3,17,22),(6,31,40)); lvl=3; h,r-ind=1,1
      [3,3]((5,24,31),(8,41,53),(6,31,40)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,13),(5,24,31),(8,41,53)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,13),(8,41,53),(3,17,22)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,9),(5,24,31),(2,10,13)); lvl=2; h,r-ind=1,1
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  [3,3]((2,16,21),(3,20,26),(1,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((2,16,21),(2,10,13),(3,20,26)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(2,7,9),(2,10,13)); lvl=1; h,r-ind=1,1
  [3,3]((2,16,21),(1,0,0),(2,10,13)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,0,0),(2,7,9),(1,4,5),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,9),(4,12,15),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(2,3,3),(4,12,15),(1,4,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,4,5),(5,15,18),(2,5,6),(4,12,15)); lvl=3; h,r-ind=1,3
        [3,3]((3,9,11),(5,15,18),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,12,15),(3,9,11),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(4,12,15),(3,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(3,9,11),(5,15,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(5,15,18),(2,5,6)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,4,5),(1,3,3),(1,2,2),(5,15,18)); lvl=3; h,r-ind=1,3
        [3,3]((2,6,7),(1,3,3),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((5,15,18),(2,6,7),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(5,15,18),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,6,7),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(2,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,3),(4,12,15)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(2,7,9),(4,12,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,16,21),(1,7,9),(2,15,19)); lvl=1; h,r-ind=1,1
```

21.34 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,18,21)); lvl=0; h,r-ind=21,147
  [3,3]((1,6,7),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,6,7),(1,8,9),(1,2,2),(2,11,11)); lvl=1; h,r-ind=1,1
    [3,3]((1,8,9),(1,5,5),(2,11,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,8),(1,8,9),(1,4,4),(1,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,8,9),(1,5,5),(2,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,5,5),(2,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(1,8,9),(2,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,7,8),(2,12,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,7),(1,7,8),(1,2,2),(1,4,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,7,8),(3,16,18),(1,4,4),(1,3,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,10,11),(1,3,3),(3,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(2,10,11),(3,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(1,7,8),(2,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(2,10,11),(1,3,3)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,2),(1,6,7),(3,16,18),(1,3,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,10),(3,16,18),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,9,10),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(2,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,9,10),(3,16,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(1,7,8),(3,16,18)); lvl=3; h,r-ind=1,1
  [3,3]((2,18,21),(1,6,7),(1,8,9)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(1,8,9),(1,9,10),(2,11,11)); lvl=1; h,r-ind=1,1
    [4,3]((1,6,6),(1,8,9),(2,15,15),(4,33,36)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((2,16,17),(5,39,42),(4,33,36),(1,8,9)); lvl=3; h,r-ind=1,3
        [3,3]((5,39,42),(3,24,26),(1,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,33,36),(3,24,26),(1,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,17),(5,39,42),(3,24,26)); lvl=4; h,r-ind=1,1
        [3,3]((4,33,36),(2,16,17),(3,24,26)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,6),(1,7,7),(5,39,42),(1,8,9)); lvl=3; h,r-ind=1,3
        [3,3]((2,15,16),(1,7,7),(5,39,42)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(2,15,16),(5,39,42)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(2,15,16),(1,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(1,6,6),(2,15,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,16,17),(1,7,7),(5,39,42)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,16,17),(2,15,15),(1,7,7)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,9,10),(2,15,15),(4,33,36)); lvl=2; h,r-ind=1,4; alert-r-inc
      [4,3]((2,17,18),(1,9,10),(2,16,17),(4,33,36)); lvl=3; h,r-ind=1,2
        [3,3]((1,9,10),(3,25,27),(4,33,36)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,17),(3,25,27),(4,33,36)); lvl=4; h,r-ind=1,1
        [3,3]((2,17,18),(2,16,17),(3,25,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,17,18),(1,9,10),(3,25,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,18),(1,8,8),(2,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,15),(1,8,8),(2,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,17,18),(2,17,17),(1,8,8)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,17,17),(1,8,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,15),(0,1,0),(1,8,8)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(2,17,18),(2,17,17),(1,9,10)); lvl=3; h,r-ind=1,2
        [3,3]((2,17,17),(1,9,9),(2,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,10),(1,9,9),(2,17,18)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((0,1,0),(1,9,10),(1,9,9)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,17,17),(1,9,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,10),(1,8,9),(4,33,36)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,6),(2,15,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,11,11),(1,6,6),(1,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,11,11),(1,6,6)); lvl=2; h,r-ind=1,1
  [3,3]((2,18,21),(0,1,0),(1,9,10)); lvl=1; h,r-ind=1,1
  [3,3]((2,18,21),(1,8,9),(1,9,10)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,11,11)); lvl=1; h,r-ind=7,7; optimized-h
```

21.35 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,20,21)); lvl=0; h,r-ind=21,441
  [3,3]((2,11,11),(0,1,0),(1,1,1)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((2,20,21),(2,11,11),(1,1,1)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((1,0,0),(2,20,21),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,11,11),(0,1,0),(1,10,10)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((2,20,21),(2,11,11),(1,10,10)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((2,20,21),(0,1,0),(1,10,10)); lvl=1; h,r-ind=1,1
```

21.36 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,4,21)); lvl=0; h,r-ind=21,147
  [5,3]((1,1,5),(3,4,17),(4,5,23),(6,8,21),(1,1,3)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,22),(4,5,23),(1,1,5)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,22),(1,1,4),(4,5,18),(1,1,5)); lvl=2; h,r-ind=1,1
      [4,3]((4,5,20),(4,5,18),(1,1,4),(8,9,38)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((4,5,18),(4,5,19),(1,1,4),(6,7,28)); lvl=4; h,r-ind=1,2
          [3,3]((4,5,19),(6,7,28),(5,6,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(6,7,28),(5,6,23)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,18),(4,5,19),(5,6,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(4,5,18),(5,6,23)); lvl=5; h,r-ind=1,1
        [4,3]((8,9,38),(6,7,29),(1,1,4),(6,7,28)); lvl=4; h,r-ind=1,2
          [3,3]((6,7,29),(6,7,28),(7,8,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(6,7,28),(7,8,33)); lvl=5; h,r-ind=1,1
          [3,3]((8,9,38),(6,7,29),(7,8,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(8,9,38),(7,8,33)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,20),(4,5,19),(6,7,28)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((4,5,20),(6,7,29),(6,7,28)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((1,1,5),(1,1,4),(8,9,38)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,5),(4,5,22),(4,5,20),(8,9,38)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [3,3]((6,7,30),(6,7,29),(4,5,20)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((4,5,21),(6,7,30),(4,5,20)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,1,5),(4,5,22),(4,5,21),(6,7,30)); lvl=4; h,r-ind=1,2
          [3,3]((4,5,22),(5,6,26),(4,5,21)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,30),(5,6,26),(4,5,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(6,7,30),(5,6,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(4,5,22),(5,6,26)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,5),(8,9,38),(6,7,30),(6,7,29)); lvl=4; h,r-ind=1,2
          [3,3]((6,7,29),(6,7,30),(7,8,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(6,7,30),(7,8,34)); lvl=5; h,r-ind=1,1
          [3,3]((8,9,38),(6,7,29),(7,8,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(8,9,38),(7,8,34)); lvl=5; h,r-ind=1,1
    [5,3]((6,8,27),(3,4,11),(1,1,3),(1,1,4),(4,5,18)); lvl=2; h,r-ind=1,1
      [5,3]((8,10,35),(1,1,4),(6,7,23),(3,4,13),(6,8,25)); lvl=3; h,r-ind=1,1
        [4,3]((1,1,4),(9,11,37),(4,5,16),(6,7,23)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((5,6,20),(9,11,37),(4,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,23),(5,6,20),(4,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(6,7,23),(5,6,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(5,6,20),(9,11,37)); lvl=5; h,r-ind=1,1
        [5,3]((9,11,37),(12,15,50),(7,9,29),(11,14,46),(4,5,16)); lvl=4; h,r-ind=1,1
          [3,3]((11,14,46),(8,10,33),(7,9,29)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,16),(8,10,33),(7,9,29)); lvl=5; h,r-ind=1,1
          [3,3]((9,11,37),(4,5,16),(8,10,33)); lvl=5; h,r-ind=1,1
          [3,3]((12,15,50),(11,14,46),(8,10,33)); lvl=5; h,r-ind=1,1
          [3,3]((12,15,50),(9,11,37),(8,10,33)); lvl=5; h,r-ind=1,1
        [3,3]((7,9,29),(6,8,25),(4,5,16)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,13),(7,9,29),(11,14,46),(6,8,25)); lvl=4; h,r-ind=1,1
          [3,3]((10,13,42),(7,9,29),(11,14,46)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,13),(10,13,42),(11,14,46)); lvl=5; h,r-ind=1,1
          [3,3]((10,13,42),(6,8,25),(7,9,29)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,13),(10,13,42),(6,8,25)); lvl=5; h,r-ind=1,1
        [4,3]((4,5,17),(12,15,50),(3,4,13),(11,14,46)); lvl=4; h,r-ind=1,1
```

```
          [3,3]((15,19,63),(11,14,46),(12,15,50)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,17),(15,19,63),(12,15,50)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,13),(15,19,63),(11,14,46)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,17),(3,4,13),(15,19,63)); lvl=5; h,r-ind=1,1
        [3,3]((8,10,35),(4,5,17),(3,4,13)); lvl=4; h,r-ind=1,1
        [4,3]((4,5,17),(1,1,4),(9,11,37),(12,15,50)); lvl=4; h,r-ind=1,1
          [3,3]((13,16,54),(9,11,37),(1,1,4)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,17),(13,16,54),(1,1,4)); lvl=5; h,r-ind=1,1
          [3,3]((12,15,50),(13,16,54),(9,11,37)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,17),(12,15,50),(13,16,54)); lvl=5; h,r-ind=1,1
        [3,3]((8,10,35),(4,5,17),(1,1,4)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,3),(6,7,23),(3,4,11),(6,8,25)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,1,3),(9,11,34),(3,4,12),(3,4,11)); lvl=4; h,r-ind=1,3
          [3,3]((4,5,15),(9,11,34),(3,4,12)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,11),(4,5,15),(3,4,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(3,4,11),(4,5,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(4,5,15),(9,11,34)); lvl=5; h,r-ind=1,1
        [3,3]((9,11,34),(4,5,16),(3,4,12)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((4,5,16),(6,8,25),(3,4,12)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,3),(9,11,34),(4,5,16),(6,7,23)); lvl=4; h,r-ind=1,3
          [3,3]((9,11,34),(5,6,19),(4,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,23),(5,6,19),(4,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(6,7,23),(5,6,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(9,11,34),(5,6,19)); lvl=5; h,r-ind=1,1
      [4,3]((6,8,27),(4,5,18),(8,10,35),(3,4,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,5,18),(8,10,35),(7,9,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,13),(8,10,35),(7,9,31)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,27),(4,5,18),(7,9,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,13),(6,8,27),(7,9,31)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,18),(8,10,35),(1,1,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,4),(6,7,23)); lvl=3; h,r-ind=1,1
    [3,3]((6,8,21),(3,4,11),(1,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,17),(6,8,27),(4,5,22),(4,5,18)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,14),(3,4,15),(4,5,18),(4,5,20)); lvl=3; h,r-ind=1,1
        [4,3]((10,13,48),(3,4,15),(4,5,19),(4,5,20)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((7,9,34),(4,5,19),(4,5,20)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,15),(7,9,34),(4,5,20)); lvl=5; h,r-ind=1,1
          [3,3]((10,13,48),(7,9,34),(4,5,19)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,15),(10,13,48),(7,9,34)); lvl=5; h,r-ind=1,1
        [4,3]((3,4,14),(10,13,48),(4,5,18),(4,5,19)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,5,18),(7,9,33),(4,5,19)); lvl=5; h,r-ind=1,1
          [3,3]((10,13,48),(7,9,33),(4,5,19)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,14),(4,5,18),(7,9,33)); lvl=5; h,r-ind=1,1
          [3,3]((10,13,48),(3,4,14),(7,9,33)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,14),(10,13,48),(3,4,15)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,17),(3,4,15),(4,5,22),(4,5,20)); lvl=3; h,r-ind=2,1; alert-h-inc
        [4,3]((3,4,16),(3,4,15),(4,5,21),(4,5,20)); lvl=4; h,r-ind=1,1
          [3,3]((7,9,36),(4,5,20),(4,5,21)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,16),(7,9,36),(4,5,21)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,15),(7,9,36),(4,5,20)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,16),(3,4,15),(7,9,36)); lvl=5; h,r-ind=1,1
        [4,3]((3,4,16),(3,4,17),(4,5,22),(4,5,21)); lvl=4; h,r-ind=1,1
          [3,3]((7,9,38),(4,5,22),(3,4,17)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,16),(7,9,38),(3,4,17)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,21),(3,4,16),(7,9,38)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,21),(7,9,38),(4,5,22)); lvl=5; h,r-ind=1,1
      [3,3]((6,8,27),(3,4,14),(4,5,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,17),(4,5,22),(4,5,23)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(6,8,21),(1,1,3)); lvl=1; h,r-ind=3,3
    [3,3]((3,4,9),(2,3,7),(1,2,3)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((0,1,0),(2,3,7),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,8),(2,3,5),(3,4,9),(1,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((7,10,19),(2,3,6),(1,2,3),(2,3,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,6,11),(2,3,6),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(4,6,11),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((7,10,19),(4,6,11),(2,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(7,10,19),(4,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,8),(7,10,19),(2,3,5)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,8),(7,10,19),(3,4,9),(2,3,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,14),(2,3,6),(7,10,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,8),(5,7,14),(7,10,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(5,7,14),(2,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,8),(3,4,9),(5,7,14)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(2,3,4),(2,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,2),(2,3,4),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,4),(3,5,7),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,10),(3,5,7),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,10),(1,2,2),(3,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,1
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      [4,3]((0,1,0),(1,2,3),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(4,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,3),(3,4,8),(1,1,2),(3,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,8),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(3,4,8),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,9),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,2),(4,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [5,3]((3,4,8),(2,3,4),(2,3,5),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,8),(1,1,2),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(2,3,4),(2,2,3)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((5,7,11),(6,8,13),(4,5,8),(2,3,4)); lvl=3; h,r-ind=1,1
        [4,3]((14,19,30),(3,4,6),(4,5,8),(6,8,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((9,12,19),(3,4,6),(4,5,8)); lvl=5; h,r-ind=1,1
          [3,3]((9,12,19),(6,8,13),(4,5,8)); lvl=5; h,r-ind=1,1
          [3,3]((14,19,30),(9,12,19),(6,8,13)); lvl=5; h,r-ind=1,1
          [3,3]((14,19,30),(9,12,19),(3,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,11),(14,19,30),(6,8,13)); lvl=4; h,r-ind=1,1
        [4,3]((5,7,11),(14,19,30),(3,4,6),(2,3,4)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((14,19,30),(8,11,17),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,4),(8,11,17),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,11),(2,3,4),(8,11,17)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,11),(14,19,30),(8,11,17)); lvl=5; h,r-ind=1,1
      [4,3]((3,4,7),(6,8,13),(4,5,8),(1,1,2)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,8),(6,8,13),(7,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,7),(6,8,13),(7,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(3,4,7),(7,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(4,5,8),(7,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,8),(3,4,7),(1,1,2)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,7),(5,7,11),(6,8,13),(2,3,5)); lvl=3; h,r-ind=1,1
        [3,3]((8,11,18),(5,7,11),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,7),(8,11,18),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(8,11,18),(5,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,7),(2,3,5),(8,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(2,3,4),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,8),(3,4,7),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(0,1,0),(2,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,3),(6,8,21),(3,4,9),(2,3,7)); lvl=2; h,r-ind=1,3
      [3,3]((3,4,10),(6,8,21),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(3,4,10),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,9),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,10),(6,8,21)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,5),(1,1,3)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(2,3,12),(3,4,17),(6,8,21)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,11),(2,3,12),(3,4,17)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,9),(6,8,27),(2,3,11),(3,4,17)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,11),(2,3,10),(3,4,17),(3,4,15)); lvl=3; h,r-ind=1,1
        [4,3]((7,10,37),(2,3,10),(3,4,16),(3,4,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,16),(3,4,15),(5,7,26)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,10),(3,4,15),(5,7,26)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,37),(2,3,10),(5,7,26)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,37),(3,4,16),(5,7,26)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,11),(7,10,37),(3,4,17),(3,4,16)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,17),(5,7,27),(3,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,37),(5,7,27),(3,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,11),(7,10,37),(5,7,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,11),(3,4,17),(5,7,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,11),(7,10,37),(2,3,10)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,9),(2,3,10),(3,4,14),(3,4,15)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,24),(3,4,15),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(5,7,24),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(5,7,24),(3,4,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(2,3,10),(5,7,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(6,8,27),(3,4,14)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,8),(3,5,12),(2,3,9),(6,10,27)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,9),(3,5,13),(6,10,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(7,11,30),(3,5,13)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,8),(7,11,30),(3,5,12),(3,5,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,12),(5,8,21),(3,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((7,11,30),(5,8,21),(3,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(7,11,30),(5,8,21)); lvl=4; h,r-ind=1,1
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      [3,3]((2,3,8),(3,5,12),(5,8,21)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,8),(2,3,9),(7,11,30)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(3,5,12),(6,10,27)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((3,4,11),(2,3,8),(2,3,7),(3,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,15),(2,3,8),(3,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(4,6,15),(3,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,11),(2,3,7),(4,6,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,11),(4,6,15),(2,3,8)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,7),(3,5,12)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((3,4,11),(2,3,8),(2,3,9),(6,8,27)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(9,13,38),(2,3,9)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,13),(6,8,25),(9,13,38),(2,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(5,7,21),(10,14,43)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(3,4,13),(10,14,43)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,13),(6,8,25),(5,7,21),(10,14,43)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((6,8,25),(8,11,34),(5,7,21)); lvl=5; h,r-ind=1,1
        [3,3]((10,14,43),(8,11,34),(5,7,21)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,13),(10,14,43),(8,11,34)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,13),(6,8,25),(8,11,34)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,9),(5,7,21),(9,13,38)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,13),(6,8,27),(2,3,9)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,11),(6,8,25),(2,3,8),(9,13,38)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((2,3,8),(9,13,38),(12,17,49),(5,7,21)); lvl=4; h,r-ind=1,3
        [3,3]((5,7,21),(9,13,38),(7,10,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,8),(9,13,38),(7,10,29)); lvl=5; h,r-ind=1,1
        [3,3]((12,17,49),(5,7,21),(7,10,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,8),(12,17,49),(7,10,29)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,12),(12,17,49),(5,7,21)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((3,4,12),(6,8,25),(5,7,21)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,8),(3,4,12),(3,4,11),(12,17,49)); lvl=4; h,r-ind=1,3
        [3,3]((3,4,11),(5,7,20),(3,4,12)); lvl=5; h,r-ind=1,1
        [3,3]((12,17,49),(5,7,20),(3,4,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,8),(12,17,49),(5,7,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,8),(3,4,11),(5,7,20)); lvl=5; h,r-ind=1,1
  [3,3]((3,4,11),(6,8,21),(2,3,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,6),(3,5,16),(2,3,11),(2,3,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,17),(3,5,16),(2,3,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,12),(3,5,17),(2,3,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(2,3,12),(3,5,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(3,5,17),(3,5,16)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,9),(6,10,27),(3,5,16),(2,3,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,11),(2,3,10),(6,10,29),(3,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(3,5,15),(6,10,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(7,11,36),(3,5,15)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,11),(3,5,16),(7,11,36),(3,5,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,8,26),(3,5,16),(3,5,15)); lvl=5; h,r-ind=1,1
        [3,3]((7,11,36),(5,8,26),(3,5,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,11),(7,11,36),(5,8,26)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,11),(5,8,26),(3,5,16)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,11),(2,3,10),(7,11,36)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,9),(2,3,10),(3,5,14),(6,10,29)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,24),(3,5,14),(6,10,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(5,8,24),(6,10,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(2,3,10),(5,8,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(5,8,24),(3,5,14)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,9),(6,10,27),(3,5,14)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,6),(6,10,27),(3,5,16)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(6,10,29),(3,5,16)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,6),(1,2,5),(3,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,6),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,14),(1,2,5),(6,10,29)); lvl=3; h,r-ind=1,1
    [4,3]((6,10,27),(3,5,14),(6,11,27),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((8,14,37),(1,2,5),(3,5,14)); lvl=4; h,r-ind=1,1
      [4,3]((6,10,27),(8,14,37),(4,7,18),(3,5,14)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,12,32),(8,14,37),(4,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((6,10,27),(7,12,32),(4,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,14),(6,10,27),(7,12,32)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,14),(7,12,32),(8,14,37)); lvl=5; h,r-ind=1,1
      [3,3]((8,14,37),(4,7,18),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,18),(6,11,27),(1,2,5)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(6,11,27),(1,2,5)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[6,3]((2,3,13),(2,3,12),(3,4,17),(4,5,23),(3,4,19),(4,5,24)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,17),(2,3,12),(3,4,18)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,13),(2,3,12),(3,4,18)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,13),(3,4,19),(3,4,18)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,23),(3,4,17),(3,4,18)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,24),(4,5,23),(3,4,18)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,19),(4,5,24),(3,4,18)); lvl=2; h,r-ind=1,1
[4,3]((3,4,21),(9,11,54),(3,4,19),(4,5,24)); lvl=1; h,r-ind=1,1
  [4,3]((4,5,25),(15,19,93),(9,11,54),(4,5,24)); lvl=2; h,r-ind=1,3; alert-r-inc
```

```
      [3,3]((8,10,49),(4,5,24),(15,19,93)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,25),(8,10,49),(15,19,93)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,54),(8,10,49),(4,5,24)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,25),(9,11,54),(8,10,49)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,19),(7,9,44),(15,19,93),(4,5,24)); lvl=2; h,r-ind=1,1
      [3,3]((7,9,44),(15,19,93),(11,14,68)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,24),(15,19,93),(11,14,68)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,19),(7,9,44),(11,14,68)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,24),(3,4,19),(11,14,68)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,20),(3,4,19),(7,9,44)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,25),(3,4,20),(7,9,44),(15,19,93)); lvl=2; h,r-ind=1,1
      [3,3]((11,14,69),(3,4,20),(7,9,44)); lvl=3; h,r-ind=1,1
      [3,3]((15,19,93),(11,14,69),(7,9,44)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,25),(15,19,93),(11,14,69)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,25),(11,14,69),(3,4,20)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,21),(4,5,25),(3,4,20)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,21),(3,5,21),(2,3,13),(3,4,19)); lvl=1; h,r-ind=1,1
    [4,3]((9,13,60),(3,5,21),(2,3,14),(2,3,13)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,3,14),(4,6,27),(3,5,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(4,6,27),(3,5,21)); lvl=3; h,r-ind=1,1
      [3,3]((9,13,60),(2,3,13),(4,6,27)); lvl=3; h,r-ind=1,1
      [3,3]((9,13,60),(2,3,14),(4,6,27)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,19),(5,7,33),(9,13,60),(2,3,13)); lvl=2; h,r-ind=1,1
      [3,3]((7,10,46),(5,7,33),(9,13,60)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(7,10,46),(9,13,60)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,19),(7,10,46),(5,7,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(3,4,19),(7,10,46)); lvl=3; h,r-ind=1,1
    [4,3]((5,7,33),(9,13,60),(3,4,20),(2,3,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,14),(9,13,60),(7,10,47)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,33),(9,13,60),(7,10,47)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,33),(3,4,20),(7,10,47)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,20),(2,3,14),(7,10,47)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,21),(3,4,20),(2,3,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,19),(5,7,33),(3,4,20)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(3,5,21),(2,3,13),(2,3,12)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,12),(6,10,39),(3,5,19),(2,3,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,19),(6,10,39),(5,8,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(6,10,39),(5,8,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,12),(3,5,19),(5,8,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(2,3,12),(5,8,32)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,7),(3,5,21),(6,10,39),(2,3,13)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,5,20),(3,5,21),(2,3,13)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,39),(3,5,20),(2,3,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(6,10,39),(3,5,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(3,5,20),(3,5,21)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,6),(1,2,7),(6,10,39),(3,5,19)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,7),(4,7,26),(6,10,39)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,19),(4,7,26),(6,10,39)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(3,5,19),(4,7,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(1,2,7),(4,7,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,12),(1,2,6),(3,5,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(0,1,0),(1,2,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,5),(4,5,23),(9,11,54),(4,5,24)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,23),(5,6,29),(4,5,24)); lvl=2; h,r-ind=1,1
    [3,3]((9,11,54),(5,6,29),(4,5,24)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,5),(9,11,54),(5,6,29)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,5),(4,5,23),(5,6,29)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,21),(1,1,5),(9,11,54)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(3,4,21),(1,1,5)); lvl=1; h,r-ind=1,1
```

21.37 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,5,21)); lvl=0; h,r-ind=21,147
  [5,3]((6,10,21),(3,5,16),(1,1,4),(2,2,5),(2,3,11)); lvl=1; h,r-ind=1,1
    [4,3]((3,5,13),(4,6,17),(2,3,10),(3,5,16)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((3,5,16),(6,10,29),(2,3,10),(2,3,9)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,9),(2,3,10),(7,11,34)); lvl=4; h,r-ind=1,1
        [4,3]((3,5,16),(3,5,15),(2,3,10),(7,11,34)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,8,25),(3,5,15),(7,11,34)); lvl=5; h,r-ind=1,1
          [3,3]((5,8,25),(2,3,10),(7,11,34)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,16),(5,8,25),(2,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,16),(5,8,25),(3,5,15)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,15),(2,3,9),(7,11,34)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,29),(3,5,15),(2,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,13),(6,10,29),(2,3,9)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((3,5,13),(4,6,17),(2,3,9)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,13),(3,5,11),(4,6,17),(2,3,7)); lvl=2; h,r-ind=1,1
```

```
      [4,3]((3,5,11),(3,5,12),(2,3,7),(2,3,8)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,7),(2,3,8),(5,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,12),(2,3,8),(5,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,11),(2,3,7),(5,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,12),(3,5,11),(5,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,13),(3,5,12),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(4,6,17),(2,3,8)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,11),(6,10,21),(2,3,7),(4,6,13)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,7),(10,16,35),(5,8,17),(4,6,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((10,16,35),(7,11,24),(5,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,13),(7,11,24),(5,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(4,6,13),(7,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(10,16,35),(7,11,24)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,11),(2,3,7),(10,16,35)); lvl=3; h,r-ind=1,1
      [4,3]((6,10,21),(3,5,11),(10,16,35),(5,8,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,11),(8,13,28),(10,16,35)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,17),(8,13,28),(10,16,35)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,21),(5,8,17),(8,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,21),(3,5,11),(8,13,28)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,7),(1,1,3),(2,2,5),(4,6,13)); lvl=2; h,r-ind=1,1
      [4,3]((6,8,19),(3,4,9),(2,2,5),(1,1,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,9),(2,2,5),(4,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(2,2,5),(4,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,19),(3,4,9),(4,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(6,8,19),(4,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(6,8,19),(1,1,3)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,7),(6,8,19),(4,6,13),(3,4,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,9),(6,8,19),(5,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(6,8,19),(5,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,13),(3,4,9),(5,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(4,6,13),(5,7,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,10),(2,3,11),(3,5,16)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,17),(2,3,10),(1,1,3),(1,1,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,4),(4,5,16)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,10),(2,3,9),(1,1,4),(4,5,16)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,9),(4,5,16),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(4,5,16),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(2,3,9),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(2,3,10),(3,4,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(1,1,3),(4,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,17),(2,3,9),(1,1,3)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,17),(2,3,7),(1,1,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,3,10),(2,3,11),(1,1,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,6),(1,2,7)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(6,10,21),(1,2,6),(3,5,16)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,5),(3,5,13),(2,4,9),(3,5,16)); lvl=2; h,r-ind=1,1
      [3,3]((6,11,28),(3,5,13),(2,4,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,5),(6,11,28),(2,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,29),(6,11,28),(3,5,13)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,2,5),(3,5,16),(6,10,29),(6,11,28)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((4,7,19),(3,5,15),(6,10,29)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,19),(9,16,44),(3,5,15)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,5),(3,5,16),(9,16,44),(3,5,15)); lvl=4; h,r-ind=1,3
          [3,3]((3,5,16),(4,7,20),(3,5,15)); lvl=5; h,r-ind=1,1
          [3,3]((9,16,44),(4,7,20),(3,5,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(9,16,44),(4,7,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(3,5,16),(4,7,20)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,5),(6,11,28),(4,7,19),(9,16,44)); lvl=4; h,r-ind=1,3
          [3,3]((5,9,24),(6,11,28),(4,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((9,16,44),(5,9,24),(4,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(9,16,44),(5,9,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(5,9,24),(6,11,28)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,6),(1,2,5),(3,5,16)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,5),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(0,1,0),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,11),(3,5,13),(1,2,4),(2,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((5,9,21),(2,4,9),(1,2,4)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,11),(3,5,12),(5,9,21),(1,2,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,7,16),(5,9,21),(3,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,11),(4,7,16),(3,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(3,5,11),(4,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(4,7,16),(5,9,21)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,21),(3,5,13),(2,4,9)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((3,5,12),(5,9,21),(3,5,13)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,2,4),(2,4,9)); lvl=2; h,r-ind=1,1
    [4,3]((6,10,21),(6,11,21),(3,5,11),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,14),(6,11,21),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,14),(8,14,29),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(8,14,29),(1,2,4)); lvl=3; h,r-ind=1,1
      [4,3]((6,10,21),(4,7,14),(3,5,11),(8,14,29)); lvl=3; h,r-ind=1,2; alert-r-inc
```

```
      [3,3]((4,7,14),(7,12,25),(8,14,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,11),(7,12,25),(8,14,29)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,21),(3,5,11),(7,12,25)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,21),(4,7,14),(7,12,25)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(6,11,21),(1,2,4)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,1,4),(2,3,12),(2,3,11)); lvl=1; h,r-ind=1,1
[5,3]((1,2,6),(3,5,16),(1,2,7),(2,3,12),(2,3,11)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,6),(3,5,17),(4,7,24),(6,10,35)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,17),(6,10,35),(7,12,41)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,24),(6,10,35),(7,12,41)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(4,7,24),(7,12,41)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(3,5,17),(7,12,41)); lvl=3; h,r-ind=1,1
  [5,3]((1,2,7),(5,8,29),(2,3,12),(4,7,24),(6,10,35)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,12),(5,8,29),(3,5,18)); lvl=3; h,r-ind=1,1
    [3,3]((6,10,35),(5,8,29),(3,5,18)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,24),(6,10,35),(3,5,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,7),(4,7,24),(3,5,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,7),(2,3,12),(3,5,18)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,11),(5,8,29),(2,3,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,6),(1,2,7),(4,7,24)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,11),(5,8,29),(3,5,17),(6,10,35)); lvl=2; h,r-ind=1,1
    [3,3]((8,13,46),(6,10,35),(3,5,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,11),(8,13,46),(3,5,17)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,29),(8,13,46),(6,10,35)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,11),(5,8,29),(8,13,46)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,6),(3,5,16),(3,5,17)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,11),(3,5,16),(3,5,17)); lvl=2; h,r-ind=1,1
[3,3]((3,5,21),(1,2,7),(2,3,12)); lvl=1; h,r-ind=2,4; optimized-h
[3,3]((3,5,21),(1,1,4),(2,3,12)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(1,1,4),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
[4,3]((0,1,0),(6,10,21),(1,0,0),(2,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,2),(2,3,6),(2,2,5),(4,6,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,6),(6,8,17),(4,6,13),(3,4,9)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((6,8,17),(5,7,15),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,13),(5,7,15),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(4,6,13),(5,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(6,8,17),(5,7,15)); lvl=4; h,r-ind=1,1
    [4,3]((2,2,5),(1,1,2),(6,8,17),(3,4,9)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,11),(1,1,2),(6,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(4,5,11),(6,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,5),(3,4,9),(4,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,5),(4,5,11),(1,1,2)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(6,8,17)); lvl=3; h,r-ind=1,1
  [5,3]((3,5,9),(2,3,6),(6,10,21),(6,11,21),(4,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,13),(3,5,10),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,9),(3,5,10),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,9),(9,16,30),(3,5,10)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((5,8,17),(4,6,13),(3,5,10)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,14),(6,10,21),(5,8,17),(3,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((9,15,31),(5,8,17),(6,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,14),(9,15,31),(6,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,10),(4,7,14),(9,15,31)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,10),(9,15,31),(5,8,17)); lvl=4; h,r-ind=1,1
    [4,3]((9,16,30),(6,11,21),(4,7,14),(3,5,10)); lvl=3; h,r-ind=1,1
      [4,3]((5,9,17),(6,11,21),(4,7,14),(12,21,41)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((9,16,31),(4,7,14),(6,11,21)); lvl=5; h,r-ind=1,1
        [3,3]((5,9,17),(9,16,31),(6,11,21)); lvl=5; h,r-ind=1,1
        [3,3]((12,21,41),(9,16,31),(4,7,14)); lvl=5; h,r-ind=1,1
        [3,3]((5,9,17),(12,21,41),(9,16,31)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,10),(4,7,14),(12,21,41)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,10),(5,9,17),(12,21,41)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,10),(9,16,30),(5,9,17)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(3,5,9),(6,11,21)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,1,2),(3,5,9),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(3,5,9),(4,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(3,5,9),(4,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(4,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(1,1,2),(4,6,11)); lvl=3; h,r-ind=1,1
  [4,3]((2,2,3),(1,2,2),(1,1,2),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(1,2,2),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,4),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(1,2,2)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,2,3),(1,2,2)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((1,1,1),(2,2,3),(1,0,0)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,2),(3,5,9),(2,3,5)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((1,2,2),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(1,2,3),(2,3,5)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,2,3),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(4,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,21),(1,0,0),(1,1,4)); lvl=1; h,r-ind=1,1
```

21.38 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,7,21)); lvl=0; h,r-ind=21,21
  [5,3]((1,0,0),(6,14,21),(3,7,14),(1,2,5),(2,3,9)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,5),(1,2,4),(3,5,12),(3,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,12),(3,5,11),(4,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,11),(4,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(4,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(3,5,12),(4,7,16)); lvl=3; h,r-ind=1,1
    [5,3]((1,1,3),(2,3,6),(2,3,8),(3,5,12),(3,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,8),(2,3,7),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(2,3,7),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,5,11),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,8),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(1,1,3),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(2,3,6)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,3),(2,3,8),(2,3,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,6),(3,6,11),(1,2,4),(3,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,10),(3,6,11),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(3,5,10),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,5,11),(3,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,5,10),(3,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,3),(3,6,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(2,3,6),(1,2,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((3,7,14),(3,7,12),(3,6,11),(5,11,19),(1,2,4)); lvl=2; h,r-ind=1,1
      [5,3]((8,17,31),(9,20,35),(12,26,47),(5,11,19),(3,6,11)); lvl=3; h,r-ind=1,1
        [3,3]((7,15,27),(8,17,31),(12,26,47)); lvl=4; h,r-ind=1,1
        [4,3]((21,46,82),(7,15,27),(13,28,50),(12,26,47)); lvl=4; h,r-ind=1,1
          [4,3]((13,28,50),(24,52,93),(42,91,163),(7,15,27)); lvl=5; h,r-ind=1,1
            [3,3]((31,67,120),(24,52,93),(42,91,163)); lvl=6; h,r-ind=1,1
            [3,3]((7,15,27),(31,67,120),(42,91,163)); lvl=6; h,r-ind=1,1
            [3,3]((13,28,50),(31,67,120),(24,52,93)); lvl=6; h,r-ind=1,1
            [3,3]((7,15,27),(13,28,50),(31,67,120)); lvl=6; h,r-ind=1,1
          [4,3]((12,26,47),(11,24,43),(42,91,163),(7,15,27)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((11,24,43),(18,39,70),(42,91,163)); lvl=6; h,r-ind=1,1
            [3,3]((7,15,27),(18,39,70),(42,91,163)); lvl=6; h,r-ind=1,1
            [3,3]((12,26,47),(7,15,27),(18,39,70)); lvl=6; h,r-ind=1,1
            [3,3]((12,26,47),(11,24,43),(18,39,70)); lvl=6; h,r-ind=1,1
          [3,3]((17,37,66),(13,28,50),(24,52,93)); lvl=5; h,r-ind=1,1
          [4,3]((11,24,43),(17,37,66),(24,52,93),(42,91,163)); lvl=5; h,r-ind=1,1
            [3,3]((35,76,136),(17,37,66),(24,52,93)); lvl=6; h,r-ind=1,1
            [3,3]((42,91,163),(35,76,136),(24,52,93)); lvl=6; h,r-ind=1,1
            [3,3]((11,24,43),(42,91,163),(35,76,136)); lvl=6; h,r-ind=1,1
            [3,3]((11,24,43),(35,76,136),(17,37,66)); lvl=6; h,r-ind=1,1
          [3,3]((21,46,82),(11,24,43),(17,37,66)); lvl=5; h,r-ind=1,1
        [4,3]((21,46,82),(9,20,35),(13,28,50),(6,13,23)); lvl=4; h,r-ind=1,1
          [4,3]((10,22,39),(39,85,151),(6,13,23),(9,20,35)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((16,35,62),(39,85,151),(6,13,23)); lvl=6; h,r-ind=1,1
            [3,3]((9,20,35),(16,35,62),(6,13,23)); lvl=6; h,r-ind=1,1
            [3,3]((10,22,39),(9,20,35),(16,35,62)); lvl=6; h,r-ind=1,1
            [3,3]((10,22,39),(16,35,62),(39,85,151)); lvl=6; h,r-ind=1,1
          [4,3]((23,50,89),(39,85,151),(13,28,50),(6,13,23)); lvl=5; h,r-ind=1,1
            [3,3]((6,13,23),(39,85,151),(29,63,112)); lvl=6; h,r-ind=1,1
            [3,3]((23,50,89),(39,85,151),(29,63,112)); lvl=6; h,r-ind=1,1
            [3,3]((23,50,89),(13,28,50),(29,63,112)); lvl=6; h,r-ind=1,1
            [3,3]((13,28,50),(6,13,23),(29,63,112)); lvl=6; h,r-ind=1,1
          [3,3]((17,37,66),(23,50,89),(13,28,50)); lvl=5; h,r-ind=1,1
          [4,3]((10,22,39),(17,37,66),(23,50,89),(39,85,151)); lvl=5; h,r-ind=1,1
            [3,3]((23,50,89),(33,72,128),(17,37,66)); lvl=6; h,r-ind=1,1
            [3,3]((10,22,39),(33,72,128),(17,37,66)); lvl=6; h,r-ind=1,1
            [3,3]((39,85,151),(10,22,39),(33,72,128)); lvl=6; h,r-ind=1,1
            [3,3]((39,85,151),(23,50,89),(33,72,128)); lvl=6; h,r-ind=1,1
          [3,3]((10,22,39),(21,46,82),(17,37,66)); lvl=5; h,r-ind=1,1
        [3,3]((9,20,35),(5,11,19),(6,13,23)); lvl=4; h,r-ind=1,1
        [3,3]((7,15,27),(3,6,11),(8,17,31)); lvl=4; h,r-ind=1,1
        [3,3]((7,15,27),(13,28,50),(3,6,11)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((13,28,50),(6,13,23),(3,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,19),(6,13,23),(3,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(8,17,31),(3,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(9,20,35),(5,11,19)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,12),(9,20,35),(12,26,47),(5,11,20)); lvl=3; h,r-ind=1,1
        [4,3]((4,9,16),(3,7,12),(9,20,35),(21,46,82)); lvl=4; h,r-ind=1,1
          [4,3]((10,22,39),(3,7,12),(17,38,67),(9,20,35)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((13,29,51),(3,7,12),(17,38,67)); lvl=6; h,r-ind=1,1
            [3,3]((10,22,39),(13,29,51),(17,38,67)); lvl=6; h,r-ind=1,1
            [3,3]((9,20,35),(13,29,51),(3,7,12)); lvl=6; h,r-ind=1,1
            [3,3]((10,22,39),(9,20,35),(13,29,51)); lvl=6; h,r-ind=1,1
          [3,3]((4,9,16),(10,22,39),(17,38,67)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,16),(10,22,39),(21,46,82)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,16),(3,7,12),(17,38,67)); lvl=5; h,r-ind=1,1
        [4,3]((5,11,20),(4,9,16),(12,26,47),(21,46,82)); lvl=4; h,r-ind=1,1
          [3,3]((4,9,16),(11,24,43),(21,46,82)); lvl=5; h,r-ind=1,1
          [3,3]((20,44,79),(4,9,16),(11,24,43)); lvl=5; h,r-ind=1,1
          [4,3]((5,11,20),(12,26,47),(20,44,79),(11,24,43)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((11,24,43),(16,35,63),(12,26,47)); lvl=6; h,r-ind=1,1
            [3,3]((5,11,20),(16,35,63),(12,26,47)); lvl=6; h,r-ind=1,1
            [3,3]((20,44,79),(5,11,20),(16,35,63)); lvl=6; h,r-ind=1,1
            [3,3]((20,44,79),(11,24,43),(16,35,63)); lvl=6; h,r-ind=1,1
          [3,3]((5,11,20),(20,44,79),(4,9,16)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,12),(3,7,13),(5,11,20)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,2,4),(8,17,31),(12,26,47),(5,11,20)); lvl=3; h,r-ind=1,1
        [3,3]((8,17,31),(12,26,47),(13,28,51)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,20),(12,26,47),(13,28,51)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(5,11,20),(13,28,51)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(8,17,31),(13,28,51)); lvl=4; h,r-ind=1,1
      [4,3]((3,7,13),(3,7,14),(1,2,4),(5,11,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,9,17),(1,2,4),(3,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,13),(4,9,17),(3,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,17),(5,11,20),(1,2,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,13),(4,9,17),(5,11,20)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,11),(3,7,12),(5,11,19)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((3,7,11),(1,2,3),(3,6,11),(5,11,19)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((5,11,19),(4,9,15),(3,6,11),(2,4,7)); lvl=3; h,r-ind=1,1
        [3,3]((7,15,26),(2,4,7),(3,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,19),(7,15,26),(3,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,15),(7,15,26),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,19),(4,9,15),(7,15,26)); lvl=4; h,r-ind=1,1
      [4,3]((3,7,11),(4,9,15),(1,2,3),(2,4,7)); lvl=3; h,r-ind=1,1
        [3,3]((5,11,18),(2,4,7),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,11),(5,11,18),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,15),(5,11,18),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,11),(4,9,15),(5,11,18)); lvl=4; h,r-ind=1,1
    [3,3]((6,14,21),(3,7,11),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,8),(2,3,9),(1,2,5),(3,5,12)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,9),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(2,3,9),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(3,5,12),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,12),(1,2,5),(3,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,14),(1,2,5),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,6),(1,2,5),(2,3,9)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,5,10),(6,14,21),(3,7,14)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,9),(3,8,13),(2,5,8),(3,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,12),(3,8,13),(5,13,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(3,8,13),(5,13,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(2,5,9),(5,13,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(3,8,12),(5,13,21)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,7),(3,7,11),(2,5,8),(3,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,10,15),(3,7,11),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,12),(4,10,15),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(3,8,12),(4,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(4,10,15),(3,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,7),(3,8,12)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,5,7),(6,14,21),(3,7,11)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,5),(3,8,13),(3,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(5,14,22),(3,8,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(3,8,12),(5,14,22),(3,8,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,12),(4,11,17),(3,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,14,22),(4,11,17),(3,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,12),(4,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,14,22),(1,3,4),(4,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,5),(5,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,4),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,10),(2,5,9),(1,3,5),(3,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,14),(3,8,13),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(3,8,14),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,14),(1,3,5),(3,8,13)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,5,10),(3,8,14),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,9),(2,5,8),(3,7,12),(3,7,14)); lvl=2; h,r-ind=1,1
      [4,3]((7,17,30),(3,7,13),(2,5,8),(3,7,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,13),(3,7,12),(5,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(3,7,12),(5,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,30),(2,5,8),(5,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,30),(3,7,13),(5,12,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,9),(7,17,30),(2,5,8)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,9),(7,17,30),(3,7,14),(3,7,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,13),(5,12,22),(3,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(5,12,22),(3,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,30),(2,5,9),(5,12,22)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,30),(3,7,13),(5,12,22)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,11),(2,5,8),(3,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,10),(2,5,9),(3,7,14)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(6,14,21)); lvl=1; h,r-ind=21,21
    [3,3]((1,2,3),(1,0,0),(1,2,2)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((2,5,6),(0,1,0),(1,2,2)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,2,3),(2,5,6),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,6),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((6,14,21),(1,2,3),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(0,1,0),(2,5,7)); lvl=2; h,r-ind=2,2; optimized-h
  [5,3]((1,2,6),(2,5,13),(2,5,10),(3,7,14),(1,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,5),(3,7,15),(3,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,10),(3,7,15),(3,7,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(6,13,33),(3,7,15),(6,14,33)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,7,16),(4,9,22),(9,20,48)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,5),(6,13,33),(4,9,22),(9,20,48)); lvl=3; h,r-ind=1,3
        [3,3]((5,11,27),(6,13,33),(4,9,22)); lvl=4; h,r-ind=1,1
        [3,3]((9,20,48),(5,11,27),(4,9,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(9,20,48),(5,11,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(5,11,27),(6,13,33)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,5),(3,7,16),(3,7,15),(9,20,48)); lvl=3; h,r-ind=1,3
        [3,3]((4,9,21),(3,7,16),(3,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(4,9,21),(3,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((9,20,48),(4,9,21),(3,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(9,20,48),(4,9,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,16),(6,14,33),(4,9,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(1,2,5),(6,13,33)); lvl=2; h,r-ind=1,1
    [5,3]((2,5,13),(1,2,6),(4,10,23),(6,13,33),(6,14,33)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,22),(3,7,17),(4,9,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(3,7,17),(4,9,23)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,6),(4,9,22),(6,13,33),(4,9,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,11,28),(4,9,22),(6,13,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(5,11,28),(6,13,33)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,23),(5,11,28),(4,9,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(4,9,23),(5,11,28)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,12),(2,5,13),(1,2,6),(4,9,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,13),(3,7,18),(1,2,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,23),(3,7,18),(1,2,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(4,9,23),(3,7,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(2,5,13),(3,7,18)); lvl=4; h,r-ind=1,1
      [4,3]((6,14,33),(5,12,28),(4,9,22),(3,7,17)); lvl=3; h,r-ind=1,1
        [3,3]((9,21,50),(3,7,17),(5,12,28)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,33),(9,21,50),(5,12,28)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,22),(6,14,33),(9,21,50)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,22),(9,21,50),(3,7,17)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,12),(4,10,23),(5,12,28),(3,7,17)); lvl=3; h,r-ind=1,1
        [3,3]((7,17,40),(5,12,28),(4,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(7,17,40),(4,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,17),(2,5,12),(7,17,40)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,17),(7,17,40),(5,12,28)); lvl=4; h,r-ind=1,1
    [4,3]((4,10,23),(2,5,10),(3,7,15),(6,14,33)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((2,5,11),(2,5,10),(3,7,16),(3,7,15)); lvl=3; h,r-ind=1,1
        [3,3]((5,12,26),(3,7,15),(3,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(5,12,26),(3,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(5,12,26),(3,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(2,5,10),(5,12,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(5,12,28),(3,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,28),(6,14,33),(3,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,23),(2,5,11),(5,12,28)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(2,5,13),(3,8,21),(2,5,10)); lvl=1; h,r-ind=3,1
    [4,3]((3,8,19),(3,8,18),(4,10,23),(2,5,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,12),(4,10,23),(3,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((8,21,49),(2,5,12),(3,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,19),(8,21,49),(3,8,18)); lvl=3; h,r-ind=1,1
      [4,3]((3,8,19),(8,21,49),(2,5,12),(2,5,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,12),(8,21,49),(5,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,19),(8,21,49),(5,13,31)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,5,13),(2,5,12),(5,13,31)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,19),(2,5,13),(5,13,31)); lvl=4; h,r-ind=1,1
  [4,3]((3,8,21),(1,3,7),(3,8,19),(2,5,13)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((1,3,7),(3,8,19),(3,8,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,13),(3,8,19),(3,8,20)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,21),(1,3,7),(3,8,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,13),(3,8,21),(3,8,20)); lvl=3; h,r-ind=1,1
  [5,3]((1,3,5),(2,5,10),(3,8,18),(1,3,6),(4,10,23)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(2,5,11),(4,11,22),(2,5,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,11,22),(3,8,16),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(3,8,16),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(4,11,22),(3,8,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(1,3,5),(3,8,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,6),(4,11,22)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,6),(2,5,11),(4,11,22),(6,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,17),(2,5,11),(4,11,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(3,8,17),(4,11,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(6,16,35),(3,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((6,16,35),(3,8,17),(2,5,11)); lvl=4; h,r-ind=1,1
    [4,3]((3,8,18),(2,5,11),(6,16,35),(4,10,23)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((6,16,35),(5,13,29),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,23),(5,13,29),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,18),(6,16,35),(5,13,29)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,23),(3,8,18),(5,13,29)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(3,8,18),(6,16,35)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,5),(1,3,6)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,7),(3,8,19),(3,8,18),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,19),(3,8,18),(4,11,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(3,8,18),(4,11,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(1,3,6),(4,11,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(3,8,19),(4,11,25)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,7),(1,3,6)); lvl=2; h,r-ind=1,1
[4,3]((1,2,6),(3,7,21),(2,5,13),(3,8,21)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,6),(2,5,14),(3,7,21)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,6),(5,12,33),(2,5,14)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,13),(5,12,33),(3,8,21),(2,5,14)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((4,10,27),(2,5,14),(5,12,33)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,13),(4,10,27),(5,12,33)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,21),(4,10,27),(2,5,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,13),(3,8,21),(4,10,27)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,13),(1,2,6),(5,12,33)); lvl=2; h,r-ind=1,1
```

21.39 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,8,21)); lvl=0; h,r-ind=21,147
  [5,3]((3,7,17),(1,2,4),(3,7,14),(2,3,7),(1,2,5)); lvl=1; h,r-ind=1,1
    [4,3]((3,7,17),(5,11,25),(6,14,31),(4,9,20)); lvl=2; h,r-ind=1,1
      [4,3]((15,34,77),(8,18,41),(5,11,25),(4,9,20)); lvl=3; h,r-ind=1,1
        [3,3]((8,18,41),(5,11,25),(12,27,61)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,20),(5,11,25),(12,27,61)); lvl=4; h,r-ind=1,1
        [3,3]((15,34,77),(8,18,41),(12,27,61)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,20),(15,34,77),(12,27,61)); lvl=4; h,r-ind=1,1
      [4,3]((6,14,31),(3,7,16),(15,34,77),(4,9,20)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,7,16),(15,34,77),(7,16,36)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,20),(15,34,77),(7,16,36)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,31),(3,7,16),(7,16,36)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,20),(6,14,31),(7,16,36)); lvl=4; h,r-ind=1,1
      [4,3]((4,9,21),(3,7,16),(15,34,77),(8,18,41)); lvl=3; h,r-ind=1,1
        [3,3]((11,25,57),(3,7,16),(15,34,77)); lvl=4; h,r-ind=1,1
        [3,3]((11,25,57),(8,18,41),(15,34,77)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,21),(11,25,57),(8,18,41)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,21),(11,25,57),(3,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,17),(4,9,21),(3,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,21),(8,18,41),(5,11,25)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,14),(5,11,24),(6,14,31),(4,9,20)); lvl=2; h,r-ind=1,1
      [4,3]((15,34,74),(8,18,39),(5,11,24),(4,9,20)); lvl=3; h,r-ind=1,1
        [3,3]((12,27,59),(8,18,39),(5,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,20),(12,27,59),(5,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((15,34,74),(12,27,59),(8,18,39)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,20),(15,34,74),(12,27,59)); lvl=4; h,r-ind=1,1
      [4,3]((6,14,31),(3,7,15),(15,34,74),(4,9,20)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,7,15),(15,34,74),(7,16,35)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,20),(15,34,74),(7,16,35)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,31),(3,7,15),(7,16,35)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,20),(6,14,31),(7,16,35)); lvl=4; h,r-ind=1,1
      [4,3]((4,9,19),(3,7,15),(15,34,74),(8,18,39)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,15),(11,25,54),(15,34,74)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((8,18,39),(11,25,54),(15,34,74)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,19),(8,18,39),(11,25,54)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,19),(3,7,15),(11,25,54)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,19),(3,7,14),(3,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,19),(8,18,39),(5,11,24)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(7,15,33),(3,7,14),(5,11,24)); lvl=2; h,r-ind=1,1
      [3,3]((6,13,28),(7,15,33),(5,11,24)); lvl=3; h,r-ind=1,1
      [4,3]((4,9,19),(6,13,28),(11,24,51),(5,11,24)); lvl=3; h,r-ind=1,1
        [3,3]((10,22,47),(11,24,51),(6,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,24),(10,22,47),(6,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,19),(5,11,24),(10,22,47)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,19),(10,22,47),(11,24,51)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,4),(3,7,14),(4,9,19),(11,24,51)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,14),(5,11,23),(4,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((11,24,51),(5,11,23),(4,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(11,24,51),(5,11,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(3,7,14),(5,11,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(6,13,28),(11,24,51)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(6,13,28),(7,15,33)); lvl=3; h,r-ind=1,1
    [6,3]((7,15,33),(8,17,38),(7,15,34),(5,11,24),(5,11,25),(4,9,20)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,24),(6,13,29),(4,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,25),(6,13,29),(4,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,34),(5,11,25),(6,13,29)); lvl=3; h,r-ind=1,1
      [3,3]((8,17,38),(7,15,34),(6,13,29)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,33),(5,11,24),(6,13,29)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,33),(8,17,38),(6,13,29)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(2,4,9),(7,15,33),(8,17,38)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,9),(8,17,38),(9,19,42)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,33),(8,17,38),(9,19,42)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(7,15,33),(9,19,42)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,9),(9,19,42)); lvl=3; h,r-ind=1,1
    [4,3]((7,15,34),(1,2,5),(3,7,17),(5,11,25)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,5),(3,7,17),(4,9,21),(11,24,56)); lvl=3; h,r-ind=1,1
        [3,3]((5,11,26),(4,9,21),(3,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(5,11,26),(3,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((11,24,56),(5,11,26),(4,9,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(11,24,56),(5,11,26)); lvl=4; h,r-ind=1,1
      [4,3]((5,11,25),(6,13,30),(4,9,21),(11,24,56)); lvl=3; h,r-ind=1,1
        [3,3]((10,22,51),(6,13,30),(11,24,56)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,21),(10,22,51),(11,24,56)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,25),(10,22,51),(6,13,30)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,21),(5,11,25),(10,22,51)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(6,13,30),(11,24,56)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,34),(1,2,5),(6,13,30)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,34),(5,11,25),(6,13,30)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,9),(8,17,38),(7,15,34),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((7,15,34),(8,17,38),(9,19,43)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(8,17,38),(9,19,43)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,9),(9,19,43)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(7,15,34),(9,19,43)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(2,4,9),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,7),(2,4,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,7),(1,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((3,7,18),(3,7,17),(5,12,30),(1,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((6,14,35),(3,7,17),(5,12,30)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,18),(6,14,35),(5,12,30)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(3,7,18),(6,14,35)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(6,14,35),(3,7,17)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,7,18),(1,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(1,2,3),(1,2,4),(2,3,7)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,2),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,7),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
  [5,3]((2,5,7),(1,2,3),(1,2,4),(2,5,9),(3,7,14)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,4),(3,7,14),(3,7,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(3,7,14),(3,7,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(5,11,19),(3,7,12),(3,7,13)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,9,16),(5,11,19),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,13),(4,9,16),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,13),(4,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(4,9,16),(5,11,19)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,8),(2,5,9),(3,7,12),(3,7,13)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,21),(3,7,13),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(5,12,21),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(5,12,21),(3,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(2,5,9),(5,12,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(5,11,19)); lvl=2; h,r-ind=1,1
    [5,3]((1,2,3),(2,5,7),(2,5,8),(5,11,19),(3,7,12)); lvl=2; h,r-ind=1,1
      [4,3]((6,14,23),(4,9,15),(7,16,26),(3,7,12)); lvl=3; h,r-ind=1,1
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        [3,3]((10,23,38),(7,16,26),(4,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(10,23,38),(4,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,23),(3,7,12),(10,23,38)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,23),(10,23,38),(7,16,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(6,14,23),(3,7,12)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,8),(3,7,11),(6,14,23),(7,16,26)); lvl=3; h,r-ind=1,1
        [3,3]((9,21,34),(7,16,26),(3,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(9,21,34),(3,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,23),(9,21,34),(7,16,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(6,14,23),(9,21,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,11),(7,16,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(2,5,8),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,19),(4,9,15),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,19),(4,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,9,15),(7,16,26)); lvl=3; h,r-ind=1,1
[7,3]((1,3,7),(4,10,25),(3,7,17),(5,12,30),(1,3,5),(2,5,9),(3,7,14)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,12),(5,12,30),(3,7,17)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,11),(6,14,31),(2,5,12),(3,7,17)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,12),(7,17,39),(3,7,17),(3,7,16)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,7,17),(5,12,28),(3,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((7,17,39),(5,12,28),(3,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(3,7,17),(5,12,28)); lvl=4; h,r-ind=1,1
      [3,3]((7,17,39),(2,5,12),(5,12,28)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,11),(7,17,39),(3,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(6,14,31),(3,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(2,5,12),(7,17,39)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,7),(1,3,6),(2,5,11),(2,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,11),(3,8,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,12),(2,5,11),(3,8,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(1,3,6),(3,8,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,12),(1,3,7),(3,8,18)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,10),(2,5,11),(6,14,31),(3,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,15),(2,5,11),(6,14,31)); lvl=3; h,r-ind=1,1
    [3,3]((7,17,36),(3,7,15),(2,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,10),(7,17,36),(2,5,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,10),(7,17,36),(3,7,15),(3,7,14)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,12,25),(3,7,15),(7,17,36)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(5,12,25),(7,17,36)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,25),(3,7,14),(3,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(5,12,25),(3,7,14)); lvl=4; h,r-ind=1,1
  [3,3]((2,5,9),(2,5,10),(3,7,14)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,5),(2,5,9),(2,5,10)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,6),(1,3,5),(2,5,10),(2,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,10),(3,8,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(2,5,10),(3,8,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,5),(3,8,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(1,3,6),(3,8,16)); lvl=3; h,r-ind=1,1
  [3,3]((4,10,25),(2,5,12),(5,12,30)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,7),(4,10,25),(2,5,12)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,3,7),(1,3,5)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((2,5,13),(3,7,18),(4,10,25),(5,12,30)); lvl=1; h,r-ind=1,1
  [3,3]((7,17,43),(5,12,30),(3,7,18)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,13),(7,17,43),(3,7,18)); lvl=2; h,r-ind=1,1
  [3,3]((4,10,25),(7,17,43),(5,12,30)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,13),(4,10,25),(7,17,43)); lvl=2; h,r-ind=1,1
[4,3]((3,8,21),(1,3,7),(2,5,13),(4,10,25)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,13),(4,10,25),(3,8,20)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,7),(4,10,25),(3,8,20)); lvl=2; h,r-ind=1,1
  [3,3]((3,8,21),(2,5,13),(3,8,20)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,7),(3,8,21),(3,8,20)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(2,5,13),(3,7,18)); lvl=1; h,r-ind=1,1
[3,3]((3,8,21),(1,0,0),(2,5,13)); lvl=1; h,r-ind=1,1
[4,3]((0,1,0),(1,3,5),(2,5,7),(2,5,9)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,8),(1,3,4),(2,5,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,5),(1,3,4),(2,5,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,7),(2,5,8),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,7),(1,3,4)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(1,0,0),(2,5,7),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((3,7,9),(1,2,3),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,4,5),(1,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,9),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(3,7,9),(2,4,5)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,7,9),(1,2,2)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,5,7),(3,7,9),(1,2,3)); lvl=2; h,r-ind=1,1
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    [3,3]((0,1,0),(2,5,7),(3,7,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
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21.40 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,10,21)); lvl=0; h,r-ind=21,147
  [5,3]((1,1,2),(2,2,3),(2,6,7),(1,3,4),(1,2,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(2,4,5),(1,2,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,6,7),(2,4,5),(1,2,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,6,7),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,6),(1,3,4),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,10,21),(1,3,6),(1,2,4)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,11,21),(1,3,6),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,7),(3,11,21),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,7),(2,7,12),(1,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(2,7,11),(2,7,12),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,11),(2,7,12),(3,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,12),(3,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,6),(3,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,11),(3,10,17)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,4),(1,3,5),(2,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,4),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(1,4,5),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,7,11),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,5),(1,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,4,7),(2,7,11),(2,7,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,4,6),(2,7,11),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(1,4,6),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,7),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,6),(2,7,11)); lvl=3; h,r-ind=1,1
  [3,3]((3,10,21),(3,11,21),(1,3,6)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,10,21),(1,1,2),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,10,21),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,2,3),(2,6,7)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,5),(1,2,2),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(4,6,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,2,3),(2,3,4),(1,1,1),(4,6,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(2,3,4),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(1,1,1),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((2,4,5),(2,3,4),(1,2,2),(4,6,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,6),(2,3,4),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,5,6),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,7),(2,4,5),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
      [4,3]((2,4,5),(2,5,6),(1,2,2),(4,10,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,8),(2,5,6),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,8),(1,2,2),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,8),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(4,10,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(2,6,7),(2,5,6),(4,10,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,7),(3,8,9),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,11),(3,8,9),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(4,10,11),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,6,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,6,7),(1,3,4)); lvl=1; h,r-ind=1,1
```

21.41 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,13,21)); lvl=0; h,r-ind=21,147
  [4,3]((4,15,24),(1,0,0),(3,7,11),(5,17,27)); lvl=1; h,r-ind=1,1
    [4,3]((1,0,0),(5,15,24),(3,7,11),(4,12,19)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,8),(4,12,19),(9,24,38)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((3,7,11),(4,12,19),(9,24,38)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(3,7,11),(2,5,8),(9,24,38)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,19),(3,7,11),(9,24,38)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,19),(2,5,8),(9,24,38)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(5,12,19),(2,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(5,12,19),(3,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(5,15,24),(4,12,19)); lvl=3; h,r-ind=1,1
    [4,3]((4,15,24),(5,17,27),(5,15,24),(4,12,19)); lvl=2; h,r-ind=1,1
      [3,3]((4,12,19),(5,15,24),(3,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((12,39,62),(4,12,19),(3,10,16)); lvl=3; h,r-ind=1,1
      [4,3]((4,15,24),(12,39,62),(5,17,27),(3,10,16)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,27,43),(12,39,62),(5,17,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,24),(8,27,43),(5,17,27)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,16),(4,15,24),(8,27,43)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,16),(8,27,43),(12,39,62)); lvl=4; h,r-ind=1,1
      [3,3]((12,39,62),(5,17,27),(4,12,19)); lvl=3; h,r-ind=1,1
  [5,3]((2,7,11),(1,2,3),(2,6,9),(3,7,11),(5,17,27)); lvl=1; h,r-ind=1,1
    [4,3]((9,28,44),(3,9,14),(10,30,47),(2,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((12,37,58),(3,9,14),(10,30,47)); lvl=3; h,r-ind=1,1
      [3,3]((9,28,44),(12,37,58),(10,30,47)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(9,28,44),(12,37,58)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(12,37,58),(3,9,14)); lvl=3; h,r-ind=1,1
    [4,3]((5,17,27),(6,19,30),(9,28,44),(2,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((6,19,30),(9,28,44),(8,26,41)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(9,28,44),(8,26,41)); lvl=3; h,r-ind=1,1
      [3,3]((5,17,27),(6,19,30),(8,26,41)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(5,17,27),(8,26,41)); lvl=3; h,r-ind=1,1
    [6,3]((5,14,22),(4,12,19),(6,19,30),(8,23,36),(9,28,44),(10,30,47)); lvl=2; h,r-ind=1,1
      [3,3]((7,21,33),(9,28,44),(6,19,30)); lvl=3; h,r-ind=1,1
      [3,3]((4,12,19),(7,21,33),(6,19,30)); lvl=3; h,r-ind=1,1
      [3,3]((5,14,22),(4,12,19),(7,21,33)); lvl=3; h,r-ind=1,1
      [3,3]((7,21,33),(10,30,47),(9,28,44)); lvl=3; h,r-ind=1,1
      [3,3]((7,21,33),(10,30,47),(8,23,36)); lvl=3; h,r-ind=1,1
      [3,3]((5,14,22),(7,21,33),(8,23,36)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(3,7,11),(5,14,22),(8,23,36)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,11),(6,16,25),(5,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((8,23,36),(6,16,25),(5,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(8,23,36),(6,16,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,11),(6,16,25)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,11),(5,14,22),(4,12,19)); lvl=2; h,r-ind=1,1
    [3,3]((5,17,27),(4,12,19),(6,19,30)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(3,9,14),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,6,9),(3,9,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(8,23,36),(3,9,14),(10,30,47)); lvl=2; h,r-ind=1,1
      [3,3]((3,9,14),(10,30,47),(11,32,50)); lvl=3; h,r-ind=1,1
      [3,3]((8,23,36),(10,30,47),(11,32,50)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,9,14),(11,32,50)); lvl=3; h,r-ind=1,1
      [3,3]((8,23,36),(1,2,3),(11,32,50)); lvl=3; h,r-ind=1,1
  [5,3]((9,35,56),(4,15,24),(2,7,11),(5,19,30),(5,17,27)); lvl=1; h,r-ind=1,1
    [4,3]((17,64,102),(6,22,35),(19,71,113),(4,15,24)); lvl=2; h,r-ind=1,1
      [3,3]((6,22,35),(19,71,113),(23,86,137)); lvl=3; h,r-ind=1,1
      [3,3]((17,64,102),(19,71,113),(23,86,137)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,24),(17,64,102),(23,86,137)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,24),(6,22,35),(23,86,137)); lvl=3; h,r-ind=1,1
    [4,3]((9,35,56),(11,42,67),(17,64,102),(4,15,24)); lvl=2; h,r-ind=1,1
      [3,3]((11,42,67),(17,64,102),(15,57,91)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,24),(17,64,102),(15,57,91)); lvl=3; h,r-ind=1,1
      [3,3]((9,35,56),(11,42,67),(15,57,91)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,24),(9,35,56),(15,57,91)); lvl=3; h,r-ind=1,1
    [3,3]((5,17,27),(6,22,35),(4,15,24)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,11),(5,17,27),(6,22,35)); lvl=2; h,r-ind=1,1
    [6,3]((7,27,43),(11,42,67),(17,64,102),(19,71,113),(9,34,54),(15,56,89)); lvl=2; h,r-ind=1,1
      [3,3]((13,49,78),(17,64,102),(11,42,67)); lvl=3; h,r-ind=1,1
      [3,3]((7,27,43),(13,49,78),(11,42,67)); lvl=3; h,r-ind=1,1
      [3,3]((7,27,43),(9,34,54),(13,49,78)); lvl=3; h,r-ind=1,1
      [3,3]((19,71,113),(13,49,78),(17,64,102)); lvl=3; h,r-ind=1,1
      [3,3]((19,71,113),(15,56,89),(13,49,78)); lvl=3; h,r-ind=1,1
      [3,3]((9,34,54),(15,56,89),(13,49,78)); lvl=3; h,r-ind=1,1
    [3,3]((9,35,56),(7,27,43),(11,42,67)); lvl=2; h,r-ind=1,1
    [4,3]((5,19,30),(2,7,11),(9,34,54),(15,56,89)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,11),(11,41,65),(15,56,89)); lvl=3; h,r-ind=1,1
      [3,3]((9,34,54),(11,41,65),(15,56,89)); lvl=3; h,r-ind=1,1
      [3,3]((5,19,30),(9,34,54),(11,41,65)); lvl=3; h,r-ind=1,1
      [3,3]((5,19,30),(2,7,11),(11,41,65)); lvl=3; h,r-ind=1,1
    [3,3]((7,27,43),(5,19,30),(9,34,54)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,11),(6,22,35),(19,71,113),(15,56,89)); lvl=2; h,r-ind=1,1
      [3,3]((21,78,124),(19,71,113),(6,22,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(21,78,124),(6,22,35)); lvl=3; h,r-ind=1,1
      [3,3]((15,56,89),(2,7,11),(21,78,124)); lvl=3; h,r-ind=1,1
      [3,3]((15,56,89),(21,78,124),(19,71,113)); lvl=3; h,r-ind=1,1
```

```
[3,3]((3,13,21),(9,35,56),(4,15,24)); lvl=1; h,r-ind=1,1
[6,3]((2,7,11),(1,3,4),(2,7,9),(2,6,9),(1,4,6),(5,19,30)); lvl=1; h,r-ind=1,1
  [3,3]((3,11,17),(1,4,6),(5,19,30)); lvl=2; h,r-ind=1,1
  [3,3]((3,11,17),(2,7,11),(5,19,30)); lvl=2; h,r-ind=1,1
  [4,3]((6,21,32),(3,11,17),(7,25,38),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((9,32,49),(3,11,17),(7,25,38)); lvl=3; h,r-ind=1,1
    [3,3]((6,21,32),(9,32,49),(7,25,38)); lvl=3; h,r-ind=1,1
    [3,3]((9,32,49),(2,7,11),(3,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((6,21,32),(9,32,49),(2,7,11)); lvl=3; h,r-ind=1,1
  [4,3]((2,6,9),(3,10,15),(6,21,32),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,17,26),(3,10,15),(6,21,32)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,11),(5,17,26),(6,21,32)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(2,7,11),(5,17,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(5,17,26),(3,10,15)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,4),(5,17,25),(2,6,9),(3,10,15)); lvl=2; h,r-ind=1,1
    [3,3]((4,13,19),(5,17,25),(3,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(4,13,19),(3,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,9),(4,13,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(4,13,19),(5,17,25)); lvl=3; h,r-ind=1,1
  [6,3]((5,18,27),(5,17,25),(6,21,31),(3,10,15),(6,21,32),(7,25,38)); lvl=2; h,r-ind=1,1
    [3,3]((4,14,21),(6,21,32),(7,25,38)); lvl=3; h,r-ind=1,1
    [3,3]((5,18,27),(4,14,21),(7,25,38)); lvl=3; h,r-ind=1,1
    [3,3]((6,21,31),(5,18,27),(4,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((5,17,25),(6,21,31),(4,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,15),(4,14,21),(6,21,32)); lvl=3; h,r-ind=1,1
    [3,3]((5,17,25),(3,10,15),(4,14,21)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,4),(2,7,10),(5,17,25),(6,21,31)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,10),(6,21,31),(7,24,35)); lvl=3; h,r-ind=1,1
    [3,3]((5,17,25),(6,21,31),(7,24,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,10),(7,24,35)); lvl=3; h,r-ind=1,1
    [3,3]((5,17,25),(1,3,4),(7,24,35)); lvl=3; h,r-ind=1,1
  [4,3]((5,18,27),(3,11,17),(7,25,38),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((7,25,38),(3,11,17),(8,29,44)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(3,11,17),(8,29,44)); lvl=3; h,r-ind=1,1
    [3,3]((5,18,27),(7,25,38),(8,29,44)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(5,18,27),(8,29,44)); lvl=3; h,r-ind=1,1
  [4,3]((5,18,27),(2,7,10),(6,21,31),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((6,21,31),(2,7,10),(7,25,37)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,10),(7,25,37)); lvl=3; h,r-ind=1,1
    [3,3]((5,18,27),(6,21,31),(7,25,37)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(5,18,27),(7,25,37)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,9),(2,7,10),(1,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,4),(2,7,9),(2,7,10)); lvl=2; h,r-ind=1,1
[5,3]((3,13,21),(9,35,56),(3,14,21),(1,4,6),(5,19,30)); lvl=1; h,r-ind=1,1
  [4,3]((8,32,51),(5,19,30),(7,27,43),(3,12,19)); lvl=2; h,r-ind=1,1
    [3,3]((10,39,62),(7,27,43),(5,19,30)); lvl=3; h,r-ind=1,1
    [3,3]((3,12,19),(10,39,62),(5,19,30)); lvl=3; h,r-ind=1,1
    [3,3]((8,32,51),(3,12,19),(10,39,62)); lvl=3; h,r-ind=1,1
    [3,3]((8,32,51),(10,39,62),(7,27,43)); lvl=3; h,r-ind=1,1
  [4,3]((8,32,51),(9,35,56),(5,20,32),(7,27,43)); lvl=2; h,r-ind=1,1
    [3,3]((12,47,75),(5,20,32),(9,35,56)); lvl=3; h,r-ind=1,1
    [3,3]((7,27,43),(12,47,75),(9,35,56)); lvl=3; h,r-ind=1,1
    [3,3]((8,32,51),(7,27,43),(12,47,75)); lvl=3; h,r-ind=1,1
    [3,3]((8,32,51),(12,47,75),(5,20,32)); lvl=3; h,r-ind=1,1
  [3,3]((3,13,21),(9,35,56),(5,20,32)); lvl=2; h,r-ind=1,1
  [4,3]((3,13,21),(9,37,59),(8,32,51),(5,20,32)); lvl=2; h,r-ind=1,1
    [4,3]((6,25,40),(19,77,123),(8,32,51),(9,37,59)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((19,77,123),(14,57,91),(8,32,51)); lvl=4; h,r-ind=1,1
      [3,3]((9,37,59),(14,57,91),(8,32,51)); lvl=4; h,r-ind=1,1
      [3,3]((6,25,40),(19,77,123),(14,57,91)); lvl=4; h,r-ind=1,1
      [3,3]((9,37,59),(6,25,40),(14,57,91)); lvl=4; h,r-ind=1,1
    [3,3]((5,20,32),(19,77,123),(8,32,51)); lvl=3; h,r-ind=1,1
    [4,3]((6,25,40),(3,13,21),(5,20,32),(19,77,123)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((11,45,72),(5,20,32),(3,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((6,25,40),(11,45,72),(3,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((19,77,123),(11,45,72),(5,20,32)); lvl=4; h,r-ind=1,1
      [3,3]((6,25,40),(19,77,123),(11,45,72)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,6),(5,19,30),(3,12,19)); lvl=2; h,r-ind=1,1
  [4,3]((8,33,52),(6,25,39),(1,4,6),(3,12,19)); lvl=2; h,r-ind=1,1
    [3,3]((9,37,58),(1,4,6),(6,25,39)); lvl=3; h,r-ind=1,1
    [3,3]((8,33,52),(9,37,58),(6,25,39)); lvl=3; h,r-ind=1,1
    [3,3]((9,37,58),(3,12,19),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((8,33,52),(9,37,58),(3,12,19)); lvl=3; h,r-ind=1,1
  [5,3]((7,29,46),(9,37,59),(8,32,51),(8,33,52),(3,12,19)); lvl=2; h,r-ind=1,1
    [3,3]((15,61,97),(3,12,19),(8,32,51)); lvl=3; h,r-ind=1,1
    [3,3]((9,37,59),(15,61,97),(8,32,51)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((7,29,46),(9,37,59),(19,78,124)); lvl=3; h,r-ind=1,1
    [4,3]((10,41,65),(15,61,97),(22,90,143),(3,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((25,102,162),(15,61,97),(22,90,143)); lvl=4; h,r-ind=1,1
      [3,3]((10,41,65),(25,102,162),(22,90,143)); lvl=4; h,r-ind=1,1
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      [3,3]((25,102,162),(3,12,19),(15,61,97)); lvl=4; h,r-ind=1,1
      [3,3]((10,41,65),(25,102,162),(3,12,19)); lvl=4; h,r-ind=1,1
    [3,3]((10,41,65),(8,33,52),(3,12,19)); lvl=3; h,r-ind=1,1
    [3,3]((7,29,46),(10,41,65),(8,33,52)); lvl=3; h,r-ind=1,1
    [4,3]((9,37,59),(15,61,97),(22,90,143),(19,78,124)); lvl=3; h,r-ind=1,1
      [4,3]((12,49,78),(15,61,97),(22,90,143),(53,217,345)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((15,61,97),(34,139,221),(22,90,143)); lvl=5; h,r-ind=1,1
        [3,3]((53,217,345),(34,139,221),(22,90,143)); lvl=5; h,r-ind=1,1
        [3,3]((12,49,78),(15,61,97),(34,139,221)); lvl=5; h,r-ind=1,1
        [3,3]((53,217,345),(12,49,78),(34,139,221)); lvl=5; h,r-ind=1,1
      [3,3]((19,78,124),(22,90,143),(53,217,345)); lvl=4; h,r-ind=1,1
      [4,3]((19,78,124),(9,37,59),(12,49,78),(53,217,345)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((9,37,59),(31,127,202),(12,49,78)); lvl=5; h,r-ind=1,1
        [3,3]((53,217,345),(31,127,202),(12,49,78)); lvl=5; h,r-ind=1,1
        [3,3]((19,78,124),(9,37,59),(31,127,202)); lvl=5; h,r-ind=1,1
        [3,3]((53,217,345),(19,78,124),(31,127,202)); lvl=5; h,r-ind=1,1
    [4,3]((7,29,46),(10,41,65),(22,90,143),(19,78,124)); lvl=3; h,r-ind=1,1
      [3,3]((22,90,143),(10,41,65),(29,119,189)); lvl=4; h,r-ind=1,1
      [3,3]((7,29,46),(10,41,65),(29,119,189)); lvl=4; h,r-ind=1,1
      [3,3]((19,78,124),(7,29,46),(29,119,189)); lvl=4; h,r-ind=1,1
      [3,3]((19,78,124),(22,90,143),(29,119,189)); lvl=4; h,r-ind=1,1
  [4,3]((3,13,21),(7,29,46),(9,37,59),(4,17,27)); lvl=2; h,r-ind=1,1
    [4,3]((6,25,40),(17,71,113),(7,29,46),(9,37,59)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((7,29,46),(17,71,113),(13,54,86)); lvl=4; h,r-ind=1,1
      [3,3]((6,25,40),(17,71,113),(13,54,86)); lvl=4; h,r-ind=1,1
      [3,3]((9,37,59),(7,29,46),(13,54,86)); lvl=4; h,r-ind=1,1
      [3,3]((6,25,40),(9,37,59),(13,54,86)); lvl=4; h,r-ind=1,1
    [3,3]((4,17,27),(17,71,113),(7,29,46)); lvl=3; h,r-ind=1,1
    [4,3]((6,25,40),(3,13,21),(4,17,27),(17,71,113)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,17,27),(3,13,21),(10,42,67)); lvl=4; h,r-ind=1,1
      [3,3]((6,25,40),(3,13,21),(10,42,67)); lvl=4; h,r-ind=1,1
      [3,3]((17,71,113),(4,17,27),(10,42,67)); lvl=4; h,r-ind=1,1
      [3,3]((6,25,40),(17,71,113),(10,42,67)); lvl=4; h,r-ind=1,1
  [5,3]((7,29,46),(4,17,27),(2,9,14),(8,33,52),(6,25,39)); lvl=2; h,r-ind=1,1
    [3,3]((6,25,39),(2,9,14),(5,21,33)); lvl=3; h,r-ind=1,1
    [3,3]((4,17,27),(2,9,14),(5,21,33)); lvl=3; h,r-ind=1,1
    [3,3]((7,29,46),(4,17,27),(5,21,33)); lvl=3; h,r-ind=1,1
    [3,3]((8,33,52),(6,25,39),(5,21,33)); lvl=3; h,r-ind=1,1
    [3,3]((7,29,46),(8,33,52),(5,21,33)); lvl=3; h,r-ind=1,1
  [3,3]((3,13,21),(4,17,27),(2,9,14)); lvl=2; h,r-ind=1,1
  [4,3]((3,14,21),(2,9,14),(6,25,39),(1,4,6)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((3,13,20),(6,25,39),(2,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,21),(3,13,20),(2,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,20),(1,4,6),(6,25,39)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,21),(3,13,20),(1,4,6)); lvl=3; h,r-ind=1,1
[5,3]((0,1,0),(3,14,21),(2,7,7),(2,7,9),(1,4,6)); lvl=1; h,r-ind=1,1
  [4,3]((2,8,9),(1,4,5),(2,7,8),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,13),(2,7,8),(2,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,13),(1,4,5),(2,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,9),(3,11,13),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,9),(3,11,13),(2,7,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,5),(1,4,6),(2,7,9)); lvl=2; h,r-ind=1,1
  [4,3]((3,13,18),(3,13,17),(1,4,5),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(3,13,17),(4,17,23)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,18),(3,13,17),(4,17,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(3,13,18),(4,17,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,4,5),(4,17,23)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,7),(3,14,21),(3,13,18),(1,4,6)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((3,14,21),(2,9,13),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,18),(2,9,13),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(3,13,18),(2,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(3,14,21),(2,9,13)); lvl=3; h,r-ind=1,1
  [5,3]((1,5,7),(2,9,11),(1,5,6),(3,13,18),(3,13,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,12),(3,13,18),(3,13,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(2,9,11),(3,13,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(1,5,6),(2,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,12),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,12),(3,13,18)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,7),(1,5,6)); lvl=2; h,r-ind=1,1
  [5,3]((2,9,11),(2,9,10),(3,13,17),(2,8,9),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,17,20),(2,8,9),(1,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((4,17,20),(3,13,16),(6,26,31),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,16),(6,26,31),(7,30,36)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,20),(6,26,31),(7,30,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(4,17,20),(7,30,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(3,13,16),(7,30,36)); lvl=4; h,r-ind=1,1
    [3,3]((3,13,16),(3,13,17),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,11),(3,13,16),(3,13,17)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,11),(5,22,26),(3,13,16),(6,26,31)); lvl=3; h,r-ind=1,1
      [3,3]((8,35,42),(6,26,31),(3,13,16)); lvl=4; h,r-ind=1,1
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        [3,3]((2,9,11),(8,35,42),(3,13,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,22,26),(8,35,42),(6,26,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,11),(5,22,26),(8,35,42)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,10),(4,17,20),(5,22,26),(6,26,31)); lvl=3; h,r-ind=1,1
        [4,3]((3,13,15),(4,17,20),(6,26,31),(14,61,72)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((9,39,46),(4,17,20),(6,26,31)); lvl=5; h,r-ind=1,1
          [3,3]((14,61,72),(9,39,46),(6,26,31)); lvl=5; h,r-ind=1,1
          [3,3]((3,13,15),(14,61,72),(9,39,46)); lvl=5; h,r-ind=1,1
          [3,3]((3,13,15),(9,39,46),(4,17,20)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,26),(6,26,31),(14,61,72)); lvl=4; h,r-ind=1,1
        [4,3]((5,22,26),(2,9,10),(3,13,15),(14,61,72)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((8,35,41),(2,9,10),(3,13,15)); lvl=5; h,r-ind=1,1
          [3,3]((14,61,72),(8,35,41),(3,13,15)); lvl=5; h,r-ind=1,1
          [3,3]((5,22,26),(14,61,72),(8,35,41)); lvl=5; h,r-ind=1,1
          [3,3]((5,22,26),(8,35,41),(2,9,10)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,10),(4,17,20),(2,8,9)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,9,11),(2,9,10),(5,22,26)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(2,9,11),(2,9,10),(1,5,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,5),(2,9,10),(2,9,11),(4,19,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,10),(3,14,16),(2,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,19,22),(3,14,16),(2,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(2,9,10),(3,14,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,19,22),(1,5,5),(3,14,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,9,11),(4,19,22)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,5,6),(1,5,5),(4,19,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,10,11),(1,5,6),(4,19,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(2,10,11),(4,19,22)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,10,11),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(0,1,0),(2,10,11)); lvl=4; h,r-ind=1,1
    [4,3]((2,8,9),(2,7,7),(1,4,4),(2,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,12),(2,7,7),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(3,11,12),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(2,8,9),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,11,12),(2,7,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,7),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(2,9,10),(2,8,9),(1,4,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,5),(2,9,10),(2,8,9),(4,17,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,14),(2,9,10),(2,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,17,18),(3,13,14),(2,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(4,17,18),(3,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(3,13,14),(2,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(2,8,9),(4,17,18)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,4,4),(1,5,5),(4,17,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,9),(1,4,4),(4,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,9),(1,5,5),(4,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,9,9),(1,4,4)); lvl=4; h,r-ind=1,1
  [5,3]((2,5,6),(1,3,4),(1,2,3),(2,3,4),(2,6,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,9),(2,5,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((5,12,16),(2,5,7),(6,14,19),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((7,17,23),(6,14,19),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(7,17,23),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,16),(1,3,4),(7,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,16),(7,17,23),(6,14,19)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,6),(3,7,9),(5,12,16),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,9),(5,12,16),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,12,16),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,7,9),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,6),(4,10,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(3,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,7),(6,14,19),(5,11,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(6,14,19),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,15),(6,14,19),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,15),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(7,16,22)); lvl=3; h,r-ind=1,1
    [6,3]((2,4,5),(3,7,9),(5,12,16),(6,14,19),(5,11,15),(3,6,8)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,16),(3,7,9),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,7,9),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,6,8),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,19),(5,12,16),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,19),(5,11,15),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,8),(5,11,15),(4,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(1,2,3),(2,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(5,11,15),(3,6,8),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,6,8),(5,11,15),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,15),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(1,2,3),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,6,8),(4,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(3,6,8),(2,3,4)); lvl=2; h,r-ind=1,1
  [5,3]((1,3,3),(2,7,7),(2,5,6),(1,3,4),(2,7,9)); lvl=1; h,r-ind=1,1
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    [4,3]((5,16,19),(1,3,4),(2,7,9),(3,10,12)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(4,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(2,7,9),(4,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,19),(3,10,12),(4,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,19),(1,3,4),(4,13,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,8),(2,7,9),(3,10,12)); lvl=2; h,r-ind=1,1
    [6,3]((5,16,18),(3,10,11),(2,7,8),(6,19,22),(5,16,19),(3,10,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,15),(3,10,12),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,15),(3,10,11),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,18),(4,13,15),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,15),(3,10,12),(5,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,15),(5,16,19),(6,19,22)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,18),(4,13,15),(6,19,22)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,11),(2,7,7),(2,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(5,16,18),(3,10,11),(2,7,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,16,18),(4,13,14),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,7),(4,13,14),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(4,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(5,16,18),(4,13,14)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,7),(6,19,22),(5,16,19),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((5,16,19),(6,19,22),(7,22,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(6,19,22),(7,22,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,7),(7,22,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,16,19),(7,22,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,6,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,6),(2,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(5,16,18),(2,6,7),(6,19,22)); lvl=2; h,r-ind=1,1
      [3,3]((5,16,18),(6,19,22),(7,22,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(6,19,22),(7,22,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(5,16,18),(7,22,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(1,3,3),(7,22,25)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(2,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((3,13,21),(4,15,24),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,2,3),(1,0,0),(3,7,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(2,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,3),(2,5,6),(2,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,3),(1,0,0),(2,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,1),(1,0,0),(2,3,4),(5,8,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,0,0),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,10),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(5,8,10),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(2,3,4),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,1,1),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,3,3),(1,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(2,3,3),(2,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,11,13),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(5,11,13),(2,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(1,3,3),(2,5,6),(5,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,3),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,3),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(1,2,2),(3,7,8)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
```

21.42 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,14,21)); lvl=0; h,r-ind=21,21
  [5,3]((1,4,6),(1,4,5),(2,6,9),(2,7,7),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,8),(1,3,3),(2,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,8),(2,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,6),(4,15,20)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(2,7,8),(2,7,9),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,9),(2,7,8),(3,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,8),(3,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(3,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,3,4),(3,10,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(4,15,20),(1,3,4),(2,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((4,15,20),(3,11,15),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,11,15),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,3,4),(3,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(4,15,20),(3,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,6,9),(1,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(4,15,20),(2,7,8),(2,7,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,8),(3,11,14),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,20),(3,11,14),(2,7,9)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,4,5),(2,7,8),(3,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,20),(1,4,5),(3,11,14)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,7,7),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,6,9),(1,3,3)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((0,1,0),(1,5,7),(1,4,5),(2,7,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,5),(1,5,7),(2,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,10),(1,5,5),(1,5,7),(2,9,11)); lvl=2; h,r-ind=1,1
      [4,3]((5,23,27),(2,9,11),(1,5,6),(1,5,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,17),(1,5,6),(1,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,17),(2,9,11),(1,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((5,23,27),(3,14,17),(2,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((5,23,27),(3,14,17),(1,5,6)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,10),(5,23,27),(1,5,5),(1,5,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,16),(1,5,5),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,23,27),(3,14,16),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(5,23,27),(3,14,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(3,14,16),(1,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,10),(5,23,27),(2,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(2,9,10),(1,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(1,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,7),(0,1,0),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,5,7)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,4,4),(2,9,10),(1,4,5),(2,9,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,10),(2,9,11),(3,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,11),(3,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,9,10),(3,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,4),(3,13,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,7),(1,4,4),(1,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,7),(1,4,6),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,7),(3,14,21),(1,4,6)); lvl=1; h,r-ind=1,1
```

21.43 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,16,21)); lvl=0; h,r-ind=21,147
  [6,3]((3,14,18),(4,19,24),(4,11,14),(2,7,9),(1,2,2),(2,7,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,9),(3,14,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(4,19,24),(3,14,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(4,19,24),(2,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,9,11),(4,17,20)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,7),(1,3,3),(1,4,5),(4,17,20)); lvl=2; h,r-ind=1,1
      [3,3]((4,15,17),(1,4,5),(1,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,7),(2,8,9),(4,15,17),(1,3,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,8,9),(4,15,17),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(4,15,17),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,7),(1,3,3),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,7),(2,8,9),(3,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,9),(4,15,17),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,17,20),(2,8,9),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,14),(1,4,5),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,14),(5,13,16),(1,4,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((5,13,16),(1,2,2),(1,4,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,2),(1,3,3),(1,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,7,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((0,1,0),(3,17,21),(4,19,24),(3,15,19),(2,7,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,5),(2,9,10),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,7),(4,17,20),(2,9,10),(1,4,4)); lvl=2; h,r-ind=1,1
      [4,3]((2,8,9),(4,17,19),(3,13,15),(7,29,32)); lvl=3; h,r-ind=1,1
        [3,3]((6,25,28),(3,13,15),(4,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((7,29,32),(6,25,28),(4,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(7,29,32),(6,25,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(6,25,28),(3,13,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,9),(4,17,20),(3,13,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,4),(2,9,10),(4,17,19),(7,29,32)); lvl=3; h,r-ind=1,1
        [3,3]((2,9,10),(5,21,23),(4,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((7,29,32),(5,21,23),(4,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(7,29,32),(5,21,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(2,9,10),(5,21,23)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,7),(2,8,9),(1,4,4),(7,29,32)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,12,13),(2,8,9),(7,29,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(3,12,13),(7,29,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,7),(3,12,13),(2,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(2,7,7),(3,12,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,10),(4,17,19),(3,13,15)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,7),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(4,17,20),(2,9,11),(2,9,10)); lvl=2; h,r-ind=1,1
```

```
      [4,3]((2,9,11),(6,27,32),(3,13,15),(4,17,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,15),(6,27,32),(5,22,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,11),(6,27,32),(5,22,26)); lvl=4; h,r-ind=1,1
        [3,3]((4,17,20),(3,13,15),(5,22,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,11),(4,17,20),(5,22,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,9,11),(6,27,32)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,10),(1,5,6),(6,27,32),(3,13,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,18,21),(6,27,32),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(4,18,21),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,15),(2,9,10),(4,18,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,15),(4,18,21),(6,27,32)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,5),(1,5,6),(2,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,19,24),(1,5,6),(2,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,15,19),(4,19,24),(1,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,5,5),(1,5,6),(1,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,6),(1,5,5),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,6),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,7),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(1,5,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,6),(3,17,21),(3,16,20),(1,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,16,20),(3,17,21),(4,22,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(3,17,21),(4,22,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,6,7),(4,22,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(3,16,20),(4,22,27)); lvl=3; h,r-ind=1,1
    [3,3]((3,15,19),(1,5,6),(3,16,20)); lvl=2; h,r-ind=1,1
  [4,3]((3,14,18),(4,19,24),(3,15,19),(2,10,13)); lvl=1; h,r-ind=1,1
    [3,3]((4,19,24),(3,15,19),(6,29,37)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,13),(3,15,19),(6,29,37)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,18),(4,19,24),(6,29,37)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,13),(3,14,18),(6,29,37)); lvl=2; h,r-ind=1,1
  [4,3]((3,16,21),(3,17,21),(3,15,19),(2,10,13)); lvl=1; h,r-ind=1,1
    [3,3]((5,26,33),(3,16,20),(3,15,19)); lvl=2; h,r-ind=1,1
    [4,3]((2,10,13),(5,26,33),(9,47,60),(3,15,19)); lvl=2; h,r-ind=1,1
      [3,3]((9,47,60),(7,36,46),(5,26,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,19),(7,36,46),(5,26,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,13),(9,47,60),(7,36,46)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,19),(2,10,13),(7,36,46)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,14),(3,16,21),(2,10,13),(9,47,60)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,16,21),(4,21,27),(2,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((9,47,60),(4,21,27),(2,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(3,16,21),(4,21,27)); lvl=3; h,r-ind=1,1
      [3,3]((9,47,60),(2,11,14),(4,21,27)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,14),(5,26,33),(9,47,60),(3,16,20)); lvl=2; h,r-ind=1,1
      [3,3]((7,37,47),(5,26,33),(9,47,60)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(7,37,47),(9,47,60)); lvl=3; h,r-ind=1,1
      [3,3]((7,37,47),(3,16,20),(5,26,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(7,37,47),(3,16,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,14),(3,17,21),(3,16,20)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(3,7,9),(4,11,14),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(3,7,9),(4,11,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(5,13,16),(4,11,14)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,1,1),(1,2,2),(2,4,5),(5,13,16)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,5),(2,5,6),(5,10,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(1,2,2),(2,5,6),(5,10,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,6,7),(1,2,2),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,10,12),(3,6,7),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(5,10,12),(3,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,6,7),(1,2,2)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(1,1,1),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(5,13,16),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,4,5),(3,7,9)); lvl=2; h,r-ind=1,1
  [4,3]((3,7,9),(4,11,14),(5,17,22),(2,7,9)); lvl=1; h,r-ind=1,1
    [3,3]((5,14,18),(4,11,14),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((5,17,22),(5,14,18),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,9),(5,17,22),(5,14,18)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,9),(5,14,18),(4,11,14)); lvl=2; h,r-ind=1,1
  [5,3]((3,14,18),(2,10,13),(5,17,22),(2,7,9),(5,23,30)); lvl=1; h,r-ind=1,1
    [4,3]((11,47,61),(13,54,70),(4,17,22),(2,10,13)); lvl=2; h,r-ind=1,1
      [3,3]((15,64,83),(4,17,22),(13,54,70)); lvl=3; h,r-ind=1,1
      [3,3]((11,47,61),(15,64,83),(13,54,70)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,13),(11,47,61),(15,64,83)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,13),(15,64,83),(4,17,22)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,18),(4,17,22),(2,10,13)); lvl=2; h,r-ind=1,1
    [4,3]((11,44,57),(13,54,70),(4,17,22),(2,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((13,54,70),(4,17,22),(15,61,79)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(4,17,22),(15,61,79)); lvl=3; h,r-ind=1,1
      [3,3]((11,44,57),(13,54,70),(15,61,79)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(11,44,57),(15,61,79)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((3,14,18),(4,17,22),(2,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((5,23,30),(7,30,39),(11,47,61),(2,10,13)); lvl=2; h,r-ind=1,1
      [3,3]((7,30,39),(11,47,61),(9,40,52)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,13),(11,47,61),(9,40,52)); lvl=3; h,r-ind=1,1
      [3,3]((5,23,30),(2,10,13),(9,40,52)); lvl=3; h,r-ind=1,1
      [3,3]((5,23,30),(7,30,39),(9,40,52)); lvl=3; h,r-ind=1,1
    [6,3]((7,30,39),(7,27,35),(11,44,57),(11,47,61),(13,54,70),(5,20,26)); lvl=2; h,r-ind=1,1
      [3,3]((9,37,48),(11,44,57),(7,27,35)); lvl=3; h,r-ind=1,1
      [3,3]((5,20,26),(9,37,48),(7,27,35)); lvl=3; h,r-ind=1,1
      [3,3]((5,20,26),(7,30,39),(9,37,48)); lvl=3; h,r-ind=1,1
      [3,3]((9,37,48),(13,54,70),(11,44,57)); lvl=3; h,r-ind=1,1
      [3,3]((11,47,61),(9,37,48),(13,54,70)); lvl=3; h,r-ind=1,1
      [3,3]((7,30,39),(11,47,61),(9,37,48)); lvl=3; h,r-ind=1,1
    [3,3]((7,27,35),(5,17,22),(5,20,26)); lvl=2; h,r-ind=1,1
    [4,3]((7,27,35),(11,44,57),(2,7,9),(5,17,22)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,9),(11,44,57),(9,34,44)); lvl=3; h,r-ind=1,1
      [3,3]((7,27,35),(11,44,57),(9,34,44)); lvl=3; h,r-ind=1,1
      [3,3]((7,27,35),(5,17,22),(9,34,44)); lvl=3; h,r-ind=1,1
      [3,3]((5,17,22),(2,7,9),(9,34,44)); lvl=3; h,r-ind=1,1
    [3,3]((5,23,30),(7,30,39),(5,20,26)); lvl=2; h,r-ind=1,1
  [3,3]((3,16,21),(2,10,13),(5,23,30)); lvl=1; h,r-ind=1,1
  [5,3]((1,0,0),(3,16,21),(3,7,9),(5,17,22),(5,23,30)); lvl=1; h,r-ind=1,1
    [4,3]((3,13,17),(6,23,30),(5,20,26),(5,23,30)); lvl=2; h,r-ind=1,1
      [3,3]((8,33,43),(5,20,26),(6,23,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,17),(8,33,43),(6,23,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,17),(5,23,30),(8,33,43)); lvl=3; h,r-ind=1,1
      [3,3]((5,23,30),(8,33,43),(5,20,26)); lvl=3; h,r-ind=1,1
    [3,3]((3,16,21),(3,13,17),(5,23,30)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,16,21),(3,13,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,13,17),(6,23,30)); lvl=2; h,r-ind=1,1
    [4,3]((3,10,13),(5,17,22),(6,23,30),(5,20,26)); lvl=2; h,r-ind=1,1
      [3,3]((5,17,22),(5,20,26),(8,30,39)); lvl=3; h,r-ind=1,1
      [3,3]((6,23,30),(5,20,26),(8,30,39)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,13),(5,17,22),(8,30,39)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,13),(6,23,30),(8,30,39)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(3,10,13),(6,23,30)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,9),(3,10,13),(5,17,22)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,7,9),(3,10,13)); lvl=2; h,r-ind=1,1
```

21.44 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,17,21)); lvl=0; h,r-ind=21,147
  [3,3]((2,7,7),(0,1,0),(1,2,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((2,7,7),(2,6,7),(1,5,6),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,8),(1,5,6),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,7,8),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,8),(1,5,6),(4,15,17)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(1,2,2),(2,7,8),(4,15,17)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(3,10,11),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,17),(3,10,11),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(4,15,17),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(3,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(1,5,6),(4,15,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,7),(1,3,3),(1,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,5,6),(2,6,7),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(2,6,7),(5,12,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(1,1,1),(2,6,7),(5,12,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(3,7,8),(5,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,7,8),(5,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,6,7),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(3,7,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,1),(2,5,6),(5,12,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(3,6,7),(5,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,6,7),(5,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,5,6),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,1),(3,6,7)); lvl=3; h,r-ind=1,1
  [5,3]((5,14,17),(2,5,6),(2,9,11),(2,6,7),(1,5,6)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,6),(6,19,23),(3,10,12),(7,24,29)); lvl=2; h,r-ind=1,1
      [3,3]((9,29,35),(7,24,29),(6,19,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(9,29,35),(6,19,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(9,29,35),(7,24,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,10,12),(9,29,35)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,6),(5,19,23),(3,10,12),(7,24,29)); lvl=2; h,r-ind=1,1
      [3,3]((5,19,23),(7,24,29),(8,29,35)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(7,24,29),(8,29,35)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(3,10,12),(8,29,35)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,5,6),(5,19,23),(8,29,35)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,11),(1,5,6),(5,19,23)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,11),(5,19,23),(6,19,23),(7,24,29)); lvl=2; h,r-ind=1,1
      [3,3]((7,24,29),(5,19,23),(16,57,69)); lvl=3; h,r-ind=1,1
      [4,3]((4,14,17),(2,9,11),(5,19,23),(16,57,69)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,19,23),(2,9,11),(9,33,40)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,17),(2,9,11),(9,33,40)); lvl=4; h,r-ind=1,1
        [3,3]((16,57,69),(5,19,23),(9,33,40)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,17),(16,57,69),(9,33,40)); lvl=4; h,r-ind=1,1
      [4,3]((6,19,23),(4,14,17),(7,24,29),(16,57,69)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,14,17),(11,38,46),(16,57,69)); lvl=4; h,r-ind=1,1
        [3,3]((7,24,29),(11,38,46),(16,57,69)); lvl=4; h,r-ind=1,1
        [3,3]((6,19,23),(7,24,29),(11,38,46)); lvl=4; h,r-ind=1,1
        [3,3]((6,19,23),(4,14,17),(11,38,46)); lvl=4; h,r-ind=1,1
    [3,3]((5,14,17),(2,9,11),(6,19,23)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,5,6),(2,6,7),(3,10,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(2,6,7),(3,10,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,14,17),(2,5,6),(6,19,23)); lvl=2; h,r-ind=1,1
  [3,3]((3,17,21),(2,9,11),(1,5,6)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(3,17,21),(5,14,17),(2,9,11)); lvl=1; h,r-ind=1,1
    [3,3]((3,13,16),(2,9,11),(6,22,27)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,11),(2,9,11),(6,22,27)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,9,11),(6,22,27)); lvl=2; h,r-ind=1,1
    [3,3]((5,14,17),(3,9,11),(2,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(5,14,17),(3,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,13,16),(6,22,27)); lvl=2; h,r-ind=1,1
    [3,3]((3,17,21),(3,13,16),(2,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,17,21),(3,13,16)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(5,14,17),(2,5,6)); lvl=1; h,r-ind=1,1
  [4,3]((2,7,7),(1,5,6),(1,6,7),(0,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((3,16,18),(1,5,6),(1,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(3,16,18),(1,5,5),(1,6,7)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((1,5,5),(3,17,18),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(3,17,18),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(3,16,18),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(3,16,18),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(1,5,5),(3,17,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,6),(3,17,18)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,7),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(1,5,5)); lvl=3; h,r-ind=1,1
    [4,3]((3,16,18),(1,5,5),(1,4,4),(1,5,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,10,11),(1,5,5),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,11),(1,5,6),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,18),(2,10,11),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,18),(2,10,11),(1,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,7),(1,4,4),(1,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,7),(0,1,0),(1,4,4)); lvl=2; h,r-ind=1,1
  [3,3]((3,17,21),(1,5,6),(1,6,7)); lvl=1; h,r-ind=1,1
```

21.45 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,19,21)); lvl=0; h,r-ind=21,147
  [4,3]((3,11,12),(2,7,7),(1,1,1),(6,29,31)); lvl=1; h,r-ind=1,1
    [4,3]((3,13,14),(3,14,15),(1,3,3),(2,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((4,16,17),(1,3,3),(3,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,14),(4,16,17),(3,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,16,17),(2,5,5),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,14),(4,16,17),(2,5,5)); lvl=3; h,r-ind=1,1
    [4,3]((3,11,12),(3,13,14),(1,1,1),(2,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,13,14),(1,2,2),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,13),(3,13,14),(1,2,2)); lvl=3; h,r-ind=1,1
      [4,3]((3,11,12),(3,12,13),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
        [3,3]((3,12,13),(1,2,2),(4,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(4,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,12),(1,1,1),(4,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,12),(3,12,13),(4,13,14)); lvl=4; h,r-ind=1,1
    [3,3]((4,18,19),(3,14,15),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,18,19),(2,7,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,18,19),(6,29,31),(3,14,15)); lvl=2; h,r-ind=1,1
  [4,3]((2,11,12),(3,11,12),(2,10,11),(6,29,31)); lvl=1; h,r-ind=1,1
    [4,3]((2,10,11),(11,55,60),(3,11,12),(3,13,14)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((2,10,11),(7,33,36),(7,34,37),(11,55,60)); lvl=3; h,r-ind=1,2
        [3,3]((7,34,37),(9,44,48),(7,33,36)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(9,44,48),(7,33,36)); lvl=4; h,r-ind=1,1
        [3,3]((11,55,60),(7,34,37),(9,44,48)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(11,55,60),(9,44,48)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((7,33,36),(3,13,14),(7,34,37)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((3,12,13),(7,33,36),(3,13,14)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((2,10,11),(3,12,13),(3,11,12),(7,33,36)); lvl=3; h,r-ind=1,2
        [3,3]((5,22,24),(3,11,12),(3,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((7,33,36),(5,22,24),(3,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(7,33,36),(5,22,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(5,22,24),(3,11,12)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,12),(3,14,15),(11,55,60),(3,13,14)); lvl=2; h,r-ind=1,1
      [3,3]((3,14,15),(5,24,26),(3,13,14)); lvl=3; h,r-ind=1,1
      [4,3]((7,34,37),(14,69,75),(5,24,26),(3,13,14)); lvl=3; h,r-ind=1,1
        [3,3]((14,69,75),(12,58,63),(5,24,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,14),(12,58,63),(5,24,26)); lvl=4; h,r-ind=1,1
        [3,3]((7,34,37),(3,13,14),(12,58,63)); lvl=4; h,r-ind=1,1
        [3,3]((7,34,37),(14,69,75),(12,58,63)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,12),(11,55,60),(7,34,37),(14,69,75)); lvl=3; h,r-ind=1,1
        [3,3]((7,34,37),(11,55,60),(9,45,49)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(11,55,60),(9,45,49)); lvl=4; h,r-ind=1,1
        [3,3]((14,69,75),(7,34,37),(9,45,49)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(14,69,75),(9,45,49)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,12),(3,14,15),(5,24,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,12),(14,69,75),(5,24,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,12),(3,14,15),(6,29,31)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,12),(2,10,11),(11,55,60)); lvl=2; h,r-ind=1,1
  [3,3]((3,19,21),(2,11,12),(2,10,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,19,21),(2,10,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,11,12),(2,10,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,11,12),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,20,21),(2,7,7),(6,29,31)); lvl=1; h,r-ind=1,1
    [4,3]((4,18,19),(6,29,31),(3,15,16),(1,4,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,15,16),(6,29,31),(7,33,35)); lvl=3; h,r-ind=1,1
      [3,3]((4,18,19),(6,29,31),(7,33,35)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(4,18,19),(7,33,35)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(3,15,16),(7,33,35)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,5),(3,17,18),(3,15,16),(1,4,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,4),(5,25,26),(3,15,16),(3,16,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,25,26),(4,20,21),(3,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,15,16),(4,20,21),(3,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(5,25,26),(4,20,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,15,16),(1,4,4),(4,20,21)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,5),(5,25,26),(3,17,18),(3,16,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,25,26),(4,21,22),(3,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,18),(4,21,22),(3,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(3,17,18),(4,21,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(5,25,26),(4,21,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(1,4,4),(5,25,26)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,7),(1,5,5),(3,20,21),(3,17,18)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,6),(1,5,5),(6,37,39),(3,17,18)); lvl=3; h,r-ind=1,1
        [4,3]((5,29,30),(3,18,19),(1,5,5),(3,17,18)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,18,19),(3,17,18),(4,23,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(3,17,18),(4,23,24)); lvl=5; h,r-ind=1,1
          [3,3]((5,29,30),(3,18,19),(4,23,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(5,29,30),(4,23,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(5,29,30),(3,18,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(3,18,19),(6,37,39)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(5,29,30),(1,5,5)); lvl=4; h,r-ind=1,1
      [4,3]((3,20,21),(1,7,7),(1,6,6),(6,37,39)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,6),(1,7,7),(5,32,33)); lvl=4; h,r-ind=1,1
        [4,3]((3,20,21),(3,19,20),(1,7,7),(5,32,33)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,19,20),(5,32,33),(4,26,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(5,32,33),(4,26,27)); lvl=5; h,r-ind=1,1
          [3,3]((3,20,21),(1,7,7),(4,26,27)); lvl=5; h,r-ind=1,1
          [3,3]((3,20,21),(3,19,20),(4,26,27)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,20),(1,6,6),(5,32,33)); lvl=4; h,r-ind=1,1
        [3,3]((6,37,39),(3,19,20),(1,6,6)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,7,7),(1,5,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,7,7),(4,18,19),(1,4,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,7,7),(1,4,4)); lvl=2; h,r-ind=1,1
[4,3]((3,19,21),(2,11,12),(3,20,21),(6,29,31)); lvl=1; h,r-ind=1,1
  [4,3]((4,23,25),(2,11,12),(3,15,16),(6,29,31)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,11,12),(6,29,31),(5,26,28)); lvl=3; h,r-ind=1,1
    [3,3]((3,15,16),(6,29,31),(5,26,28)); lvl=3; h,r-ind=1,1
    [3,3]((4,23,25),(2,11,12),(5,26,28)); lvl=3; h,r-ind=1,1
    [3,3]((3,15,16),(4,23,25),(5,26,28)); lvl=3; h,r-ind=1,1
  [4,3]((2,12,13),(3,17,18),(4,23,25),(3,15,16)); lvl=2; h,r-ind=1,1
    [4,3]((2,12,13),(3,17,18),(7,39,42),(3,16,17)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,28,30),(3,17,18),(3,16,17)); lvl=4; h,r-ind=1,1
      [3,3]((7,39,42),(5,28,30),(3,16,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,13),(7,39,42),(5,28,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,13),(5,28,30),(3,17,18)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((3,15,16),(7,39,42),(3,16,17)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((4,23,25),(3,15,16),(7,39,42)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((4,23,25),(2,12,13),(7,39,42)); lvl=3; h,r-ind=1,1
    [3,3]((3,19,21),(2,12,13),(4,23,25)); lvl=2; h,r-ind=1,1
    [4,3]((2,13,14),(3,20,21),(2,12,13),(3,17,18)); lvl=2; h,r-ind=1,1
      [4,3]((9,56,60),(2,12,13),(6,37,39),(3,17,18)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((3,18,19),(12,73,78),(2,12,13),(3,17,18)); lvl=4; h,r-ind=1,3
          [3,3]((5,30,32),(12,73,78),(2,12,13)); lvl=5; h,r-ind=1,1
          [3,3]((3,17,18),(5,30,32),(2,12,13)); lvl=5; h,r-ind=1,1
          [3,3]((3,18,19),(3,17,18),(5,30,32)); lvl=5; h,r-ind=1,1
          [3,3]((3,18,19),(5,30,32),(12,73,78)); lvl=5; h,r-ind=1,1
        [3,3]((5,31,33),(3,18,19),(12,73,78)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((5,31,33),(6,37,39),(3,18,19)); lvl=4; h,r-ind=1,1
        [4,3]((9,56,60),(5,31,33),(12,73,78),(2,12,13)); lvl=4; h,r-ind=1,3
          [3,3]((7,43,46),(5,31,33),(12,73,78)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,13),(7,43,46),(12,73,78)); lvl=5; h,r-ind=1,1
          [3,3]((9,56,60),(7,43,46),(5,31,33)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,13),(9,56,60),(7,43,46)); lvl=5; h,r-ind=1,1
      [4,3]((2,13,14),(9,56,60),(3,20,21),(6,37,39)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,19,20),(6,37,39),(5,31,33)); lvl=4; h,r-ind=1,1
        [3,3]((3,19,20),(12,76,81),(5,31,33)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((2,13,14),(9,56,60),(12,76,81),(5,31,33)); lvl=4; h,r-ind=1,3
          [3,3]((9,56,60),(7,44,47),(5,31,33)); lvl=5; h,r-ind=1,1
          [3,3]((12,76,81),(7,44,47),(5,31,33)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,14),(12,76,81),(7,44,47)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,14),(9,56,60),(7,44,47)); lvl=5; h,r-ind=1,1
        [4,3]((2,13,14),(3,20,21),(3,19,20),(12,76,81)); lvl=4; h,r-ind=1,3
          [3,3]((3,20,21),(5,32,34),(3,19,20)); lvl=5; h,r-ind=1,1
          [3,3]((12,76,81),(5,32,34),(3,19,20)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,14),(12,76,81),(5,32,34)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,14),(3,20,21),(5,32,34)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,14),(9,56,60),(2,12,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,19,21),(2,13,14),(2,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,19,21),(4,23,25),(2,11,12)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,7,7),(1,1,1)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

21.46 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,20,21)); lvl=0; h,r-ind=21,147
  [3,3]((2,7,7),(0,1,0),(1,1,1)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((3,20,21),(2,7,7),(1,1,1)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(3,20,21),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,7),(0,1,0),(1,7,7)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((3,20,21),(2,7,7),(1,7,7)); lvl=1; h,r-ind=7,7; optimized-h
```

21.47 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,4,21)); lvl=0; h,r-ind=21,441
  [3,3]((1,0,0),(1,1,3),(1,1,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,1,3),(1,1,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,4,21),(0,1,0),(1,1,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,4,21),(1,0,0),(1,1,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,3)); lvl=1; h,r-ind=3,9; optimized-h
```

21.48 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,5,21)); lvl=0; h,r-ind=21,441
  [5,3]((1,1,4),(2,3,9),(1,2,3),(1,2,4),(2,2,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,3),(2,3,7),(1,2,3),(4,7,14)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,10),(2,3,7),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,10),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,5,10),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,3),(3,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(4,7,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(2,3,8),(2,3,7),(4,7,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,11),(2,3,8),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,14),(3,5,11),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(4,7,14),(3,5,11)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,2,4),(3,5,11),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(1,2,4),(2,3,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,4),(1,1,3),(2,3,8),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,8),(2,3,7),(3,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,7),(3,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(2,3,8),(3,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,4),(3,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(1,1,4),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(2,2,5),(1,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(1,2,3),(2,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(0,1,0),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,5),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(1,1,2),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(0,1,0)); lvl=2; h,r-ind=3,9; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,5),(1,0,0),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,4),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,1,4),(2,3,9),(2,3,10),(3,4,15)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,14),(2,3,9),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,15),(3,4,14),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(3,4,15),(3,4,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(3,4,14),(2,3,9)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,9),(1,2,4),(2,3,10)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,9),(4,7,18)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(2,3,10),(2,3,9),(4,7,18)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,10),(3,5,14),(2,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,18),(3,5,14),(2,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,10),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,18),(1,2,5),(3,5,14)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,5),(1,2,4),(4,7,18)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,9),(1,2,5),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,9),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,9),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(0,1,0),(2,4,9)); lvl=3; h,r-ind=1,1
  [3,3]((4,5,21),(0,1,0),(2,3,10)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,5,21),(2,3,10),(3,4,15)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,21),(1,1,4),(3,4,15)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((1,0,0),(4,5,21),(1,1,4)); lvl=1; h,r-ind=1,1
```

21.49 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,6,21)); lvl=0; h,r-ind=21,147
  [4,3]((3,5,14),(5,8,24),(1,2,5),(3,5,15)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,24),(3,5,15),(6,10,29)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(3,5,15),(6,10,29)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,14),(1,2,5),(6,10,29)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,14),(5,8,24),(6,10,29)); lvl=2; h,r-ind=1,1
  [3,3]((4,6,21),(1,2,5),(3,5,15)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,6,21),(1,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,10),(4,6,19),(5,8,24),(3,5,15)); lvl=1; h,r-ind=1,1
    [3,3]((7,11,34),(5,8,24),(4,6,19)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(7,11,34),(4,6,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,15),(7,11,34),(5,8,24)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(3,5,15),(7,11,34)); lvl=2; h,r-ind=1,1
  [3,3]((4,6,21),(2,3,10),(3,5,15)); lvl=1; h,r-ind=1,1
  [4,3]((5,7,22),(3,4,13),(2,3,10),(4,6,19)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,13),(2,3,10),(7,10,32)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,19),(2,3,10),(7,10,32)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,22),(3,4,13),(7,10,32)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,19),(5,7,22),(7,10,32)); lvl=2; h,r-ind=1,1
  [4,3]((4,6,21),(5,6,21),(3,4,13),(2,3,10)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,13),(4,5,17),(6,8,27)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,14),(11,15,51),(4,5,17),(6,8,27)); lvl=2; h,r-ind=1,1
      [3,3]((11,15,51),(9,12,41),(6,8,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,17),(9,12,41),(6,8,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,14),(4,5,17),(9,12,41)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,14),(11,15,51),(9,12,41)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,14),(5,6,21),(4,5,17)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,10),(11,15,51),(3,4,13),(6,8,27)); lvl=2; h,r-ind=1,1
      [3,3]((8,11,37),(3,4,13),(6,8,27)); lvl=3; h,r-ind=1,1
      [3,3]((11,15,51),(8,11,37),(6,8,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(11,15,51),(8,11,37)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(8,11,37),(3,4,13)); lvl=3; h,r-ind=1,1
    [4,3]((4,6,21),(3,4,14),(2,3,10),(11,15,51)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,4,14),(5,7,24),(11,15,51)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(5,7,24),(11,15,51)); lvl=3; h,r-ind=1,1
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      [3,3]((4,6,21),(2,3,10),(5,7,24)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,21),(3,4,14),(5,7,24)); lvl=3; h,r-ind=1,1
  [7,3]((2,3,8),(5,7,22),(3,4,12),(3,5,14),(3,5,13),(4,6,19),(5,8,24)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,19),(2,3,9),(5,7,22)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(2,3,9),(5,7,22)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(3,4,12),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(3,5,13),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,19),(2,3,9),(5,8,24)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,14),(2,3,9),(5,8,24)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,13),(3,5,14),(2,3,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,3),(5,7,22),(3,4,12),(3,4,13)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,12),(5,7,22),(6,8,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,13),(5,7,22),(6,8,25)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,12),(6,8,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,13),(1,1,3),(6,8,25)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(5,6,21),(1,1,3),(3,4,13)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,7),(5,6,21),(4,5,17)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,7),(8,9,30),(5,6,20),(4,5,17)); lvl=2; h,r-ind=1,1
      [3,3]((7,8,27),(5,6,20),(8,9,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,7),(7,8,27),(8,9,30)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,27),(4,5,17),(5,6,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,7),(7,8,27),(4,5,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,13),(5,6,20),(4,5,17)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(8,9,30),(3,4,13),(5,6,20)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,23),(5,6,20),(8,9,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(6,7,23),(8,9,30)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,23),(3,4,13),(5,6,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(6,7,23),(3,4,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,3),(1,0,0),(2,2,7),(8,9,30)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((1,0,0),(3,3,10),(2,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,30),(3,3,10),(2,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(8,9,30),(3,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,0,0),(3,3,10)); lvl=3; h,r-ind=1,1
  [5,3]((1,1,3),(1,1,2),(2,3,8),(3,4,12),(4,6,11)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(4,6,11),(2,3,6)); lvl=2; h,r-ind=1,1
    [5,3]((1,1,2),(6,7,17),(6,8,19),(4,6,13),(2,3,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,2),(8,10,23),(4,5,12),(6,7,17)); lvl=3; h,r-ind=1,1
        [3,3]((8,10,23),(5,6,14),(4,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,17),(5,6,14),(4,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(8,10,23),(5,6,14)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,17),(1,1,2),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,23),(3,4,9),(4,5,12)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,9),(6,8,19),(5,7,16),(4,5,12)); lvl=3; h,r-ind=1,1
        [3,3]((9,12,28),(6,8,19),(5,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(9,12,28),(5,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,12),(9,12,28),(6,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(4,5,12),(9,12,28)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(5,7,16),(4,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,4,9),(4,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(8,10,23),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(3,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,1,3),(6,7,17)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(3,4,11),(6,7,17),(6,8,19)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,4,10),(4,5,12),(9,11,28)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,1,3),(3,4,11),(3,4,10),(9,11,28)); lvl=3; h,r-ind=1,3
        [3,3]((4,5,13),(3,4,10),(3,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(4,5,13),(3,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,28),(4,5,13),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(9,11,28),(4,5,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,3),(6,7,17),(4,5,12),(9,11,28)); lvl=3; h,r-ind=1,3
        [3,3]((4,5,12),(5,6,15),(6,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(5,6,15),(6,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,28),(4,5,12),(5,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(9,11,28),(5,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(4,5,12),(6,8,19)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,11),(6,8,19),(2,3,8),(4,6,13)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((2,3,7),(5,7,16),(4,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(2,3,7),(5,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(6,8,19),(5,7,16)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,11),(3,4,10),(2,3,8),(2,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,7),(2,3,8),(5,7,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,11),(2,3,8),(5,7,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,10),(3,4,11),(5,7,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,10),(2,3,7),(5,7,18)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,11),(3,4,12),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,11),(3,4,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [5,3]((0,1,0),(3,5,14),(1,2,4),(3,5,13),(1,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((5,9,22),(3,5,13),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,9),(6,11,27),(5,9,22),(1,2,4)); lvl=2; h,r-ind=1,1
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      [3,3]((5,9,22),(6,11,27),(7,13,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(6,11,27),(7,13,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,9),(7,13,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(5,9,22),(7,13,31)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,9),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((5,9,23),(2,4,9),(6,11,27),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((7,13,32),(2,4,9),(6,11,27)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,23),(7,13,32),(6,11,27)); lvl=3; h,r-ind=1,1
      [3,3]((7,13,32),(1,2,5),(2,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,23),(7,13,32),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,9),(1,2,5)); lvl=2; h,r-ind=1,1
    [5,3]((5,9,23),(6,11,27),(5,9,22),(3,5,14),(3,5,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,13),(4,7,18),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,23),(4,7,18),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,23),(6,11,27),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,22),(3,5,13),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,27),(5,9,22),(4,7,18)); lvl=3; h,r-ind=1,1
    [3,3]((5,9,23),(1,2,5),(3,5,14)); lvl=2; h,r-ind=1,1
  [5,3]((2,3,8),(4,6,11),(1,2,3),(1,2,4),(3,5,13)); lvl=1; h,r-ind=1,1
    [3,3]((6,11,21),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((6,10,21),(6,11,21),(3,5,12),(1,2,4)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((4,7,14),(6,11,21),(1,2,4),(9,16,33)); lvl=3; h,r-ind=1,3
        [3,3]((5,9,18),(6,11,21),(1,2,4)); lvl=4; h,r-ind=1,1
        [3,3]((9,16,33),(5,9,18),(1,2,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,14),(9,16,33),(5,9,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,14),(5,9,18),(6,11,21)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,11),(3,5,12),(1,2,4),(9,16,33)); lvl=3; h,r-ind=1,3
        [3,3]((4,7,15),(1,2,4),(3,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,11),(4,7,15),(3,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((9,16,33),(4,7,15),(1,2,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,11),(9,16,33),(4,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,11),(4,7,14),(9,16,33)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((6,10,21),(3,5,11),(4,7,14)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,13),(3,5,12),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(3,5,13),(3,5,12)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,8),(4,6,13),(6,10,21),(3,5,12)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((3,5,11),(6,10,21),(5,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(3,5,11),(5,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(4,6,13),(5,8,17)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,12),(2,3,8),(2,3,7),(3,5,11)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,8),(2,3,7),(5,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,11),(2,3,7),(5,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,12),(2,3,8),(5,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,11),(3,5,12),(5,8,19)); lvl=4; h,r-ind=1,1
    [5,3]((4,6,13),(2,3,6),(6,10,21),(6,11,21),(1,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((8,14,27),(4,7,14),(6,11,21),(1,2,3)); lvl=3; h,r-ind=1,1
        [3,3]((5,9,17),(4,7,14),(6,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,17),(1,2,3),(6,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((8,14,27),(5,9,17),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((8,14,27),(5,9,17),(4,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,10),(8,14,27),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,5,10),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(2,3,6),(3,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,10),(8,14,27),(4,7,14)); lvl=3; h,r-ind=1,1
      [4,3]((5,8,17),(3,5,10),(6,10,21),(4,7,14)); lvl=3; h,r-ind=1,1
        [3,3]((3,5,10),(4,7,14),(9,15,31)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,21),(4,7,14),(9,15,31)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,17),(6,10,21),(9,15,31)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,17),(3,5,10),(9,15,31)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,13),(5,8,17),(3,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,11),(2,3,6),(1,2,3)); lvl=2; h,r-ind=1,1
  [5,3]((0,1,0),(1,0,0),(1,1,2),(4,6,11),(1,2,3)); lvl=1; h,r-ind=1,1
    [6,3]((4,6,9),(3,5,7),(2,3,3),(4,5,7),(1,2,2),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,7),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(4,6,9),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,5,7),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(4,5,7),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(1,2,2),(2,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,5),(4,6,9),(3,4,6)); lvl=2; h,r-ind=1,1
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      [3,3]((3,4,6),(4,6,9),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,6),(5,7,11)); lvl=3; h,r-ind=1,1
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    [3,3]((1,2,3),(2,3,5),(4,6,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,3,5),(4,6,9),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(4,6,9),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(4,6,9),(5,8,12)); lvl=3; h,r-ind=1,1
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      [3,3]((1,2,3),(2,3,5),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(1,2,3),(5,8,12)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(3,5,7),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,7),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,5,7),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,2),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(2,2,3),(4,5,7),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,7),(5,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(4,5,7),(5,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,6),(5,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(5,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(2,2,3),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,8),(3,4,5),(4,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,2,3),(5,6,8),(8,9,12),(4,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((7,8,11),(8,9,12),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(7,8,11),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(4,5,7),(7,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(7,8,11),(8,9,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,1),(1,0,0),(2,2,3),(8,9,12)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,12),(2,2,3),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(8,9,12),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,1),(5,6,8),(8,9,12),(3,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((6,7,9),(8,9,12),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(6,7,9),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(6,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(6,7,9),(8,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,0,0),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=1; h,r-ind=1,1
```

21.50 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,7,21)); lvl=0; h,r-ind=21,63
  [4,3]((1,2,4),(2,3,9),(1,1,3),(1,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,9),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,9),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,5),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,1,3),(2,3,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(1,2,4),(1,2,3),(1,1,3)); lvl=1; h,r-ind=1,2
    [3,3]((1,2,3),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((4,7,21),(2,3,9),(1,2,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(4,7,21),(1,2,5)); lvl=1; h,r-ind=1,1
```

21.51 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,8,21)); lvl=0; h,r-ind=21,441
  [3,3]((2,3,7),(1,2,4),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,7),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,7,18),(1,0,0),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,8,21),(4,7,18),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,8,21),(4,7,18),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(1,2,4),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,8,21),(0,1,0),(1,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,7),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,2),(2,3,7),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
```

21.52 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,10,21)); lvl=0; h,r-ind=21,441
  [5,3]((2,3,6),(2,5,7),(2,5,9),(1,2,3),(1,2,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,6),(2,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(2,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,7),(1,2,3),(5,11,18),(3,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,14),(5,11,18),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(4,9,14),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,11),(4,9,14),(5,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,11),(2,5,7),(4,9,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(6,13,22),(5,11,19),(2,4,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,19),(6,13,22),(7,15,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(6,13,22),(7,15,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,7),(7,15,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(5,11,19),(7,15,26)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(5,11,18),(6,13,22),(2,4,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,18),(6,13,22),(7,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(6,13,22),(7,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,18),(7,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(1,2,3),(7,15,25)); lvl=3; h,r-ind=1,1
    [6,3]((2,5,8),(3,7,12),(5,11,18),(3,7,11),(6,13,22),(5,11,19)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,15),(3,7,11),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(4,9,15),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,19),(3,7,12),(4,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,22),(5,11,19),(4,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,18),(4,9,15),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,18),(6,13,22),(4,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,7),(2,5,8),(3,7,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,9),(3,7,12),(1,2,4),(5,11,19)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,16),(3,7,12),(5,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(4,9,16),(5,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(4,9,16),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(4,9,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(2,5,9),(3,7,12)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,9),(4,10,19),(3,7,14),(1,2,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,14),(4,10,19),(5,12,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(4,10,19),(5,12,23)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,9),(5,12,23)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(3,7,14),(5,12,23)); lvl=2; h,r-ind=1,1
  [3,3]((4,10,21),(3,7,14),(1,2,4)); lvl=1; h,r-ind=1,1
  [4,3]((4,10,21),(4,10,19),(3,8,15),(3,7,14)); lvl=1; h,r-ind=1,4
    [3,3]((3,8,15),(2,5,10),(4,10,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,14),(2,5,10),(4,10,19)); lvl=2; h,r-ind=1,1
    [3,3]((4,10,21),(3,7,14),(2,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,10,21),(3,8,15),(2,5,10)); lvl=2; h,r-ind=1,1
  [5,3]((0,1,0),(1,3,3),(2,5,7),(2,5,9),(1,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,7),(1,3,4),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,4),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(2,5,8),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,8),(1,3,4),(2,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,4),(2,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,9),(4,10,19),(1,3,5),(3,8,15)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,15),(4,10,19),(5,13,24)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(4,10,19),(5,13,24)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,9),(5,13,24)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(3,8,15),(5,13,24)); lvl=2; h,r-ind=1,1
  [3,3]((4,10,21),(1,3,5),(3,8,15)); lvl=1; h,r-ind=1,1
  [3,3]((4,10,21),(0,1,0),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,10,21),(2,3,6),(1,2,4)); lvl=1; h,r-ind=1,1
  [5,3]((1,1,2),(2,3,6),(2,4,5),(2,2,3),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(5,8,12),(6,9,14),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,3),(7,11,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(5,7,11),(6,9,14),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,7,11),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,1,2),(7,10,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(3,5,7),(1,2,3),(5,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
    [6,3]((5,7,11),(3,4,6),(2,3,4),(3,5,7),(5,8,12),(6,9,14)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((3,5,7),(4,6,9),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(4,6,9),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(4,6,9),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(4,6,9),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(4,6,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(5,7,11),(3,4,6),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,8),(5,7,11),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(4,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,8),(5,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(2,3,4),(3,5,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,3),(2,5,7),(2,4,5),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(2,4,5),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(2,5,6),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(1,3,3),(2,5,6)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(0,1,0),(1,3,3),(2,4,5),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(2,3,4),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(2,4,5),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,6),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(3,5,6),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,6),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(0,1,0),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((4,10,21),(1,1,2),(2,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,10,21),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
```

21.53 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,12,21)); lvl=0; h,r-ind=21,147
  [3,3]((1,0,0),(5,12,21),(1,3,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,12,21),(5,12,21),(1,3,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(1,2,3),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(1,2,3),(1,3,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,3,3),(1,3,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,12,21),(0,1,0),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,3),(1,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

21.54 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,14,21)); lvl=0; h,r-ind=21,63
  [6,3]((2,6,9),(1,2,2),(1,2,3),(1,3,3),(2,7,9),(4,14,19)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(1,2,3),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(3,10,14),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(4,14,19),(3,10,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,9),(1,3,4),(4,14,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,7,9),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(1,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,5),(3,11,15),(2,7,9),(4,14,19)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,9),(4,14,19),(5,18,24)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,15),(4,14,19),(5,18,24)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(3,11,15),(5,18,24)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,9),(5,18,24)); lvl=2; h,r-ind=1,1
  [4,3]((4,14,21),(2,6,9),(3,11,15),(4,14,19)); lvl=1; h,r-ind=2,4
    [3,3]((2,7,10),(4,14,19),(3,10,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,10),(2,6,9),(3,10,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,15),(2,7,10),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,14,21),(3,10,15),(2,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,15),(2,7,10),(4,14,19)); lvl=2; h,r-ind=1,1
    [3,3]((4,14,21),(3,11,15),(2,7,10)); lvl=2; h,r-ind=1,1
```

```
  [3,3]((4,14,21),(1,4,5),(3,11,15)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,14,21),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(1,4,5),(1,3,3),(2,7,9)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,9),(3,11,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(3,11,12),(2,7,9),(3,11,13)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,8),(3,11,13),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,8),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(1,3,3),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(2,7,8),(3,11,13)); lvl=3; h,r-ind=1,1
    [4,3]((3,11,12),(1,4,5),(1,4,4),(3,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,4),(1,4,5),(4,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,13),(1,4,5),(4,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,12),(1,4,4),(4,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,13),(3,11,12),(4,15,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(3,11,12),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(1,4,4)); lvl=2; h,r-ind=1,1
```

21.55 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,15,21)); lvl=0; h,r-ind=21,147
  [3,3]((1,2,2),(1,0,0),(2,4,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,3,4),(1,0,0),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((5,15,21),(1,3,4),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((4,15,21),(5,15,21),(3,11,15),(1,3,4)); lvl=1; h,r-ind=1,2
    [3,3]((3,10,14),(1,3,4),(5,15,21)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,14),(6,21,29),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((6,21,29),(3,11,15),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,21),(6,21,29),(3,11,15)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((3,10,14),(4,15,21),(6,21,29)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
  [5,3]((1,3,4),(2,7,9),(1,2,2),(1,3,3),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,3),(3,9,11),(2,7,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,4),(3,9,11),(2,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(3,9,11),(4,11,13),(3,8,9)); lvl=2; h,r-ind=1,1
      [4,3]((2,6,7),(9,25,29),(3,9,11),(4,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,11,13),(9,25,29),(6,17,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(9,25,29),(6,17,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,11),(4,11,13),(6,17,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(3,9,11),(6,17,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,9),(9,25,29),(4,11,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(2,6,7),(3,8,9),(9,25,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,14,16),(9,25,29),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(5,14,16),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(1,3,3),(5,14,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(5,14,16),(9,25,29)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,4),(3,9,11),(2,5,6),(4,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,9,11),(4,11,13),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(4,11,13),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,9,11),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(1,3,4),(5,14,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,6),(4,11,13),(3,8,9),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((5,13,15),(3,8,9),(4,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(5,13,15),(4,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,13,15),(3,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(3,8,9),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((3,11,15),(1,3,4),(2,7,9)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,4,5),(2,7,9),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,9),(3,11,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(3,11,12),(2,7,9),(3,11,13)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,8),(3,11,13),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,8),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(1,3,3),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(2,7,8),(3,11,13)); lvl=3; h,r-ind=1,1
    [4,3]((3,11,12),(1,4,5),(1,4,4),(3,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,4),(1,4,5),(4,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,13),(1,4,5),(4,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,12),(1,4,4),(4,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,13),(3,11,12),(4,15,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(3,11,12),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(1,4,4)); lvl=2; h,r-ind=1,1
```

```
  [3,3]((4,15,21),(0,1,0),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,11,15),(1,4,5),(2,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((4,15,21),(3,11,15),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
```

21.56 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,18,21)); lvl=0; h,r-ind=21,147
  [4,3]((1,5,5),(1,3,3),(2,8,9),(2,9,10)); lvl=1; h,r-ind=1,1
    [4,3]((1,4,4),(5,21,23),(1,3,3),(2,8,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,21,23),(3,12,13),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,12,13),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(3,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(5,21,23),(3,12,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,10),(5,21,23),(2,8,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,5),(1,4,4),(2,9,10),(5,21,23)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,4,4),(5,21,23),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(5,21,23),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,4,4),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(1,5,5),(3,13,14)); lvl=3; h,r-ind=1,1
  [3,3]((4,18,21),(2,8,9),(2,9,10)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,18,21),(1,5,5),(2,9,10)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,18,21),(1,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,5),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,1,1),(2,7,8),(1,3,3),(2,8,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,8),(2,8,9),(5,17,19)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(1,2,2),(2,8,9),(5,17,19)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,10,11),(5,17,19),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,10,11),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,11),(2,8,9),(5,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,10,11),(2,8,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(1,2,2),(2,7,8),(5,17,19)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,9,10),(5,17,19),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,9,10),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,10),(2,7,8),(5,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,9,10),(2,7,8)); lvl=3; h,r-ind=1,1
  [4,3]((4,18,21),(5,18,21),(2,7,8),(2,8,9)); lvl=1; h,r-ind=1,1
    [4,3]((3,12,14),(10,39,45),(5,18,21),(2,7,8)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((5,19,22),(10,39,45),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,21),(5,19,22),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,14),(5,18,21),(5,19,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,14),(5,19,22),(10,39,45)); lvl=3; h,r-ind=1,1
    [4,3]((2,8,9),(5,20,23),(10,39,45),(2,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((5,20,23),(7,27,31),(10,39,45)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(7,27,31),(10,39,45)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(5,20,23),(7,27,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(2,8,9),(7,27,31)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,15),(2,8,9),(5,20,23)); lvl=2; h,r-ind=1,1
    [4,3]((3,12,14),(3,13,15),(5,20,23),(10,39,45)); lvl=2; h,r-ind=1,1
      [3,3]((5,20,23),(3,13,15),(8,32,37)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,14),(3,13,15),(8,32,37)); lvl=3; h,r-ind=1,1
      [3,3]((10,39,45),(3,12,14),(8,32,37)); lvl=3; h,r-ind=1,1
      [3,3]((10,39,45),(5,20,23),(8,32,37)); lvl=3; h,r-ind=1,1
    [3,3]((4,18,21),(3,12,14),(3,13,15)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,1),(5,18,21),(2,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(5,14,16),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(5,14,16),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(5,18,21),(2,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,6,7),(1,1,1),(5,14,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,6,7),(5,14,16),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(5,14,16),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,6,7),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,7,8)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
```

21.57 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,20,21)); lvl=0; h,r-ind=21,441
  [3,3]((0,1,0),(1,5,5),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,20,21),(1,5,5),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,1,1),(0,1,0),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,20,21),(1,1,1),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
```

```
  [3,3]((1,0,0),(4,20,21),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,20,21),(0,1,0),(1,5,5)); lvl=1; h,r-ind=1,1
```

21.58 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,5,21)); lvl=0; h,r-ind=21,441
  [3,3]((1,1,4),(1,0,0),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,2,5)); lvl=1; h,r-ind=5,25; optimized-h
  [3,3]((0,1,0),(1,1,4),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,5,21),(0,1,0),(1,1,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,21),(1,1,4),(1,0,0)); lvl=1; h,r-ind=1,1
```

21.59 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,7,21)); lvl=0; h,r-ind=21,63
  [6,3]((1,1,3),(3,4,11),(3,5,10),(2,3,6),(5,8,19),(3,5,11)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,7),(5,8,19),(3,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,5,10),(3,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,7),(3,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,6),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(5,8,19),(4,6,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,11),(2,3,7),(4,6,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,11),(1,1,3),(2,3,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,4),(3,5,12),(5,8,19),(3,5,11)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,12),(5,8,19),(6,10,23)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(5,8,19),(6,10,23)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,12),(6,10,23)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(1,2,4),(6,10,23)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,21),(1,2,4),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,7,21),(1,2,4),(3,5,12)); lvl=1; h,r-ind=1,1
  [5,3]((1,2,4),(0,1,0),(3,5,10),(1,2,3),(3,5,11)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(2,4,7),(5,9,17),(6,11,21)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,7),(6,11,21),(7,13,24)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,17),(6,11,21),(7,13,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,7),(7,13,24)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,17),(1,2,3),(7,13,24)); lvl=3; h,r-ind=1,1
    [5,3]((5,9,18),(3,5,11),(3,5,10),(5,9,17),(6,11,21)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,10),(4,7,14),(5,9,17)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,21),(4,7,14),(5,9,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,18),(6,11,21),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(5,9,18),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(3,5,10),(4,7,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(5,9,18),(3,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,10),(5,9,17)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(5,9,18),(2,4,7),(6,11,21)); lvl=2; h,r-ind=1,1
      [3,3]((5,9,18),(6,11,21),(7,13,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(6,11,21),(7,13,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,7),(7,13,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(5,9,18),(7,13,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(0,1,0),(2,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(0,1,0),(2,4,7)); lvl=2; h,r-ind=1,1
  [5,3]((3,5,10),(2,3,6),(4,6,9),(2,4,5),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(9,16,24),(2,4,5),(5,9,13)); lvl=2; h,r-ind=1,1
      [3,3]((9,16,24),(6,11,16),(5,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(6,11,16),(5,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(6,11,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(9,16,24),(6,11,16)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,7),(2,4,5),(5,9,13)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((2,3,5),(3,5,7),(3,5,8),(9,16,24),(5,9,13)); lvl=2; h,r-ind=1,1
      [4,3]((8,14,21),(7,12,18),(4,7,10),(5,9,13)); lvl=3; h,r-ind=1,1
        [3,3]((12,21,31),(4,7,10),(7,12,18)); lvl=4; h,r-ind=1,1
        [3,3]((8,14,21),(12,21,31),(7,12,18)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,13),(12,21,31),(4,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((8,14,21),(5,9,13),(12,21,31)); lvl=4; h,r-ind=1,1
      [3,3]((8,14,21),(9,16,24),(5,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,8),(8,14,21),(9,16,24)); lvl=3; h,r-ind=1,1
      [5,3]((3,5,7),(2,3,5),(7,12,18),(12,20,31),(4,7,10)); lvl=3; h,r-ind=1,1
        [4,3]((9,15,23),(13,22,33),(15,25,38),(7,12,18)); lvl=4; h,r-ind=1,1
          [3,3]((22,37,56),(13,22,33),(15,25,38)); lvl=5; h,r-ind=1,1
          [3,3]((9,15,23),(22,37,56),(15,25,38)); lvl=5; h,r-ind=1,1
          [3,3]((22,37,56),(7,12,18),(13,22,33)); lvl=5; h,r-ind=1,1
          [3,3]((9,15,23),(22,37,56),(7,12,18)); lvl=5; h,r-ind=1,1
        [3,3]((9,15,23),(12,20,31),(7,12,18)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,3,5),(9,15,23),(12,20,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(9,15,23),(15,25,38)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,10),(13,22,33),(7,12,18)); lvl=4; h,r-ind=1,1
      [4,3]((6,10,15),(4,7,10),(13,22,33),(15,25,38)); lvl=4; h,r-ind=1,1
        [3,3]((19,32,48),(13,22,33),(4,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((6,10,15),(19,32,48),(4,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((15,25,38),(19,32,48),(13,22,33)); lvl=5; h,r-ind=1,1
        [3,3]((6,10,15),(15,25,38),(19,32,48)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,5),(6,10,15),(15,25,38)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,7),(6,10,15),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(3,5,7),(6,10,15)); lvl=4; h,r-ind=1,1
    [4,3]((3,5,8),(8,14,21),(7,12,18),(12,20,31)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((10,17,26),(7,12,18),(8,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,8),(10,17,26),(8,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((12,20,31),(10,17,26),(7,12,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,8),(12,20,31),(10,17,26)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,5),(3,5,8),(12,20,31)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,5),(4,6,9),(3,5,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(3,5,9),(3,5,8),(9,16,24)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((3,5,9),(4,7,11),(3,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((9,16,24),(4,7,11),(3,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(9,16,24),(4,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,9),(4,7,11)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,6),(2,3,5),(3,5,9),(3,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,8),(3,5,9),(5,8,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(3,5,9),(5,8,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,6),(5,8,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(3,5,8),(5,8,14)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,10),(1,2,3),(3,5,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,6),(3,5,10),(3,5,9)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=1; h,r-ind=1,1
[4,3]((0,1,0),(1,0,0),(4,6,9),(2,4,5)); lvl=1; h,r-ind=1,1
  [6,3]((3,5,7),(3,5,6),(3,4,5),(4,6,7),(5,6,9),(4,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,7),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,7),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,9),(3,5,7),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(4,6,9),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(4,6,7),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(4,5,7),(2,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,7),(5,6,9),(3,4,6),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,13),(3,4,6),(5,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,7),(7,9,13),(5,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(4,5,7),(7,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(7,9,13),(3,4,6)); lvl=4; h,r-ind=1,1
  [4,3]((3,4,5),(1,1,1),(1,0,0),(5,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(8,9,12),(1,1,1),(1,0,0)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((3,3,4),(1,1,1),(8,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(3,3,4),(8,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,4),(1,0,0),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(3,3,4),(1,0,0)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,5),(8,9,12),(5,6,8),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,9),(8,9,12),(5,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,5),(6,7,9),(5,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,9),(1,1,1),(8,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,5),(6,7,9),(1,1,1)); lvl=4; h,r-ind=1,1
    [4,3]((4,5,7),(2,2,3),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(8,9,12),(7,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,8),(8,9,12),(7,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,7),(5,6,8),(7,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,7),(2,2,3),(7,8,11)); lvl=4; h,r-ind=1,1
    [3,3]((5,6,9),(4,5,7),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(4,5,7),(5,6,8)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,3),(3,4,5),(4,6,7),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(4,6,7),(5,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(4,6,7),(5,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(5,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(3,4,5),(5,7,8)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,2),(3,5,6),(2,3,3),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(4,6,7),(5,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,6),(4,6,7),(5,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(3,5,6),(5,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(5,8,9)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
  [4,3]((2,4,5),(1,2,2),(3,5,7),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(3,5,7),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(4,7,9),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,2),(4,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(4,7,9),(3,5,7)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,3),(2,3,6),(4,6,9)); lvl=1; h,r-ind=3,3
    [3,3]((1,1,2),(1,1,3),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(4,6,9),(5,6,9),(2,3,5)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,5),(6,8,13),(3,4,6),(4,6,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,11),(3,4,6),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(5,7,11),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(5,7,11),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(4,6,9),(5,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,5),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(6,8,13),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(5,6,9)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=2; h,r-ind=1,1
  [5,3]((5,7,21),(3,5,12),(4,5,15),(3,4,11),(5,8,19)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,8),(5,8,19),(4,6,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(3,4,11),(4,6,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(4,5,15),(3,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(2,3,8),(4,5,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(5,7,21),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(3,5,12),(5,8,19)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,21),(2,3,8),(3,5,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,3),(4,5,15),(3,4,11)); lvl=1; h,r-ind=1,1
```

21.60 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,9,21)); lvl=0; h,r-ind=21,147
  [6,3]((2,3,7),(5,9,20),(4,7,15),(5,8,17),(4,7,16),(4,6,13)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,11),(5,8,17),(4,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(2,3,7),(4,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,16),(3,5,11),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,20),(4,7,16),(3,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,15),(3,5,11),(5,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,15),(5,9,20),(3,5,11)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,7),(1,0,0),(1,1,2),(4,6,13)); lvl=1; h,r-ind=1,1
    [3,3]((1,0,0),(3,4,9),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,13),(3,4,9),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(4,6,13),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(1,0,0),(3,4,9)); lvl=2; h,r-ind=1,1
  [3,3]((5,9,21),(2,3,7),(4,7,16)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,2),(2,3,6),(5,8,17),(4,6,13)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,6),(5,8,17),(6,9,19)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,13),(5,8,17),(6,9,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(6,9,19)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,13),(1,1,2),(6,9,19)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,9,21),(5,9,20),(4,7,16)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,4),(5,9,20),(4,7,15)); lvl=1; h,r-ind=1,1
  [3,3]((5,9,21),(1,2,4),(5,9,20)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,9,21),(1,2,4)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,4),(2,3,6),(4,7,15),(5,8,17)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,6),(5,8,17),(6,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,15),(5,8,17),(6,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,6),(6,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,15),(1,2,4),(6,10,21)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,4),(2,3,6),(1,2,3)); lvl=1; h,r-ind=1,1
  [5,3]((1,1,2),(2,3,6),(2,2,3),(1,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(2,4,5),(3,5,7),(5,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,10),(2,4,5),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(2,4,5)); lvl=3; h,r-ind=1,1
    [6,3]((3,4,6),(5,7,11),(6,9,14),(2,3,4),(3,5,7),(5,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(4,6,9),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,6,9),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(5,8,12),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,7),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(2,2,3),(3,4,6),(5,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(4,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(1,1,2),(4,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((6,9,14),(2,3,5),(1,2,3),(5,8,12)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(1,2,3),(7,11,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(5,7,11),(6,9,14),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,7,11),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,1,2),(7,10,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(3,5,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,4),(1,1,1),(2,3,3),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(2,3,4),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
```

21.61 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,10,21)); lvl=0; h,r-ind=21,441
  [5,3]((1,1,2),(1,2,3),(2,3,6),(2,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(1,2,3),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(2,2,3),(3,4,6),(5,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(4,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(1,1,2),(4,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(2,2,3),(3,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,5),(6,9,14),(5,8,12),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((7,11,17),(5,8,12),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(7,11,17),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(7,11,17),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,3),(7,11,17)); lvl=3; h,r-ind=1,1
    [4,3]((5,8,12),(3,5,7),(2,4,5),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(1,2,3),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(3,5,7),(2,4,5)); lvl=2; h,r-ind=1,1
    [6,3]((2,3,4),(6,9,14),(3,4,6),(5,7,11),(5,8,12),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,6),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(3,5,7),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(5,8,12),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,5),(6,9,14),(5,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,5),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(1,1,2),(7,10,16)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,4),(1,1,1),(2,3,3),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(2,3,4),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,4),(1,2,3),(2,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((5,10,21),(1,2,4),(2,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,10,21),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,10,21),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((5,10,21),(1,1,2),(2,3,6)); lvl=1; h,r-ind=1,1
```

21.62 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,12,21)); lvl=0; h,r-ind=21,147
  [7,3]((3,5,8),(3,4,6),(1,2,2),(7,16,26),(5,11,18),(2,5,7),(2,5,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,4),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,8),(1,2,3),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,13),(3,5,8),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,18),(4,8,13),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((7,16,26),(5,11,18),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,11),(7,16,26),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(1,2,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(2,5,5),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(2,5,6),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,11),(2,5,7),(1,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,3,4),(2,5,7),(2,5,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,3),(1,3,4),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(1,3,3),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(2,5,6),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,5),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((5,12,21),(0,1,0),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=1; h,r-ind=1,1
  [5,3]((4,9,15),(2,4,7),(2,3,5),(3,5,8),(5,11,18)); lvl=1; h,r-ind=1,1
    [3,3]((3,6,10),(4,8,13),(3,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(3,6,10),(3,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,7),(2,3,5),(3,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,18),(3,6,10),(4,8,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,15),(5,11,18),(3,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,7),(4,9,15),(3,6,10)); lvl=2; h,r-ind=1,1
  [3,3]((5,12,21),(4,9,15),(2,4,7)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,0,0),(2,3,5),(3,5,8),(3,4,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(7,10,16),(3,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(3,4,6),(7,10,16),(3,5,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,7,11),(3,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(5,7,11),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,16),(5,7,11),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(7,10,16),(5,7,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(2,2,3),(2,3,5),(7,10,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,8),(2,2,3),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(4,5,8),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(4,5,8),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,0,0),(4,5,8)); lvl=3; h,r-ind=1,1
  [3,3]((2,4,7),(1,0,0),(2,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,4,6),(1,2,2)); lvl=1; h,r-ind=4,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((2,5,8),(1,3,4),(7,16,26),(2,5,7)); lvl=1; h,r-ind=1,1
    [4,3]((3,7,11),(1,3,4),(6,15,23),(2,5,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,10,15),(6,15,23),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(4,10,15),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,11),(2,5,7),(4,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,11),(4,10,15),(6,15,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(3,7,11),(6,15,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,8),(3,7,11),(7,16,26)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,8),(1,3,4),(6,15,23)); lvl=2; h,r-ind=1,1
  [4,3]((5,12,21),(4,9,15),(2,5,8),(7,16,26)); lvl=1; h,r-ind=1,1
    [3,3]((4,9,15),(7,16,26),(6,14,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,8),(7,16,26),(6,14,23)); lvl=2; h,r-ind=1,1
    [3,3]((11,26,43),(2,5,8),(6,14,23)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,12),(11,26,43),(2,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,12),(5,12,21),(2,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,12),(11,26,43),(4,9,15),(6,14,23)); lvl=2; h,r-ind=1,1
      [3,3]((11,26,43),(9,21,35),(6,14,23)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((4,9,15),(9,21,35),(6,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(4,9,15),(9,21,35)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(11,26,43),(9,21,35)); lvl=3; h,r-ind=1,1
  [3,3]((5,12,21),(2,5,8),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((4,9,15),(7,16,26),(5,11,18)); lvl=1; h,r-ind=1,1
```

21.63 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,13,21)); lvl=0; h,r-ind=21,441
  [4,3]((3,7,11),(4,10,15),(3,8,12),(2,5,8)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,12),(4,10,15),(6,15,23)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,11),(4,10,15),(6,15,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,8),(3,7,11),(6,15,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,8),(3,8,12),(6,15,23)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,7,11),(2,5,8)); lvl=1; h,r-ind=1,1
  [3,3]((5,13,21),(1,0,0),(2,5,8)); lvl=1; h,r-ind=1,1
  [3,3]((5,13,21),(3,8,12),(2,5,8)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,7),(4,10,15),(3,8,12),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((5,13,19),(3,8,12),(4,10,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(5,13,19),(4,10,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,7),(5,13,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(5,13,19),(3,8,12)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(3,7,11),(2,5,7),(4,10,15)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,7),(4,10,15),(5,12,18)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,11),(4,10,15),(5,12,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,7,11),(5,12,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(5,12,18)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,3),(2,5,7),(2,5,5),(2,3,4),(1,2,2)); lvl=1; h,r-ind=1,1
    [6,3]((3,7,9),(5,11,14),(6,13,16),(2,5,6),(3,7,8),(5,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,11),(5,11,13),(6,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(4,9,11),(6,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(5,11,14),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(4,9,11),(5,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,7,8),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,5,6),(4,9,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(2,5,5),(3,7,8),(5,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,8),(2,5,5),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(1,2,2),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(3,7,8),(4,9,10)); lvl=3; h,r-ind=1,1
    [4,3]((6,13,16),(2,4,5),(1,2,2),(5,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((7,15,18),(1,2,2),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,16),(7,15,18),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(6,13,16),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(7,15,18),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(2,3,4),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(5,11,14),(6,13,16),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,14),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,14),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(7,15,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,7),(3,7,9),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,7),(3,7,9),(5,11,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(1,2,3),(4,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,5),(2,5,6),(3,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(3,7,11)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,5,7),(2,5,5),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(1,3,3),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,3),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,4),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(2,5,6),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,5),(1,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((5,13,21),(0,1,0),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,13,21),(3,8,12),(1,3,4)); lvl=1; h,r-ind=1,1
```

21.64 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,14,21)); lvl=0; h,r-ind=21,63
  [3,3]((1,3,4),(1,2,3),(4,10,15)); lvl=1; h,r-ind=1,1
  [3,3]((5,14,21),(1,3,4),(4,10,15)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(5,14,21),(1,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,2),(2,5,5),(1,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(1,3,4),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,5,6),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,2,3),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,6),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,3,4)); lvl=1; h,r-ind=3,9; optimized-h
```

21.65 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,15,21)); lvl=0; h,r-ind=21,147
  [4,3]((2,4,5),(1,2,2),(2,5,5),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(1,2,2),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,6),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,3,4)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((5,15,21),(0,1,0),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,5),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,5,7),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,15,21),(2,5,7),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,5),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=1; h,r-ind=1,1
```

21.66 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,17,21)); lvl=0; h,r-ind=21,441
  [4,3]((5,17,20),(4,13,16),(5,14,17),(2,6,7)); lvl=1; h,r-ind=3,3
    [4,3]((10,31,37),(2,6,7),(5,14,17),(3,9,11)); lvl=2; h,r-ind=1,3
      [3,3]((2,6,7),(5,15,18),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,11),(5,15,18),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((10,31,37),(3,9,11),(5,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((10,31,37),(2,6,7),(5,15,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,12),(10,31,37),(3,9,11)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((3,10,12),(4,13,16),(3,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((5,17,20),(3,10,12),(10,31,37),(2,6,7)); lvl=2; h,r-ind=1,3
      [3,3]((3,10,12),(5,16,19),(10,31,37)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(5,16,19),(10,31,37)); lvl=3; h,r-ind=1,1
      [3,3]((5,17,20),(2,6,7),(5,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,17,20),(3,10,12),(5,16,19)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,1),(2,5,5),(5,14,17),(2,6,7)); lvl=1; h,r-ind=3,3
    [4,3]((2,6,7),(2,5,5),(1,2,2),(7,19,22)); lvl=2; h,r-ind=1,3
      [3,3]((1,2,2),(3,8,9),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,8,9),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((7,19,22),(1,2,2),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(7,19,22),(3,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(1,2,2),(7,19,22)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,1,1),(2,5,6),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((5,14,17),(2,5,6),(2,6,7),(7,19,22)); lvl=2; h,r-ind=1,3
      [3,3]((4,11,13),(7,19,22),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,14,17),(4,11,13),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(5,14,17),(4,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(4,11,13),(7,19,22)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(5,14,17)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,4,4),(2,5,5),(5,17,20),(2,6,7)); lvl=1; h,r-ind=3,3
    [4,3]((7,22,25),(1,3,3),(2,6,7),(2,5,5)); lvl=2; h,r-ind=1,3
      [3,3]((3,9,10),(1,3,3),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,10),(2,6,7),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((7,22,25),(3,9,10),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((7,22,25),(3,9,10),(1,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,8),(7,22,25),(1,3,3)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((2,7,8),(1,4,4),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,8),(7,22,25),(5,17,20),(2,6,7)); lvl=2; h,r-ind=1,3
      [3,3]((4,13,15),(7,22,25),(2,6,7)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((5,17,20),(4,13,15),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(5,17,20),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(4,13,15),(7,22,25)); lvl=3; h,r-ind=1,1
  [3,3]((5,17,21),(1,4,4),(5,17,20)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,4,4),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,17,21),(0,1,0),(1,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,17,21),(5,17,20),(4,13,16)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(4,13,16),(5,14,17)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,17,21),(1,0,0),(4,13,16)); lvl=1; h,r-ind=1,1
```

21.67 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,18,21)); lvl=0; h,r-ind=21,147
  [4,3]((2,6,7),(3,8,9),(6,19,21),(2,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,8),(3,9,10),(6,19,21)); lvl=2; h,r-ind=1,1
    [3,3]((7,22,25),(2,7,8),(3,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(7,22,25),(2,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,7),(7,22,25),(3,9,10),(3,8,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,15,17),(3,9,10),(7,22,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(5,15,17),(7,22,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(5,15,17),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,8,9),(5,15,17)); lvl=3; h,r-ind=1,1
  [3,3]((3,11,12),(6,19,21),(2,7,8)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,18,21),(3,11,12),(2,7,8)); lvl=1; h,r-ind=1,1
  [3,3]((5,18,21),(3,11,12),(1,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,18,21),(2,6,7),(2,7,8)); lvl=1; h,r-ind=1,1
  [4,3]((3,8,9),(1,1,1),(2,5,5),(6,19,21)); lvl=1; h,r-ind=3,1
    [3,3]((4,12,13),(2,5,5),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((4,12,13),(3,9,10),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((3,8,9),(3,9,10),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((3,9,10),(1,2,2),(4,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,2),(4,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(1,1,1),(4,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(3,9,10),(4,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((4,12,13),(6,19,21),(3,9,10)); lvl=2; h,r-ind=1,1
  [4,3]((3,11,12),(1,4,4),(2,5,5),(6,19,21)); lvl=1; h,r-ind=3,1
    [3,3]((4,12,13),(2,5,5),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,12,13),(3,10,11),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((3,11,12),(3,10,11),(1,4,4),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,11),(1,3,3),(4,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(4,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,12),(1,4,4),(4,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,12),(3,10,11),(4,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,12,13),(6,19,21),(3,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,18,21),(0,1,0),(1,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((2,6,7),(1,0,0),(3,8,9),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((1,0,0),(3,7,8),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(3,7,8),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(3,8,9),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(1,0,0),(3,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

21.68 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,19,21)); lvl=0; h,r-ind=21,441
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,11,12),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,11,12),(3,10,11),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,19,21),(3,10,11),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((4,11,12),(4,13,14),(2,5,5),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((4,13,14),(1,2,2),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,13,14),(4,12,13),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(4,11,12),(4,12,13),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((4,11,12),(4,12,13),(5,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,12,13),(5,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(4,11,12),(5,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(5,13,14)); lvl=3; h,r-ind=1,1
  [4,3]((6,21,23),(4,11,12),(3,10,11),(4,13,14)); lvl=1; h,r-ind=1,1
    [4,3]((10,33,36),(3,10,11),(4,12,13),(4,11,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,10,11),(4,11,12),(7,22,24)); lvl=3; h,r-ind=1,1
      [3,3]((4,12,13),(4,11,12),(7,22,24)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((10,33,36),(3,10,11),(7,22,24)); lvl=3; h,r-ind=1,1
      [3,3]((4,12,13),(10,33,36),(7,22,24)); lvl=3; h,r-ind=1,1
    [3,3]((4,13,14),(10,33,36),(4,12,13)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((6,21,23),(4,13,14),(10,33,36)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((6,21,23),(10,33,36),(3,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((5,19,21),(6,21,23),(3,10,11)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,19,21),(0,1,0),(1,4,4)); lvl=1; h,r-ind=1,1
  [4,3]((4,15,16),(4,13,14),(1,4,4),(2,5,5)); lvl=1; h,r-ind=1,1
    [3,3]((4,13,14),(2,5,5),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,14,15),(4,13,14),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((4,14,15),(4,15,16),(1,4,4),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((4,15,16),(5,18,19),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(5,18,19),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,15),(4,15,16),(5,18,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(4,14,15),(5,18,19)); lvl=3; h,r-ind=1,1
  [3,3]((5,19,21),(4,15,16),(1,4,4)); lvl=1; h,r-ind=1,1
  [4,3]((5,19,21),(6,21,23),(4,15,16),(4,13,14)); lvl=1; h,r-ind=1,1
    [3,3]((3,11,12),(4,14,15),(4,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((6,21,23),(3,11,12),(4,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((5,19,21),(6,21,23),(3,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,16),(3,11,12),(4,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((5,19,21),(4,15,16),(3,11,12)); lvl=2; h,r-ind=1,1
```

21.69 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,20,21)); lvl=0; h,r-ind=21,441
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((5,20,21),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,20,21),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,4,4),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,20,21),(0,1,0),(1,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,20,21),(1,4,4),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
```

21.70 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,7,21)); lvl=0; h,r-ind=21,21
  [3,3]((3,4,8),(2,3,6),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,10),(2,3,6),(1,1,3)); lvl=1; h,r-ind=1,1
  [4,3]((6,7,21),(3,4,10),(6,8,21),(1,1,3)); lvl=1; h,r-ind=1,1
    [4,3]((4,5,14),(8,10,27),(3,4,10),(6,8,21)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((8,10,27),(7,9,24),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,21),(7,9,24),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,14),(6,8,21),(7,9,24)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,14),(8,10,27),(7,9,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(8,10,27),(3,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,14),(1,1,3),(8,10,27)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,14),(6,7,21),(1,1,3)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(3,4,10),(6,8,21),(2,3,6)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,7),(9,13,30),(6,8,21),(3,4,10)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((5,7,17),(3,4,10),(6,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,17),(6,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((9,13,30),(5,7,17),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(9,13,30),(5,7,17)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,6),(4,6,13),(9,13,30),(3,4,10)); lvl=2; h,r-ind=1,1
      [3,3]((7,10,23),(4,6,13),(9,13,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(7,10,23),(9,13,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,4,10),(7,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(7,10,23),(4,6,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(4,6,13),(2,3,7),(9,13,30)); lvl=2; h,r-ind=1,1
      [3,3]((4,6,13),(6,9,20),(9,13,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(6,9,20),(9,13,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,6,13),(6,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(1,2,3),(6,9,20)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,3),(4,6,13)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(3,4,6),(3,4,8),(1,1,3)); lvl=1; h,r-ind=2,4
    [3,3]((1,1,2),(3,4,8),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,6),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,0,0),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,2),(3,4,8)); lvl=2; h,r-ind=1,1
```

```
  [4,3]((0,1,0),(3,4,6),(3,4,8),(2,3,6)); lvl=1; h,r-ind=2,1
    [3,3]((3,4,8),(2,3,5),(3,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,6),(3,4,6),(2,3,5),(3,4,7)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,6),(2,3,4),(7,10,16),(3,4,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,11),(2,3,4),(7,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(3,4,7),(7,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(5,7,11),(3,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(5,7,11),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(7,10,16),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(2,3,4),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(3,5,6),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(3,4,8),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(3,5,6),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(0,1,0),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(0,1,0),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,10),(1,2,2),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(4,7,10),(2,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(3,5,6),(1,2,2)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(3,4,6)); lvl=1; h,r-ind=6,6; optimized-h
```

21.71 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,8,21)); lvl=0; h,r-ind=21,147
  [3,3]((1,0,0),(4,5,13),(6,7,18)); lvl=1; h,r-ind=1,1
  [4,3]((7,9,23),(4,5,12),(4,5,13),(6,7,18)); lvl=1; h,r-ind=1,1
    [4,3]((4,5,13),(12,15,38),(6,7,18),(5,6,15)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((9,11,28),(5,6,15),(12,15,38)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,13),(9,11,28),(12,15,38)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,18),(9,11,28),(5,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,13),(6,7,18),(9,11,28)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,12),(12,15,38),(5,6,15)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((7,9,23),(4,5,12),(12,15,38)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((7,9,23),(4,5,13),(12,15,38)); lvl=2; h,r-ind=1,1
  [3,3]((6,8,21),(7,9,23),(4,5,13)); lvl=1; h,r-ind=1,1
  [5,3]((6,8,21),(2,3,7),(3,4,9),(7,9,23),(4,5,12)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,10),(3,4,9),(4,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,10),(7,9,23),(4,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((6,8,21),(3,4,10),(7,9,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,10),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((6,8,21),(2,3,7),(3,4,10)); lvl=2; h,r-ind=1,1
  [4,3]((4,5,12),(3,3,7),(1,0,0),(6,7,18)); lvl=1; h,r-ind=1,1
    [3,3]((3,3,7),(2,2,5),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,18),(2,2,5),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,12),(3,3,7),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,12),(5,6,15),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,18),(5,6,15),(2,2,5)); lvl=2; h,r-ind=1,1
  [5,3]((3,4,9),(3,4,8),(1,1,2),(4,5,12),(3,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((6,7,16),(1,1,2),(3,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,16),(4,5,12),(3,3,7)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((6,7,16),(9,11,25),(8,10,23),(4,5,12)); lvl=2; h,r-ind=1,1
      [3,3]((9,11,25),(8,10,23),(22,27,62)); lvl=3; h,r-ind=1,1
      [4,3]((5,6,14),(4,5,12),(8,10,23),(22,27,62)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,5,12),(13,16,37),(8,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((22,27,62),(13,16,37),(8,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,14),(22,27,62),(13,16,37)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,14),(4,5,12),(13,16,37)); lvl=4; h,r-ind=1,1
      [4,3]((6,7,16),(5,6,14),(9,11,25),(22,27,62)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((14,17,39),(5,6,14),(22,27,62)); lvl=4; h,r-ind=1,1
        [3,3]((14,17,39),(9,11,25),(22,27,62)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,16),(14,17,39),(9,11,25)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,16),(14,17,39),(5,6,14)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,9),(8,10,23),(4,5,12)); lvl=2; h,r-ind=1,1
    [4,3]((6,7,16),(9,11,25),(4,5,11),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,11),(9,11,25),(10,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,16),(9,11,25),(10,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(6,7,16),(10,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,11),(10,12,27)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,8),(4,5,11),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,9),(3,4,8),(4,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,9),(9,11,25),(4,5,11),(8,10,23)); lvl=2; h,r-ind=1,1
      [3,3]((12,15,34),(9,11,25),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(12,15,34),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,23),(3,4,9),(12,15,34)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((8,10,23),(12,15,34),(9,11,25)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,3),(2,3,5),(3,4,9),(3,4,8)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,6),(7,10,19),(3,4,9),(3,4,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,9),(5,7,14),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,19),(5,7,14),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(7,10,19),(5,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,4,9),(5,7,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(7,10,19),(3,4,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,3,6),(2,3,5),(7,10,19)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,6),(7,10,19),(4,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(7,10,19),(4,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(4,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,6),(4,6,11)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,7),(1,2,3),(3,4,9)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((2,2,3),(2,3,4),(2,3,5),(3,4,8),(1,1,2)); lvl=1; h,r-ind=1,1
    [4,3]((5,7,11),(6,8,13),(2,3,4),(4,5,8)); lvl=2; h,r-ind=1,1
      [4,3]((14,19,30),(3,4,6),(4,5,8),(6,8,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,12,19),(3,4,6),(4,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((9,12,19),(6,8,13),(4,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((14,19,30),(9,12,19),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((14,19,30),(9,12,19),(3,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(14,19,30),(6,8,13)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,11),(14,19,30),(3,4,6),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((14,19,30),(8,11,17),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(8,11,17),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(2,3,4),(8,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(14,19,30),(8,11,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(4,5,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,1,2),(3,4,7),(6,8,13),(4,5,8)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,7),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,8),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,7),(7,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(1,1,2),(4,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,5),(5,7,11),(3,4,7),(6,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((8,11,18),(6,8,13),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(8,11,18),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(8,11,18),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,7,11),(8,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(3,4,7),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,7),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(5,7,11),(2,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,3),(2,3,4),(2,3,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,2),(2,3,4),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,4),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(1,2,2),(3,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(1,2,2),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,7),(0,1,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(3,3,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,2,3),(2,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((6,8,21),(1,0,0),(4,5,13)); lvl=1; h,r-ind=1,1
```

21.72 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,10,21)); lvl=0; h,r-ind=21,147
  [4,3]((6,10,21),(6,11,21),(3,5,9),(2,3,6)); lvl=1; h,r-ind=3,3
    [3,3]((3,5,10),(3,5,9),(9,16,30)); lvl=2; h,r-ind=3,3; optimized-h
    [4,3]((6,11,21),(4,7,14),(3,5,10),(9,16,30)); lvl=2; h,r-ind=1,1
      [3,3]((12,21,41),(3,5,10),(4,7,14)); lvl=3; h,r-ind=1,1
      [4,3]((6,11,21),(12,21,41),(5,9,17),(4,7,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,16,31),(5,9,17),(12,21,41)); lvl=4; h,r-ind=1,1
        [3,3]((9,16,31),(4,7,14),(12,21,41)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,21),(9,16,31),(4,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,21),(9,16,31),(5,9,17)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((12,21,41),(5,9,17),(3,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((9,16,30),(5,9,17),(3,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((6,10,21),(4,7,14),(3,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(3,5,10),(3,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((6,10,21),(2,3,6),(3,5,10)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,2),(2,3,5),(3,5,9),(2,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(3,5,9),(4,6,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(3,5,9),(4,6,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(4,6,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,1,2),(4,6,11)); lvl=2; h,r-ind=1,1
  [3,3]((6,10,21),(1,1,2),(2,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(6,10,21),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,2),(2,3,5),(3,5,9)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,9),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(1,2,2),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,2),(2,2,3),(1,2,2),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,4),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(2,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,2,3),(1,2,2)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,1),(0,1,0),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(6,11,21),(3,5,9)); lvl=1; h,r-ind=9,3; optimized-h
```

21.73 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,13,21)); lvl=0; h,r-ind=21,147
  [3,3]((1,2,3),(1,0,0),(4,7,11)); lvl=1; h,r-ind=1,1
  [3,3]((5,10,16),(1,0,0),(4,7,11)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((6,13,21),(5,10,16),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((5,10,16),(1,2,3),(4,7,11)); lvl=1; h,r-ind=1,1
  [3,3]((6,13,21),(5,10,16),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((6,13,21),(1,2,3),(6,14,21)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,2,3),(6,14,21)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,3,4),(1,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(2,3,4),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,2),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=1; h,r-ind=1,1
```

21.74 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,14,21)); lvl=0; h,r-ind=21,21
  [3,3]((1,2,3),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,5,6),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,3),(2,5,6),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(2,5,6),(2,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((6,14,21),(1,2,3),(2,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,6),(0,1,0),(2,5,7)); lvl=1; h,r-ind=2,2; optimized-h
```

21.75 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,20,21)); lvl=0; h,r-ind=21,147
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((6,20,21),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((6,20,21),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(2,7,7)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((6,20,21),(1,3,3),(2,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((6,20,21),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
```

21.76 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,8,21)); lvl=0; h,r-ind=21,63
  [3,3]((7,8,21),(2,2,5),(7,7,18)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,5),(7,7,18)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(7,8,21),(7,7,18)); lvl=1; h,r-ind=3,9; optimized-h
  [4,3]((7,8,21),(7,9,21),(3,3,7),(2,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,14),(3,3,7),(11,12,29)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,2,5),(21,23,56),(3,3,7),(11,12,29)); lvl=2; h,r-ind=1,1
      [3,3]((21,23,56),(13,14,34),(11,12,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,7),(13,14,34),(11,12,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,5),(3,3,7),(13,14,34)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,5),(21,23,56),(13,14,34)); lvl=3; h,r-ind=1,1
    [5,3]((7,8,21),(8,9,22),(5,6,15),(2,2,5),(21,23,56)); lvl=2; h,r-ind=1,1
      [4,3]((5,6,15),(9,10,25),(17,19,47),(15,17,42)); lvl=3; h,r-ind=1,1
        [4,3]((7,8,20),(39,44,109),(17,19,47),(9,10,25)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((24,27,67),(17,19,47),(39,44,109)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,20),(24,27,67),(39,44,109)); lvl=5; h,r-ind=1,1
          [3,3]((9,10,25),(24,27,67),(17,19,47)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,20),(9,10,25),(24,27,67)); lvl=5; h,r-ind=1,1
        [3,3]((15,17,42),(39,44,109),(17,19,47)); lvl=4; h,r-ind=1,1
        [4,3]((7,8,20),(5,6,15),(15,17,42),(39,44,109)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((22,25,62),(15,17,42),(5,6,15)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,20),(22,25,62),(5,6,15)); lvl=5; h,r-ind=1,1
          [3,3]((39,44,109),(22,25,62),(15,17,42)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,20),(39,44,109),(22,25,62)); lvl=5; h,r-ind=1,1
      [4,3]((10,11,27),(8,9,22),(17,19,47),(15,17,42)); lvl=3; h,r-ind=1,1
        [3,3]((25,28,69),(15,17,42),(8,9,22)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,27),(25,28,69),(8,9,22)); lvl=4; h,r-ind=1,1
        [3,3]((17,19,47),(25,28,69),(15,17,42)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,27),(17,19,47),(25,28,69)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,15),(8,9,22),(15,17,42)); lvl=3; h,r-ind=1,1
      [3,3]((21,23,56),(10,11,27),(8,9,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,5),(21,23,56),(10,11,27)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,15),(6,7,18),(9,10,25)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((7,8,21),(2,2,5),(6,7,18),(9,10,25)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,2,5),(8,9,23),(9,10,25)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,18),(8,9,23),(9,10,25)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,21),(6,7,18),(8,9,23)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,21),(2,2,5),(8,9,23)); lvl=4; h,r-ind=1,1
      [4,3]((2,2,5),(10,11,27),(9,10,25),(17,19,47)); lvl=3; h,r-ind=1,1
        [3,3]((17,19,47),(10,11,27),(19,21,52)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,5),(10,11,27),(19,21,52)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,25),(2,2,5),(19,21,52)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,25),(17,19,47),(19,21,52)); lvl=4; h,r-ind=1,1
    [5,3]((4,5,12),(8,9,22),(21,23,56),(5,6,14),(11,12,29)); lvl=2; h,r-ind=1,1
      [4,3]((19,21,51),(15,17,41),(16,18,43),(11,12,29)); lvl=3; h,r-ind=1,1
        [3,3]((15,17,41),(9,10,24),(16,18,43)); lvl=4; h,r-ind=1,1
        [3,3]((17,19,46),(15,17,41),(9,10,24)); lvl=4; h,r-ind=1,1
        [4,3]((19,21,51),(17,19,46),(11,12,29),(9,10,24)); lvl=4; h,r-ind=1,1
          [3,3]((17,19,46),(9,10,24),(28,31,75)); lvl=5; h,r-ind=1,1
          [3,3]((11,12,29),(9,10,24),(28,31,75)); lvl=5; h,r-ind=1,1
          [3,3]((19,21,51),(17,19,46),(28,31,75)); lvl=5; h,r-ind=1,1
          [3,3]((11,12,29),(19,21,51),(28,31,75)); lvl=5; h,r-ind=1,1
      [3,3]((21,23,56),(19,21,51),(11,12,29)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,22),(21,23,56),(19,21,51)); lvl=3; h,r-ind=1,1
      [4,3]((6,7,17),(8,9,22),(19,21,51),(15,17,41)); lvl=3; h,r-ind=1,1
        [4,3]((31,35,85),(17,19,46),(8,9,22),(19,21,51)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((17,19,46),(19,21,51),(25,28,68)); lvl=5; h,r-ind=1,1
          [3,3]((8,9,22),(19,21,51),(25,28,68)); lvl=5; h,r-ind=1,1
          [3,3]((31,35,85),(17,19,46),(25,28,68)); lvl=5; h,r-ind=1,1
          [3,3]((8,9,22),(31,35,85),(25,28,68)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,17),(31,35,85),(8,9,22)); lvl=4; h,r-ind=1,1
        [4,3]((6,7,17),(31,35,85),(15,17,41),(17,19,46)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((23,26,63),(17,19,46),(31,35,85)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,17),(23,26,63),(31,35,85)); lvl=5; h,r-ind=1,1
          [3,3]((15,17,41),(23,26,63),(17,19,46)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,17),(15,17,41),(23,26,63)); lvl=5; h,r-ind=1,1
      [5,3]((4,5,12),(6,7,17),(5,6,14),(15,17,41),(16,18,43)); lvl=3; h,r-ind=1,1
        [4,3]((4,5,12),(5,6,14),(7,8,19),(17,20,48)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,6,14),(11,13,31),(7,8,19)); lvl=5; h,r-ind=1,1
          [3,3]((17,20,48),(11,13,31),(7,8,19)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,12),(17,20,48),(11,13,31)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,12),(5,6,14),(11,13,31)); lvl=5; h,r-ind=1,1
```

```
      [4,3]((6,7,17),(28,32,77),(7,8,19),(17,20,48)); lvl=4; h,r-ind=1,1
        [3,3]((13,15,36),(7,8,19),(28,32,77)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,17),(13,15,36),(28,32,77)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,17),(17,20,48),(13,15,36)); lvl=5; h,r-ind=1,1
        [3,3]((17,20,48),(13,15,36),(7,8,19)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,12),(6,7,17),(17,20,48)); lvl=4; h,r-ind=1,1
      [4,3]((28,32,77),(15,17,41),(16,18,43),(7,8,19)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((22,25,60),(15,17,41),(16,18,43)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,19),(22,25,60),(16,18,43)); lvl=5; h,r-ind=1,1
        [3,3]((28,32,77),(22,25,60),(15,17,41)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,19),(28,32,77),(22,25,60)); lvl=5; h,r-ind=1,1
      [3,3]((6,7,17),(28,32,77),(15,17,41)); lvl=4; h,r-ind=1,1
  [3,3]((4,5,12),(7,9,21),(5,6,14)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,12),(8,9,22),(5,6,15)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,0,0),(3,3,7),(2,2,5)); lvl=1; h,r-ind=1,1
[4,3]((0,1,0),(7,9,21),(3,3,7),(1,1,2)); lvl=1; h,r-ind=1,1
  [5,3]((3,4,9),(5,6,13),(8,9,20),(14,16,35),(5,6,14)); lvl=2; h,r-ind=1,1
    [3,3]((14,16,35),(13,15,33),(5,6,13)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,11),(11,13,29),(13,15,33),(5,6,13)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,11),(21,25,55),(11,13,29),(12,14,31)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((16,19,42),(12,14,31),(21,25,55)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,11),(16,19,42),(21,25,55)); lvl=5; h,r-ind=1,1
        [3,3]((16,19,42),(11,13,29),(12,14,31)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,11),(16,19,42),(11,13,29)); lvl=5; h,r-ind=1,1
      [4,3]((5,6,13),(21,25,55),(13,15,33),(12,14,31)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((12,14,31),(17,20,44),(21,25,55)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,13),(17,20,44),(21,25,55)); lvl=5; h,r-ind=1,1
        [3,3]((13,15,33),(5,6,13),(17,20,44)); lvl=5; h,r-ind=1,1
        [3,3]((13,15,33),(12,14,31),(17,20,44)); lvl=5; h,r-ind=1,1
      [3,3]((5,6,13),(4,5,11),(21,25,55)); lvl=4; h,r-ind=1,1
    [5,3]((3,4,9),(4,5,11),(11,13,29),(5,6,14),(13,15,34)); lvl=3; h,r-ind=1,1
      [4,3]((11,13,29),(21,25,56),(6,7,16),(13,15,34)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((21,25,56),(17,20,45),(6,7,16)); lvl=5; h,r-ind=1,1
        [3,3]((13,15,34),(17,20,45),(6,7,16)); lvl=5; h,r-ind=1,1
        [3,3]((11,13,29),(21,25,56),(17,20,45)); lvl=5; h,r-ind=1,1
        [3,3]((13,15,34),(11,13,29),(17,20,45)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,11),(11,13,29),(21,25,56)); lvl=4; h,r-ind=1,1
      [4,3]((4,5,11),(13,16,36),(21,25,56),(6,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,16),(10,12,27),(13,16,36)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,11),(10,12,27),(13,16,36)); lvl=5; h,r-ind=1,1
        [3,3]((21,25,56),(4,5,11),(10,12,27)); lvl=5; h,r-ind=1,1
        [3,3]((21,25,56),(6,7,16),(10,12,27)); lvl=5; h,r-ind=1,1
      [4,3]((3,4,9),(13,16,36),(5,6,14),(6,7,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((6,7,16),(13,16,36),(9,11,25)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,9),(13,16,36),(9,11,25)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,14),(6,7,16),(9,11,25)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,9),(5,6,14),(9,11,25)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,11),(3,4,9),(13,16,36)); lvl=4; h,r-ind=1,1
    [3,3]((14,16,35),(13,15,33),(8,9,20)); lvl=3; h,r-ind=1,1
    [4,3]((11,13,29),(13,15,34),(13,15,33),(8,9,20)); lvl=3; h,r-ind=1,1
      [4,3]((13,15,33),(12,14,31),(7,8,18),(8,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((12,14,31),(7,8,18),(20,23,51)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,20),(7,8,18),(20,23,51)); lvl=5; h,r-ind=1,1
        [3,3]((13,15,33),(12,14,31),(20,23,51)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,20),(13,15,33),(20,23,51)); lvl=5; h,r-ind=1,1
      [3,3]((11,13,29),(12,14,31),(7,8,18)); lvl=4; h,r-ind=1,1
      [3,3]((11,13,29),(13,15,34),(7,8,18)); lvl=4; h,r-ind=1,1
  [3,3]((3,4,9),(7,9,21),(5,6,14)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,9),(2,3,6),(5,6,13)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((3,3,7),(8,9,20),(5,6,14)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,1,2),(3,3,7),(8,9,20),(14,16,35)); lvl=2; h,r-ind=1,1
    [3,3]((9,10,22),(3,3,7),(8,9,20)); lvl=3; h,r-ind=1,1
    [3,3]((14,16,35),(9,10,22),(8,9,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(14,16,35),(9,10,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(9,10,22),(3,3,7)); lvl=3; h,r-ind=1,1
  [5,3]((0,1,0),(2,3,6),(5,6,13),(1,1,2),(14,16,35)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,15),(5,6,13),(14,16,35)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,15),(1,1,2),(14,16,35)); lvl=3; h,r-ind=1,1
    [4,3]((6,7,15),(9,11,23),(4,5,10),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,10),(9,11,23),(10,12,25)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,15),(9,11,23),(10,12,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(6,7,15),(10,12,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,10),(10,12,25)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(4,5,10),(1,1,2)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,3),(4,5,10),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,10),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,1,2),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,3),(2,3,5)); lvl=4; h,r-ind=1,1
    [4,3]((6,7,15),(9,11,23),(8,10,21),(5,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,21),(9,11,23),(14,17,36)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((6,7,15),(9,11,23),(14,17,36)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,13),(6,7,15),(14,17,36)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,13),(8,10,21),(14,17,36)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(8,10,21),(5,6,13)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,6),(9,11,23),(8,10,21),(4,5,10)); lvl=3; h,r-ind=1,1
        [3,3]((9,11,23),(8,10,21),(20,25,52)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,8),(2,3,6),(8,10,21),(20,25,52)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((8,10,21),(11,14,29),(2,3,6)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,8),(11,14,29),(2,3,6)); lvl=5; h,r-ind=1,1
          [3,3]((20,25,52),(3,4,8),(11,14,29)); lvl=5; h,r-ind=1,1
          [3,3]((20,25,52),(8,10,21),(11,14,29)); lvl=5; h,r-ind=1,1
        [4,3]((4,5,10),(3,4,8),(9,11,23),(20,25,52)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((12,15,31),(3,4,8),(20,25,52)); lvl=5; h,r-ind=1,1
          [3,3]((9,11,23),(12,15,31),(20,25,52)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,10),(12,15,31),(3,4,8)); lvl=5; h,r-ind=1,1
          [3,3]((9,11,23),(4,5,10),(12,15,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,6),(4,5,10)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(3,3,7),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
```

21.77 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,9,21)); lvl=0; h,r-ind=21,21
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,6),(0,1,0),(1,1,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,4,9),(2,3,6),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((7,9,21),(8,9,21),(3,4,9),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(8,9,21),(5,6,14)); lvl=2; h,r-ind=1,1
    [3,3]((9,11,25),(1,1,2),(5,6,14)); lvl=2; h,r-ind=1,1
    [4,3]((7,9,21),(9,11,25),(3,4,9),(5,6,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,9),(9,11,25),(8,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,14),(9,11,25),(8,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,21),(5,6,14),(8,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,21),(3,4,9),(8,10,23)); lvl=3; h,r-ind=1,1
    [3,3]((9,11,25),(3,4,9),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(8,9,21),(1,1,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
```

21.78 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,10,21)); lvl=0; h,r-ind=21,63
  [3,3]((1,1,2),(0,1,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((1,1,2),(0,1,0),(3,5,9)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,3,6),(1,1,2),(3,5,9)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,6),(7,10,21),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(7,10,21),(1,1,2)); lvl=1; h,r-ind=1,1
```

21.79 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,12,21)); lvl=0; h,r-ind=21,21
  [5,3]((1,2,3),(2,3,3),(4,5,7),(1,2,2),(3,4,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(4,5,7),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,4),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,5),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(2,3,4),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((7,12,21),(8,12,21),(5,9,15),(2,3,5)); lvl=1; h,r-ind=3,3
    [4,3]((5,8,14),(13,21,36),(2,3,5),(8,12,21)); lvl=2; h,r-ind=1,3
      [3,3]((7,11,19),(2,3,5),(13,21,36)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,14),(7,11,19),(13,21,36)); lvl=3; h,r-ind=1,1
      [3,3]((8,12,21),(7,11,19),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,14),(8,12,21),(7,11,19)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,12),(13,21,36),(5,9,15),(2,3,5)); lvl=2; h,r-ind=1,3
      [3,3]((13,21,36),(6,10,17),(2,3,5)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((5,9,15),(6,10,17),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,12),(13,21,36),(6,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,15),(4,7,12),(6,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,14),(4,7,12),(13,21,36)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((7,12,21),(5,8,14),(4,7,12)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((2,2,3),(7,9,14),(4,5,7),(3,4,6)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,9),(7,9,14),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,7),(5,6,9),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(5,6,9),(7,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,7),(2,2,3),(5,6,9)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,3),(5,9,15),(2,3,5),(7,9,14),(3,4,6)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,8),(2,3,5),(5,9,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,8),(5,9,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,8),(2,3,5),(8,12,19)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(8,12,19),(5,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(7,9,14),(5,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(7,9,14),(5,7,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(3,5,8),(8,12,19),(6,9,14)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,8),(8,12,19),(9,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(8,12,19),(9,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,8),(9,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(1,2,3),(9,14,22)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,6),(8,12,19),(5,7,11),(6,9,14)); lvl=2; h,r-ind=1,1
      [3,3]((11,16,25),(8,12,19),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(11,16,25),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(3,4,6),(11,16,25)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(11,16,25),(8,12,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,4,6),(6,9,14)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((2,2,3),(1,0,0),(2,3,3),(4,5,7)); lvl=1; h,r-ind=1,1
    [4,3]((2,2,3),(8,9,12),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,3,4),(1,1,1),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,3,4),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,3,4),(1,0,0)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,8),(8,9,12),(3,4,5),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,9),(1,1,1),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(6,7,9),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(3,4,5),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(6,7,9),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(5,6,8),(8,9,12),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((7,8,11),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(7,8,11),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,7),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(7,8,11),(8,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,8),(3,4,5),(4,5,7)); lvl=2; h,r-ind=1,1
  [5,3]((8,12,21),(2,3,5),(2,2,3),(7,9,14),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,8),(7,9,14),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((7,9,15),(9,11,18),(4,5,8),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((11,14,23),(9,11,18),(4,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(11,14,23),(4,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,15),(2,3,5),(11,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,15),(11,14,23),(9,11,18)); lvl=3; h,r-ind=1,1
    [4,3]((8,12,21),(3,4,7),(7,9,15),(2,3,5)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,4,7),(5,7,12),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,7,12),(7,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((8,12,21),(2,3,5),(5,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((8,12,21),(3,4,7),(5,7,12)); lvl=3; h,r-ind=1,1
    [4,3]((3,3,5),(7,9,15),(9,11,18),(7,8,13)); lvl=2; h,r-ind=1,1
      [4,3]((5,6,10),(21,25,41),(7,9,15),(9,11,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((14,17,28),(9,11,18),(21,25,41)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,10),(14,17,28),(21,25,41)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,15),(14,17,28),(9,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,10),(7,9,15),(14,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,13),(21,25,41),(9,11,18)); lvl=3; h,r-ind=1,1
      [4,3]((3,3,5),(5,6,10),(7,8,13),(21,25,41)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((12,14,23),(5,6,10),(21,25,41)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,13),(12,14,23),(21,25,41)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,5),(12,14,23),(5,6,10)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,13),(3,3,5),(12,14,23)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,7),(3,3,5),(7,9,15)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,5,8),(2,2,3),(7,9,14)); lvl=2; h,r-ind=1,1
    [4,3]((9,11,18),(7,8,13),(4,5,8),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((7,8,13),(2,2,3),(11,13,21)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(2,2,3),(11,13,21)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,18),(4,5,8),(11,13,21)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,18),(7,8,13),(11,13,21)); lvl=3; h,r-ind=1,1
    [4,3]((3,3,5),(7,8,13),(1,0,0),(2,2,3)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((7,8,13),(2,2,3),(5,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,3),(5,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,5),(7,8,13),(5,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,5),(1,0,0),(5,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,7),(3,3,5),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

21.80 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,13,21)); lvl=0; h,r-ind=21,63
  [4,3]((1,0,0),(7,9,12),(5,7,10),(3,4,6)); lvl=1; h,r-ind=2,1
    [3,3]((6,8,11),(5,7,10),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(5,7,10),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(2,2,3),(4,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((8,9,12),(6,8,11),(7,9,12),(4,5,7)); lvl=2; h,r-ind=1,1
      [4,3]((5,6,8),(15,19,26),(7,9,12),(6,8,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((11,14,19),(15,19,26),(6,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,12),(11,14,19),(6,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,8),(7,9,12),(11,14,19)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,8),(11,14,19),(15,19,26)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,7),(15,19,26),(6,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(5,6,8),(15,19,26)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(2,2,3),(8,9,12),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((9,10,14),(4,5,7),(2,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(3,3,4),(9,10,14),(2,2,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,5,7),(3,3,4),(9,10,14)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,7),(2,2,3),(9,10,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(5,5,7),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(5,5,7),(3,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,4),(9,10,14),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,12),(3,3,4),(4,5,7)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,3),(6,9,14),(5,7,10),(3,4,6)); lvl=1; h,r-ind=1,1
    [3,3]((6,9,14),(4,6,9),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,10),(4,6,9),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(5,7,10),(4,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(6,9,14),(4,6,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(3,5,8),(6,9,14),(14,21,33)); lvl=1; h,r-ind=1,1
    [3,3]((6,9,14),(14,21,33),(9,14,22)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,8),(14,21,33),(9,14,22)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(6,9,14),(9,14,22)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,8),(1,2,3),(9,14,22)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,3),(7,13,21),(3,5,8)); lvl=1; h,r-ind=1,1
  [4,3]((6,9,14),(14,21,33),(1,0,0),(3,4,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(5,7,11),(1,0,0)); lvl=2; h,r-ind=1,1
    [4,3]((8,11,17),(19,27,42),(2,2,3),(5,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,11),(13,18,28),(19,27,42)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,17),(13,18,28),(19,27,42)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(8,11,17),(13,18,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(5,7,11),(13,18,28)); lvl=3; h,r-ind=1,1
    [4,3]((6,9,14),(19,27,42),(14,21,33),(5,7,11)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((19,27,42),(11,16,25),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((14,21,33),(11,16,25),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(14,21,33),(11,16,25)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(19,27,42),(11,16,25)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(8,11,17),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((6,9,14),(3,4,6),(8,11,17),(19,27,42)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,6),(14,20,31),(8,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((19,27,42),(14,20,31),(8,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(19,27,42),(14,20,31)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(3,4,6),(14,20,31)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,8),(14,21,33),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((7,13,21),(3,5,8),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((1,2,3),(1,2,2),(2,3,3),(7,9,12),(5,7,10)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,4),(3,4,5),(7,9,12),(6,8,11)); lvl=2; h,r-ind=1,1
      [3,3]((9,12,16),(7,9,12),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(9,12,16),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,11),(9,12,16),(7,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(6,8,11),(9,12,16)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,10),(2,3,4),(6,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(5,7,10),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(2,3,4),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,3),(7,9,12)); lvl=1; h,r-ind=9,3; optimized-h
```

```
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

21.81 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,15,21)); lvl=0; h,r-ind=21,21
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,5),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((8,15,21),(4,7,9),(3,4,5),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(4,7,9),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,4),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,7),(1,0,0),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,15),(2,3,4),(4,7,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((6,11,15),(8,15,21),(3,5,7),(2,3,4)); lvl=2; h,r-ind=1,1
      [4,3]((7,13,18),(12,21,29),(3,5,7),(8,15,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((10,18,25),(12,21,29),(3,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((8,15,21),(10,18,25),(3,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((7,13,18),(8,15,21),(10,18,25)); lvl=4; h,r-ind=1,1
        [3,3]((7,13,18),(10,18,25),(12,21,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(12,21,29),(3,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((6,11,15),(7,13,18),(2,3,4),(12,21,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,16,22),(12,21,29),(7,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,15),(9,16,22),(7,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(6,11,15),(9,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(9,16,22),(12,21,29)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((4,7,9),(3,4,5),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((6,9,11),(1,1,1),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(6,9,11),(3,4,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,3,3),(6,9,11),(3,5,6),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,6),(6,9,11),(4,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(6,9,11),(4,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(3,5,6),(4,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(4,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,9),(6,9,11),(3,5,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((4,7,9),(7,16,21),(0,1,0),(2,3,3)); lvl=1; h,r-ind=3,3
    [4,3]((3,7,9),(2,4,5),(3,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,5),(3,6,7),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,6,7),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,4,5),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,7,9),(4,9,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(0,1,0),(3,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,6),(4,9,10)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((3,6,7),(2,5,6),(4,9,10)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,2),(3,6,7),(4,9,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(1,3,3),(0,1,0),(4,9,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,3),(2,5,5),(0,1,0)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,5,5),(0,1,0)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,10),(1,2,2),(2,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,10),(1,3,3),(2,5,5)); lvl=4; h,r-ind=1,1
    [4,3]((3,5,6),(2,3,3),(1,2,2),(3,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,8),(2,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(4,7,8),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(3,6,7),(4,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(4,7,8),(2,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,6),(4,7,9),(2,4,5),(3,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,9,11),(4,7,9),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(5,9,11),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(3,6,7),(5,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(5,9,11),(4,7,9)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,9),(7,16,21),(2,4,5),(11,23,30)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,5),(11,23,30),(6,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(11,24,31),(6,13,17)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,9),(7,16,21),(11,24,31),(6,13,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,20,26),(7,16,21),(6,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((11,24,31),(9,20,26),(6,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(11,24,31),(9,20,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(9,20,26),(7,16,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(3,7,9),(11,24,31)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,9),(2,4,5),(11,23,30)); lvl=2; h,r-ind=3,3; optimized-h
  [4,3]((8,15,21),(7,15,21),(4,7,9),(7,16,21)); lvl=1; h,r-ind=3,1
    [4,3]((4,9,12),(3,6,8),(7,16,21),(11,23,30)); lvl=2; h,r-ind=1,1
      [3,3]((3,6,8),(11,23,30),(6,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((13,28,37),(3,6,8),(6,13,17)); lvl=3; h,r-ind=1,1
      [4,3]((4,9,12),(7,16,21),(13,28,37),(6,13,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((10,22,29),(7,16,21),(6,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((13,28,37),(10,22,29),(6,13,17)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((4,9,12),(13,28,37),(10,22,29)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,12),(10,22,29),(7,16,21)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,12),(13,28,37),(3,6,8)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,9),(3,6,8),(11,23,30)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((4,9,12),(5,11,15),(7,14,19),(3,6,8)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,15),(7,14,19),(8,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,8),(7,14,19),(8,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,12),(3,6,8),(8,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,12),(5,11,15),(8,17,23)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,9),(6,11,15),(7,14,19),(3,6,8)); lvl=2; h,r-ind=1,1
      [3,3]((6,11,15),(5,9,12),(12,23,31)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((3,6,8),(4,7,9),(5,9,12),(12,23,31)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,7,9),(8,15,20),(5,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((12,23,31),(8,15,20),(5,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,8),(12,23,31),(8,15,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,8),(4,7,9),(8,15,20)); lvl=4; h,r-ind=1,1
      [3,3]((7,14,19),(6,11,15),(12,23,31)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((3,6,8),(7,14,19),(12,23,31)); lvl=3; h,r-ind=1,1
    [4,3]((5,10,14),(7,15,21),(5,11,15),(7,14,19)); lvl=2; h,r-ind=1,1
      [3,3]((4,8,11),(5,11,15),(6,13,18)); lvl=3; h,r-ind=1,1
      [4,3]((5,10,14),(4,8,11),(7,15,21),(6,13,18)); lvl=3; h,r-ind=1,1
        [3,3]((4,8,11),(6,13,18),(11,23,32)); lvl=4; h,r-ind=1,1
        [3,3]((7,15,21),(6,13,18),(11,23,32)); lvl=4; h,r-ind=1,1
        [3,3]((5,10,14),(7,15,21),(11,23,32)); lvl=4; h,r-ind=1,1
        [3,3]((5,10,14),(4,8,11),(11,23,32)); lvl=4; h,r-ind=1,1
      [3,3]((4,8,11),(7,14,19),(5,11,15)); lvl=3; h,r-ind=1,1
    [4,3]((6,11,15),(8,15,21),(5,10,14),(7,14,19)); lvl=2; h,r-ind=1,1
      [4,3]((4,8,11),(7,13,18),(8,15,21),(5,10,14)); lvl=3; h,r-ind=1,1
        [3,3]((7,13,18),(8,15,21),(12,23,32)); lvl=4; h,r-ind=1,1
        [3,3]((5,10,14),(8,15,21),(12,23,32)); lvl=4; h,r-ind=1,1
        [3,3]((4,8,11),(7,13,18),(12,23,32)); lvl=4; h,r-ind=1,1
        [3,3]((5,10,14),(4,8,11),(12,23,32)); lvl=4; h,r-ind=1,1
      [3,3]((6,11,15),(4,8,11),(7,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,15),(7,14,19),(4,8,11)); lvl=3; h,r-ind=1,1
```

21.82 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,18,21)); lvl=0; h,r-ind=21,21
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((8,18,21),(4,8,9),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((7,14,16),(4,8,9),(1,1,1),(11,21,24)); lvl=2; h,r-ind=1,1
      [3,3]((4,8,9),(1,1,1),(8,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((11,21,24),(1,1,1),(8,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((7,14,16),(4,8,9),(8,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((7,14,16),(11,21,24),(8,15,17)); lvl=3; h,r-ind=1,1
    [4,3]((3,6,7),(1,0,0),(1,1,1),(11,21,24)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((4,7,8),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((11,21,24),(4,7,8),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(11,21,24),(4,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(4,7,8),(1,0,0)); lvl=3; h,r-ind=1,1
    [4,3]((3,6,7),(6,13,15),(7,14,16),(11,21,24)); lvl=2; h,r-ind=1,1
      [3,3]((6,13,15),(7,14,16),(10,20,23)); lvl=3; h,r-ind=1,1
      [3,3]((11,21,24),(7,14,16),(10,20,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(11,21,24),(10,20,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(6,13,15),(10,20,23)); lvl=3; h,r-ind=1,1
    [3,3]((8,18,21),(3,6,7),(6,13,15)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,15),(7,14,16),(4,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,3),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((4,8,9),(5,10,11),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((6,11,12),(5,10,11),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(6,11,12),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,9),(1,1,1),(6,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,9),(6,11,12),(5,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,3),(0,1,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((3,8,9),(5,10,11),(2,3,3),(1,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((4,9,10),(5,10,11),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,3),(5,10,11),(6,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,10),(5,10,11),(6,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,9,10),(6,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(6,12,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,9),(4,9,10),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
  [5,3]((7,18,21),(8,18,21),(4,8,9),(3,8,9),(5,10,11)); lvl=1; h,r-ind=2,1
    [3,3]((4,8,9),(3,7,8),(5,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,10),(3,7,8),(5,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(4,9,10),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((5,13,15),(3,8,9),(3,7,8)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((7,18,21),(5,12,14),(5,13,15),(3,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,8),(5,12,14),(10,25,29)); lvl=3; h,r-ind=1,1
      [3,3]((7,18,21),(5,12,14),(10,25,29)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,15),(7,18,21),(10,25,29)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,15),(3,7,8),(10,25,29)); lvl=3; h,r-ind=1,1
    [3,3]((4,8,9),(6,13,15),(3,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((8,18,21),(5,12,14),(6,13,15),(3,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((11,25,29),(5,12,14),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,15),(11,25,29),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((8,18,21),(6,13,15),(11,25,29)); lvl=3; h,r-ind=1,1
      [3,3]((8,18,21),(11,25,29),(5,12,14)); lvl=3; h,r-ind=1,1
```

21.83 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,19,21)); lvl=0; h,r-ind=21,63
  [5,3]((1,3,3),(2,3,3),(5,14,15),(5,12,13),(6,13,14)); lvl=1; h,r-ind=1,1
    [3,3]((5,12,13),(12,27,29),(6,13,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(2,3,3),(12,27,29),(6,13,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,15,16),(2,3,3),(6,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((12,27,29),(7,15,16),(6,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(12,27,29),(7,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(7,15,16),(2,3,3)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(5,12,13),(12,27,29),(5,13,14)); lvl=2; h,r-ind=1,1
      [3,3]((6,14,15),(12,27,29),(5,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,14),(6,14,15),(5,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,13,14),(6,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(6,14,15),(12,27,29)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(1,2,2),(5,14,15),(5,13,14)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(5,13,14),(6,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,14,15),(5,13,14),(6,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(5,14,15),(6,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(6,16,17)); lvl=3; h,r-ind=1,1
  [4,3]((4,10,11),(5,11,12),(5,12,13),(6,13,14)); lvl=1; h,r-ind=1,1
    [3,3]((6,13,14),(5,11,12),(10,23,25)); lvl=2; h,r-ind=1,1
    [3,3]((4,10,11),(5,11,12),(10,23,25)); lvl=2; h,r-ind=1,1
    [3,3]((5,12,13),(4,10,11),(10,23,25)); lvl=2; h,r-ind=1,1
    [3,3]((5,12,13),(6,13,14),(10,23,25)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(4,10,11),(5,11,12)); lvl=1; h,r-ind=1,1
  [4,3]((5,11,12),(1,1,1),(2,3,3),(6,13,14)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(7,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,12),(1,1,1),(7,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,14),(5,11,12),(7,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,14),(2,3,3),(7,14,15)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(5,11,12),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,1),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((7,19,21),(4,10,11),(5,14,15),(5,12,13)); lvl=1; h,r-ind=1,1
    [4,3]((17,44,48),(9,23,25),(4,10,11),(5,12,13)); lvl=2; h,r-ind=1,1
      [3,3]((13,33,36),(5,12,13),(9,23,25)); lvl=3; h,r-ind=1,1
      [3,3]((17,44,48),(13,33,36),(9,23,25)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,11),(17,44,48),(13,33,36)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,11),(13,33,36),(5,12,13)); lvl=3; h,r-ind=1,1
    [3,3]((5,13,14),(9,23,25),(5,12,13)); lvl=2; h,r-ind=1,1
    [4,3]((4,11,12),(17,44,48),(5,13,14),(9,23,25)); lvl=2; h,r-ind=1,1
      [3,3]((13,34,37),(9,23,25),(17,44,48)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,12),(13,34,37),(17,44,48)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,14),(4,11,12),(13,34,37)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,14),(13,34,37),(9,23,25)); lvl=3; h,r-ind=1,1
    [3,3]((5,14,15),(4,11,12),(5,13,14)); lvl=2; h,r-ind=1,1
    [4,3]((7,19,21),(4,11,12),(17,44,48),(4,10,11)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((4,11,12),(8,21,23),(17,44,48)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,11),(8,21,23),(17,44,48)); lvl=3; h,r-ind=1,1
      [3,3]((7,19,21),(4,10,11),(8,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((7,19,21),(4,11,12),(8,21,23)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(7,19,21),(4,10,11)); lvl=1; h,r-ind=1,1
```

21.84 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,20,21)); lvl=0; h,r-ind=21,63
  [3,3]((0,1,0),(1,3,3),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((7,20,21),(1,3,3),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,1),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,20,21),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((1,0,0),(7,20,21),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
```

21.85 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,8,21)); lvl=0; h,r-ind=21,441
  [3,3]((7,7,18),(1,0,0),(5,5,13)); lvl=1; h,r-ind=1,1
  [3,3]((8,8,21),(1,0,0),(5,5,13)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(7,7,18),(5,5,13)); lvl=1; h,r-ind=1,1
  [3,3]((8,8,21),(0,1,0),(5,5,13)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,5),(7,7,18),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,7),(2,2,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,7),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,7),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,7),(2,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,5),(7,7,18)); lvl=1; h,r-ind=1,1
```

21.86 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,9,21)); lvl=0; h,r-ind=21,147
  [3,3]((1,1,2),(0,1,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(3,4,7),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,7),(2,3,5),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,5),(7,9,18),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((8,9,21),(7,9,18),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,2),(5,6,12),(3,4,7)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,2),(14,16,35),(6,7,15),(5,6,12)); lvl=1; h,r-ind=1,1
    [3,3]((14,16,35),(7,8,17),(6,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,12),(7,8,17),(6,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(5,6,12),(7,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(14,16,35),(7,8,17)); lvl=2; h,r-ind=1,1
  [5,3]((8,9,21),(3,3,7),(1,1,2),(14,16,35),(7,8,18)); lvl=1; h,r-ind=1,1
    [3,3]((7,8,18),(8,9,20),(14,16,35)); lvl=2; h,r-ind=1,1
    [3,3]((8,9,20),(1,1,2),(14,16,35)); lvl=2; h,r-ind=1,1
    [4,3]((7,8,18),(8,9,20),(17,19,43),(16,18,41)); lvl=2; h,r-ind=1,1
      [3,3]((24,27,61),(17,19,43),(8,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,18),(24,27,61),(8,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((16,18,41),(24,27,61),(17,19,43)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,18),(16,18,41),(24,27,61)); lvl=3; h,r-ind=1,1
    [4,3]((8,9,20),(1,1,2),(10,11,25),(17,19,43)); lvl=2; h,r-ind=1,1
      [3,3]((18,20,45),(10,11,25),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,20),(18,20,45),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((17,19,43),(18,20,45),(10,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,20),(17,19,43),(18,20,45)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,7),(1,1,2),(10,11,25)); lvl=2; h,r-ind=1,1
    [4,3]((8,9,21),(10,11,25),(17,19,43),(16,18,41)); lvl=2; h,r-ind=1,1
      [4,3]((9,10,23),(42,47,107),(17,19,43),(10,11,25)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((42,47,107),(26,29,66),(17,19,43)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,25),(26,29,66),(17,19,43)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,23),(10,11,25),(26,29,66)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,23),(42,47,107),(26,29,66)); lvl=4; h,r-ind=1,1
      [3,3]((16,18,41),(42,47,107),(17,19,43)); lvl=3; h,r-ind=1,1
      [4,3]((9,10,23),(8,9,21),(16,18,41),(42,47,107)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,9,21),(25,28,64),(16,18,41)); lvl=4; h,r-ind=1,1
        [3,3]((42,47,107),(25,28,64),(16,18,41)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,23),(42,47,107),(25,28,64)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,23),(8,9,21),(25,28,64)); lvl=4; h,r-ind=1,1
    [3,3]((3,3,7),(8,9,21),(10,11,25)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((8,9,21),(7,8,18),(16,18,41)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,7),(1,1,2)); lvl=1; h,r-ind=1,1
  [6,3]((11,13,28),(6,7,15),(5,6,12),(3,4,7),(2,3,5),(7,9,18)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,10),(5,6,12),(6,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((11,13,28),(4,5,10),(6,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((11,13,28),(9,11,23),(4,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((9,11,23),(7,9,18),(4,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,7),(4,5,10),(5,6,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(3,4,7),(4,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,18),(2,3,5),(4,5,10)); lvl=2; h,r-ind=1,1
  [4,3]((8,9,21),(7,8,18),(11,13,28),(7,9,18)); lvl=1; h,r-ind=1,1
```

```
    [4,3]((16,19,41),(28,33,72),(7,8,18),(11,13,28)); lvl=2; h,r-ind=1,1
      [3,3]((7,8,18),(28,33,72),(23,27,59)); lvl=3; h,r-ind=1,1
      [3,3]((16,19,41),(28,33,72),(23,27,59)); lvl=3; h,r-ind=1,1
      [3,3]((11,13,28),(16,19,41),(23,27,59)); lvl=3; h,r-ind=1,1
      [3,3]((11,13,28),(7,8,18),(23,27,59)); lvl=3; h,r-ind=1,1
    [3,3]((9,11,23),(16,19,41),(11,13,28)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,13),(9,11,23),(16,19,41),(28,33,72)); lvl=2; h,r-ind=1,1
      [3,3]((9,11,23),(21,25,54),(16,19,41)); lvl=3; h,r-ind=1,1
      [3,3]((28,33,72),(21,25,54),(16,19,41)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,13),(28,33,72),(21,25,54)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,13),(9,11,23),(21,25,54)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,13),(7,9,18),(9,11,23)); lvl=2; h,r-ind=1,1
    [4,3]((8,9,21),(5,6,13),(28,33,72),(7,8,18)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((12,14,31),(5,6,13),(28,33,72)); lvl=3; h,r-ind=1,1
      [3,3]((12,14,31),(7,8,18),(28,33,72)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,21),(12,14,31),(7,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,21),(12,14,31),(5,6,13)); lvl=3; h,r-ind=1,1
  [4,3]((14,16,35),(7,8,18),(11,13,28),(6,7,15)); lvl=1; h,r-ind=1,1
    [3,3]((7,8,18),(13,15,33),(11,13,28)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,15),(13,15,33),(11,13,28)); lvl=2; h,r-ind=1,1
    [3,3]((14,16,35),(6,7,15),(13,15,33)); lvl=2; h,r-ind=1,1
    [3,3]((14,16,35),(7,8,18),(13,15,33)); lvl=2; h,r-ind=1,1
```

21.87 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,14,21)); lvl=0; h,r-ind=21,63
  [4,3]((3,5,7),(1,1,1),(1,0,0),(9,14,21)); lvl=1; h,r-ind=1,1
    [4,3]((3,5,7),(2,3,4),(3,4,6),(4,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,6),(2,3,4),(6,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(2,3,4),(6,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(3,5,7),(6,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(3,4,6),(6,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,7),(9,14,21),(4,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(2,3,4),(1,0,0),(3,4,6)); lvl=2; h,r-ind=1,1
      [4,3]((5,6,8),(2,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,2,3),(3,4,6),(4,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,6),(4,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,8),(2,2,3),(4,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(5,6,8),(4,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(5,6,8),(2,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(5,6,8),(1,0,0),(2,2,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,4),(5,6,8),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=4; h,r-ind=1,1
  [4,3]((8,14,21),(5,9,13),(3,5,7),(9,14,21)); lvl=1; h,r-ind=1,1
    [4,3]((6,10,15),(5,8,12),(4,7,10),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((9,15,22),(3,5,7),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,15),(9,15,22),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(9,15,22),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,15),(4,7,10),(9,15,22)); lvl=3; h,r-ind=1,1
    [3,3]((9,14,21),(5,8,12),(3,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((6,10,15),(8,14,21),(4,7,10),(5,9,13)); lvl=2; h,r-ind=1,1
      [4,3]((7,12,18),(8,14,21),(5,9,13),(16,28,41)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((12,21,31),(5,9,13),(8,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((7,12,18),(12,21,31),(8,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((16,28,41),(12,21,31),(5,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((7,12,18),(16,28,41),(12,21,31)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,10),(5,9,13),(16,28,41)); lvl=3; h,r-ind=1,1
      [4,3]((4,7,10),(6,10,15),(7,12,18),(16,28,41)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,10,15),(11,19,28),(7,12,18)); lvl=4; h,r-ind=1,1
        [3,3]((16,28,41),(11,19,28),(7,12,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,10),(16,28,41),(11,19,28)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,10),(6,10,15),(11,19,28)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,3),(9,16,21),(3,5,7),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,9),(9,16,21),(3,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((7,12,15),(2,3,4),(4,7,9),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((6,10,13),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,13),(4,7,9),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,15),(6,10,13),(4,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,15),(6,10,13),(2,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,3),(7,12,15),(1,1,1),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,6),(6,9,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(2,3,3),(3,5,6),(6,9,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,6,7),(2,3,3),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,11),(4,6,7),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(6,9,11),(4,6,7)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,1,1),(4,6,7),(2,3,3)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,4),(6,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(7,12,15),(3,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(9,16,21)); lvl=1; h,r-ind=15,15; optimized-h
  [3,3]((7,13,18),(0,1,0),(9,16,21)); lvl=1; h,r-ind=15,15; optimized-h
  [3,3]((5,9,13),(7,13,18),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((8,14,21),(5,9,13),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((5,9,13),(7,13,18),(9,16,21),(3,5,7)); lvl=1; h,r-ind=1,1
    [4,3]((4,7,10),(3,5,7),(5,9,12),(11,20,27)); lvl=2; h,r-ind=1,1
      [3,3]((9,16,22),(3,5,7),(5,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((11,20,27),(9,16,22),(5,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(11,20,27),(9,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(9,16,22),(3,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((5,9,13),(4,7,10),(7,13,18),(11,20,27)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,10),(6,11,15),(11,20,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(15,27,38),(6,11,15)); lvl=3; h,r-ind=1,1
      [4,3]((5,9,13),(7,13,18),(15,27,38),(6,11,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((11,20,28),(7,13,18),(6,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((15,27,38),(11,20,28),(6,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,13),(15,27,38),(11,20,28)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,13),(11,20,28),(7,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,13),(4,7,10),(15,27,38)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,7),(9,16,21),(5,9,12)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
```

21.88 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,10,21)); lvl=0; h,r-ind=21,147
  [3,3]((1,1,2),(0,1,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((1,1,2),(0,1,0),(9,11,21)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((9,10,21),(1,1,2),(9,11,21)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(9,10,21),(1,1,2)); lvl=1; h,r-ind=1,1
```

21.89 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,13,21)); lvl=0; h,r-ind=21,147
  [3,3]((1,0,0),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
  [5,3]((2,3,3),(2,3,4),(5,7,10),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((5,7,10),(4,5,7),(6,8,11)); lvl=2; h,r-ind=1,1
    [6,3]((10,13,17),(8,10,13),(5,6,8),(9,12,16),(4,5,7),(6,8,11)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,7),(5,6,8),(7,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,13),(5,6,8),(7,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,17),(8,10,13),(7,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,11),(4,5,7),(7,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,16),(6,8,11),(7,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,17),(9,12,16),(7,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,4),(5,6,8),(4,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((8,10,13),(1,1,1),(3,3,4),(5,6,8)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,9),(3,3,4),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,13),(6,7,9),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,9),(5,6,8),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,13),(6,7,9),(5,6,8)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,5),(10,13,17),(8,10,13),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((8,10,13),(10,13,17),(11,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(10,13,17),(11,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(11,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(8,10,13),(11,14,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(3,4,5),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(9,12,16),(5,7,10),(6,8,11)); lvl=2; h,r-ind=1,1
      [3,3]((8,11,15),(9,12,16),(6,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,10),(8,11,15),(6,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(5,7,10),(8,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(8,11,15),(9,12,16)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,5),(10,13,17),(2,3,4),(9,12,16)); lvl=2; h,r-ind=1,1
      [3,3]((9,12,16),(10,13,17),(12,16,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(10,13,17),(12,16,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(12,16,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(9,12,16),(12,16,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(3,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(2,3,4)); lvl=1; h,r-ind=2,2; optimized-h
```

```
[4,3]((10,14,21),(7,10,15),(2,3,4),(5,7,10)); lvl=1; h,r-ind=1,1
  [3,3]((7,10,15),(12,17,25),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,10),(12,17,25),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((10,14,21),(7,10,15),(12,17,25)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,10),(10,14,21),(12,17,25)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(9,14,21),(7,10,15),(2,3,4)); lvl=1; h,r-ind=2,1
  [4,3]((2,3,4),(5,8,11),(4,6,9),(7,10,15)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((5,8,11),(6,9,13),(4,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((7,10,15),(6,9,13),(4,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(7,10,15),(6,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(5,8,11),(6,9,13)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,7),(5,8,11),(4,6,9)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,7),(9,14,21),(4,6,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,4),(5,8,11),(1,2,2)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(3,5,7),(5,8,11),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(5,8,11),(3,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(4,7,9),(3,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(4,7,9),(5,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(0,1,0),(4,7,9)); lvl=3; h,r-ind=1,1
[4,3]((9,13,21),(5,7,11),(9,14,21),(7,10,15)); lvl=1; h,r-ind=2,1
  [4,3]((11,16,25),(4,6,9),(5,7,11),(7,10,15)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((4,6,9),(7,10,15),(9,13,20)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,11),(7,10,15),(9,13,20)); lvl=3; h,r-ind=1,1
    [3,3]((11,16,25),(5,7,11),(9,13,20)); lvl=3; h,r-ind=1,1
    [3,3]((11,16,25),(4,6,9),(9,13,20)); lvl=3; h,r-ind=1,1
  [3,3]((11,16,25),(4,6,9),(6,9,14)); lvl=2; h,r-ind=1,1
  [4,3]((9,13,21),(7,10,16),(11,16,25),(6,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((13,19,30),(11,16,25),(7,10,16)); lvl=3; h,r-ind=1,1
    [3,3]((9,13,21),(13,19,30),(7,10,16)); lvl=3; h,r-ind=1,1
    [3,3]((13,19,30),(6,9,14),(11,16,25)); lvl=3; h,r-ind=1,1
    [3,3]((9,13,21),(13,19,30),(6,9,14)); lvl=3; h,r-ind=1,1
  [3,3]((4,6,9),(9,14,21),(6,9,14)); lvl=2; h,r-ind=1,1
  [3,3]((7,10,16),(11,16,25),(5,7,11)); lvl=2; h,r-ind=1,1
[6,3]((6,7,11),(8,11,17),(10,14,21),(5,7,10),(1,0,0),(3,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,6),(5,6,9),(8,11,17),(7,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,9),(7,9,14),(10,13,20)); lvl=3; h,r-ind=1,1
    [3,3]((8,11,17),(7,9,14),(10,13,20)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(5,6,9),(10,13,20)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(8,11,17),(10,13,20)); lvl=3; h,r-ind=1,1
  [4,3]((6,7,11),(5,6,9),(2,2,3),(7,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((9,11,17),(2,2,3),(5,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,14),(9,11,17),(5,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,11),(7,9,14),(9,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,11),(9,11,17),(2,2,3)); lvl=3; h,r-ind=1,1
  [3,3]((6,7,11),(1,0,0),(2,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((5,7,10),(3,4,6),(4,5,7),(5,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(5,6,9),(7,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,7),(5,6,9),(7,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,10),(3,4,6),(7,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,7),(5,7,10),(7,9,13)); lvl=3; h,r-ind=1,1
  [4,3]((4,5,7),(5,6,9),(2,2,3),(3,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,9),(6,7,10),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,4),(6,7,10),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,7),(3,3,4),(6,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,7),(5,6,9),(6,7,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,6),(10,14,21),(8,11,17)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,10),(3,4,6),(10,14,21)); lvl=2; h,r-ind=1,1
[3,3]((6,7,11),(4,5,8),(1,0,0)); lvl=1; h,r-ind=1,1
[3,3]((9,13,21),(4,5,8),(1,0,0)); lvl=1; h,r-ind=1,1
[5,3]((11,15,24),(5,7,11),(6,7,11),(4,5,8),(8,11,17)); lvl=1; h,r-ind=1,1
  [3,3]((12,16,25),(7,9,14),(8,11,17)); lvl=2; h,r-ind=1,1
  [4,3]((5,7,11),(12,16,25),(21,28,44),(8,11,17)); lvl=2; h,r-ind=1,1
    [3,3]((21,28,44),(12,16,25),(17,23,36)); lvl=3; h,r-ind=1,1
    [3,3]((8,11,17),(12,16,25),(17,23,36)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,11),(8,11,17),(17,23,36)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,11),(21,28,44),(17,23,36)); lvl=3; h,r-ind=1,1
  [3,3]((5,7,11),(11,15,24),(9,12,19)); lvl=2; h,r-ind=1,1
  [6,3]((25,33,52),(20,26,41),(12,16,25),(21,28,44),(7,9,14),(11,14,22)); lvl=2; h,r-ind=1,1
    [3,3]((16,21,33),(25,33,52),(21,28,44)); lvl=3; h,r-ind=1,1
    [3,3]((12,16,25),(16,21,33),(21,28,44)); lvl=3; h,r-ind=1,1
    [3,3]((12,16,25),(16,21,33),(7,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((16,21,33),(20,26,41),(25,33,52)); lvl=3; h,r-ind=1,1
    [3,3]((16,21,33),(20,26,41),(11,14,22)); lvl=3; h,r-ind=1,1
    [3,3]((16,21,33),(7,9,14),(11,14,22)); lvl=3; h,r-ind=1,1
  [3,3]((7,9,14),(6,7,11),(11,14,22)); lvl=2; h,r-ind=1,1
  [4,3]((4,5,8),(20,26,41),(6,7,11),(11,14,22)); lvl=2; h,r-ind=1,1
    [3,3]((15,19,30),(20,26,41),(11,14,22)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,11),(15,19,30),(11,14,22)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,8),(6,7,11),(15,19,30)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((4,5,8),(15,19,30),(20,26,41)); lvl=3; h,r-ind=1,1
    [4,3]((5,7,11),(25,33,52),(9,12,19),(21,28,44)); lvl=2; h,r-ind=1,1
      [3,3]((30,40,63),(9,12,19),(25,33,52)); lvl=3; h,r-ind=1,1
      [3,3]((21,28,44),(30,40,63),(25,33,52)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(21,28,44),(30,40,63)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(30,40,63),(9,12,19)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,8),(25,33,52),(9,12,19),(20,26,41)); lvl=2; h,r-ind=1,1
      [3,3]((29,38,60),(25,33,52),(9,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(29,38,60),(9,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((20,26,41),(4,5,8),(29,38,60)); lvl=3; h,r-ind=1,1
      [3,3]((20,26,41),(29,38,60),(25,33,52)); lvl=3; h,r-ind=1,1
    [3,3]((11,15,24),(4,5,8),(9,12,19)); lvl=2; h,r-ind=1,1
  [3,3]((9,13,21),(11,15,24),(4,5,8)); lvl=1; h,r-ind=1,1
  [3,3]((9,13,21),(11,15,24),(5,7,11)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((5,7,11),(8,11,17),(10,14,21),(7,10,15)); lvl=1; h,r-ind=1,1
    [3,3]((10,14,21),(8,11,17),(15,21,32)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,11),(8,11,17),(15,21,32)); lvl=2; h,r-ind=1,1
    [3,3]((7,10,15),(5,7,11),(15,21,32)); lvl=2; h,r-ind=1,1
    [3,3]((7,10,15),(10,14,21),(15,21,32)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

21.90 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,14,21)); lvl=0; h,r-ind=21,21
  [4,3]((1,0,0),(1,1,1),(2,3,4),(3,4,6)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(5,6,8),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(3,4,6),(5,6,8),(2,3,4)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,7),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,7),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(4,5,7),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(5,6,8),(4,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(2,2,3),(1,1,1),(5,6,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=3; h,r-ind=1,1
  [3,3]((4,6,9),(2,3,4),(3,4,6)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,7),(3,5,6),(4,6,9),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,9),(2,3,4),(5,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(2,3,4),(5,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,7),(3,5,6),(5,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,7),(4,6,9),(5,8,11)); lvl=2; h,r-ind=1,1
  [3,3]((9,14,21),(3,5,7),(4,6,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,3),(3,5,6),(1,1,1),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(3,5,6),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(3,5,6),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,4),(4,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(3,5,6)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,5,7),(0,1,0),(3,5,6)); lvl=1; h,r-ind=3,3; optimized-h
```

21.91 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,19,21)); lvl=0; h,r-ind=21,147
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((7,13,14),(6,12,13),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((6,12,13),(1,2,2),(8,15,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(8,15,16)); lvl=2; h,r-ind=1,1
    [3,3]((7,13,14),(6,12,13),(8,15,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(7,13,14),(8,15,16)); lvl=2; h,r-ind=1,1
  [4,3]((6,11,12),(5,10,11),(7,13,14),(6,12,13)); lvl=1; h,r-ind=1,1
    [3,3]((5,10,11),(6,12,13),(12,23,25)); lvl=2; h,r-ind=1,1
    [3,3]((7,13,14),(6,12,13),(12,23,25)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,12),(7,13,14),(12,23,25)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,12),(5,10,11),(12,23,25)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(6,11,12),(5,10,11)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((6,11,12),(7,13,14),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((7,13,14),(2,3,3),(8,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(8,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,12),(7,13,14),(8,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(6,11,12),(8,14,15)); lvl=2; h,r-ind=1,1
```

```
  [3,3]((1,0,0),(6,11,12),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((9,20,21),(0,1,0),(1,2,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((9,20,21),(9,19,21),(1,2,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((9,19,21),(6,12,13),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((9,19,21),(5,10,11),(6,12,13)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(9,19,21),(5,10,11)); lvl=1; h,r-ind=1,1
```

21.92 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,20,21)); lvl=0; h,r-ind=21,147
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((9,20,21),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(9,20,21),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((9,20,21),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,7),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((9,20,21),(3,7,7),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

21.93 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,10,21)); lvl=0; h,r-ind=21,441
  [3,3]((2,2,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((10,10,21),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((10,10,21),(0,1,0),(1,1,2)); lvl=1; h,r-ind=1,1
```

21.94 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,18,21)); lvl=0; h,r-ind=21,147
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((11,18,21),(5,8,9),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((14,21,24),(9,14,16),(1,1,1),(5,8,9)); lvl=2; h,r-ind=1,1
      [3,3]((9,14,16),(5,8,9),(10,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(5,8,9),(10,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((14,21,24),(9,14,16),(10,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(14,21,24),(10,15,17)); lvl=3; h,r-ind=1,1
    [3,3]((8,13,15),(9,14,16),(5,8,9)); lvl=2; h,r-ind=1,1
    [4,3]((8,13,15),(4,6,7),(14,21,24),(9,14,16)); lvl=2; h,r-ind=1,1
      [3,3]((4,6,7),(14,21,24),(13,20,23)); lvl=3; h,r-ind=1,1
      [3,3]((9,14,16),(14,21,24),(13,20,23)); lvl=3; h,r-ind=1,1
      [3,3]((8,13,15),(9,14,16),(13,20,23)); lvl=3; h,r-ind=1,1
      [3,3]((8,13,15),(4,6,7),(13,20,23)); lvl=3; h,r-ind=1,1
    [3,3]((8,13,15),(11,18,21),(4,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,7),(14,21,24),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((14,21,24),(5,7,8),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(5,7,8),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(1,0,0),(5,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(14,21,24),(5,7,8)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,3),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((10,18,21),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((6,10,11),(5,9,10),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((7,12,13),(5,9,10),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(7,12,13),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((6,10,11),(2,3,3),(7,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((6,10,11),(7,12,13),(5,9,10)); lvl=2; h,r-ind=1,1
  [3,3]((10,18,21),(5,9,10),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((6,10,11),(5,8,9),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((7,11,12),(1,1,1),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((6,10,11),(7,11,12),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(6,10,11),(7,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(7,11,12),(1,1,1)); lvl=2; h,r-ind=1,1
  [5,3]((10,18,21),(11,18,21),(6,10,11),(5,9,10),(5,8,9)); lvl=1; h,r-ind=1,1
    [4,3]((4,7,8),(11,18,21),(8,13,15),(7,12,14)); lvl=2; h,r-ind=1,1
      [3,3]((8,13,15),(11,18,21),(15,25,29)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,14),(11,18,21),(15,25,29)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,8),(7,12,14),(15,25,29)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((4,7,8),(8,13,15),(15,25,29)); lvl=3; h,r-ind=1,1
    [3,3]((10,18,21),(4,7,8),(7,12,14)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(5,8,9),(8,13,15)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(6,10,11),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(6,10,11),(5,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((10,18,21),(4,7,8),(5,9,10)); lvl=2; h,r-ind=1,1
```

21.95 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,20,21)); lvl=0; h,r-ind=21,441
  [3,3]((10,20,21),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(10,20,21),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((10,20,21),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((10,20,21),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

21.96 Resolved

```
[3,3]((1,0,0),(0,1,0),(12,13,21)); lvl=0; h,r-ind=21,147
  [3,3]((2,2,3),(1,0,0),(7,7,11)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,8),(1,0,0),(7,7,11)); lvl=1; h,r-ind=1,1
  [4,3]((12,13,21),(5,5,8),(18,19,30),(7,7,11)); lvl=1; h,r-ind=1,1
    [3,3]((7,7,11),(5,5,8),(33,34,54)); lvl=2; h,r-ind=1,1
    [4,3]((12,13,21),(30,32,51),(5,5,8),(33,34,54)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((5,5,8),(21,22,35),(45,47,75),(33,34,54)); lvl=3; h,r-ind=1,3
        [3,3]((21,22,35),(26,27,43),(45,47,75)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,8),(26,27,43),(45,47,75)); lvl=4; h,r-ind=1,1
        [3,3]((33,34,54),(21,22,35),(26,27,43)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,8),(33,34,54),(26,27,43)); lvl=4; h,r-ind=1,1
      [3,3]((21,22,35),(14,15,24),(45,47,75)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((5,5,8),(12,13,21),(14,15,24),(45,47,75)); lvl=3; h,r-ind=1,3
        [3,3]((19,20,32),(14,15,24),(12,13,21)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,8),(19,20,32),(12,13,21)); lvl=4; h,r-ind=1,1
        [3,3]((45,47,75),(19,20,32),(14,15,24)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,8),(45,47,75),(19,20,32)); lvl=4; h,r-ind=1,1
      [3,3]((21,22,35),(30,32,51),(14,15,24)); lvl=3; h,r-ind=1,1
    [4,3]((18,19,30),(30,32,51),(7,7,11),(33,34,54)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((7,7,11),(51,53,84),(21,22,35),(33,34,54)); lvl=3; h,r-ind=1,3
        [3,3]((28,29,46),(51,53,84),(21,22,35)); lvl=4; h,r-ind=1,1
        [3,3]((33,34,54),(28,29,46),(21,22,35)); lvl=4; h,r-ind=1,1
        [3,3]((7,7,11),(33,34,54),(28,29,46)); lvl=4; h,r-ind=1,1
        [3,3]((7,7,11),(28,29,46),(51,53,84)); lvl=4; h,r-ind=1,1
      [3,3]((16,17,27),(51,53,84),(21,22,35)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((16,17,27),(30,32,51),(21,22,35)); lvl=3; h,r-ind=1,1
      [4,3]((18,19,30),(7,7,11),(16,17,27),(51,53,84)); lvl=3; h,r-ind=1,3
        [3,3]((7,7,11),(51,53,84),(23,24,38)); lvl=4; h,r-ind=1,1
        [3,3]((16,17,27),(51,53,84),(23,24,38)); lvl=4; h,r-ind=1,1
        [3,3]((18,19,30),(16,17,27),(23,24,38)); lvl=4; h,r-ind=1,1
        [3,3]((18,19,30),(7,7,11),(23,24,38)); lvl=4; h,r-ind=1,1
  [3,3]((12,13,21),(5,5,8),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((12,13,20),(18,19,30),(2,2,3),(11,12,18),(7,7,11)); lvl=1; h,r-ind=1,1
    [4,3]((17,18,28),(18,19,30),(15,16,25),(24,25,39)); lvl=2; h,r-ind=1,1
      [4,3]((69,73,114),(42,44,69),(15,16,25),(18,19,30)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((15,16,25),(87,92,144),(20,21,33),(18,19,30)); lvl=4; h,r-ind=1,3
          [3,3]((20,21,33),(35,37,58),(87,92,144)); lvl=5; h,r-ind=1,1
          [3,3]((15,16,25),(35,37,58),(87,92,144)); lvl=5; h,r-ind=1,1
          [3,3]((18,19,30),(20,21,33),(35,37,58)); lvl=5; h,r-ind=1,1
          [3,3]((15,16,25),(18,19,30),(35,37,58)); lvl=5; h,r-ind=1,1
        [3,3]((37,39,61),(87,92,144),(20,21,33)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((37,39,61),(42,44,69),(20,21,33)); lvl=4; h,r-ind=1,1
        [4,3]((15,16,25),(69,73,114),(37,39,61),(87,92,144)); lvl=4; h,r-ind=1,3
          [3,3]((52,55,86),(37,39,61),(69,73,114)); lvl=5; h,r-ind=1,1
          [3,3]((15,16,25),(52,55,86),(69,73,114)); lvl=5; h,r-ind=1,1
          [3,3]((87,92,144),(52,55,86),(37,39,61)); lvl=5; h,r-ind=1,1
          [3,3]((15,16,25),(87,92,144),(52,55,86)); lvl=5; h,r-ind=1,1
      [3,3]((17,18,28),(69,73,114),(15,16,25)); lvl=3; h,r-ind=1,1
      [4,3]((17,18,28),(69,73,114),(24,25,39),(42,44,69)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((22,23,36),(37,39,61),(42,44,69)); lvl=4; h,r-ind=1,1
        [3,3]((22,23,36),(93,98,153),(37,39,61)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((17,18,28),(69,73,114),(93,98,153),(37,39,61)); lvl=4; h,r-ind=1,3
          [3,3]((69,73,114),(37,39,61),(54,57,89)); lvl=5; h,r-ind=1,1
          [3,3]((93,98,153),(37,39,61),(54,57,89)); lvl=5; h,r-ind=1,1
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          [3,3]((17,18,28),(93,98,153),(54,57,89)); lvl=5; h,r-ind=1,1
          [3,3]((17,18,28),(69,73,114),(54,57,89)); lvl=5; h,r-ind=1,1
        [4,3]((17,18,28),(24,25,39),(22,23,36),(93,98,153)); lvl=4; h,r-ind=1,3
          [3,3]((39,41,64),(24,25,39),(22,23,36)); lvl=5; h,r-ind=1,1
          [3,3]((93,98,153),(39,41,64),(22,23,36)); lvl=5; h,r-ind=1,1
          [3,3]((17,18,28),(93,98,153),(39,41,64)); lvl=5; h,r-ind=1,1
          [3,3]((17,18,28),(39,41,64),(24,25,39)); lvl=5; h,r-ind=1,1
    [4,3]((2,2,3),(14,15,23),(17,18,28),(24,25,39)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((14,15,23),(19,20,31),(17,18,28)); lvl=3; h,r-ind=1,1
      [3,3]((24,25,39),(19,20,31),(17,18,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(24,25,39),(19,20,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(14,15,23),(19,20,31)); lvl=3; h,r-ind=1,1
    [3,3]((11,12,18),(2,2,3),(14,15,23)); lvl=2; h,r-ind=1,1
    [4,3]((12,13,20),(14,15,23),(17,18,28),(15,16,25)); lvl=2; h,r-ind=1,1
      [3,3]((29,31,48),(17,18,28),(14,15,23)); lvl=3; h,r-ind=1,1
      [3,3]((12,13,20),(29,31,48),(14,15,23)); lvl=3; h,r-ind=1,1
      [3,3]((15,16,25),(12,13,20),(29,31,48)); lvl=3; h,r-ind=1,1
      [3,3]((15,16,25),(29,31,48),(17,18,28)); lvl=3; h,r-ind=1,1
    [3,3]((12,13,20),(11,12,18),(14,15,23)); lvl=2; h,r-ind=1,1
    [3,3]((7,7,11),(18,19,30),(24,25,39)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,3),(7,7,11),(24,25,39)); lvl=2; h,r-ind=1,1
  [4,3]((12,13,21),(12,13,20),(10,11,17),(18,19,30)); lvl=1; h,r-ind=2,1
    [3,3]((13,14,22),(12,13,20),(15,16,25)); lvl=2; h,r-ind=1,1
    [4,3]((13,14,22),(30,32,51),(18,19,30),(15,16,25)); lvl=2; h,r-ind=1,1
      [4,3]((15,16,25),(18,19,30),(16,17,27),(44,47,74)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((16,17,27),(18,19,30),(31,33,52)); lvl=4; h,r-ind=1,1
        [3,3]((15,16,25),(18,19,30),(31,33,52)); lvl=4; h,r-ind=1,1
        [3,3]((44,47,74),(16,17,27),(31,33,52)); lvl=4; h,r-ind=1,1
        [3,3]((15,16,25),(44,47,74),(31,33,52)); lvl=4; h,r-ind=1,1
      [3,3]((13,14,22),(16,17,27),(44,47,74)); lvl=3; h,r-ind=1,1
      [3,3]((13,14,22),(30,32,51),(16,17,27)); lvl=3; h,r-ind=1,1
      [3,3]((13,14,22),(15,16,25),(44,47,74)); lvl=3; h,r-ind=1,1
    [4,3]((11,12,19),(12,13,21),(13,14,22),(30,32,51)); lvl=2; h,r-ind=1,1
      [3,3]((13,14,22),(14,15,24),(30,32,51)); lvl=3; h,r-ind=1,1
      [3,3]((13,14,22),(38,41,65),(14,15,24)); lvl=3; h,r-ind=1,1
      [4,3]((11,12,19),(38,41,65),(12,13,21),(14,15,24)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((25,27,43),(38,41,65),(14,15,24)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,21),(25,27,43),(14,15,24)); lvl=4; h,r-ind=1,1
        [3,3]((11,12,19),(12,13,21),(25,27,43)); lvl=4; h,r-ind=1,1
        [3,3]((11,12,19),(25,27,43),(38,41,65)); lvl=4; h,r-ind=1,1
      [3,3]((13,14,22),(11,12,19),(38,41,65)); lvl=3; h,r-ind=1,1
    [3,3]((13,14,22),(10,11,17),(12,13,20)); lvl=2; h,r-ind=1,1
    [3,3]((11,12,19),(13,14,22),(10,11,17)); lvl=2; h,r-ind=1,1
[5,3]((3,3,4),(6,7,9),(2,2,3),(11,12,18),(8,9,13)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(11,12,18),(10,11,16)); lvl=2; h,r-ind=1,1
  [3,3]((8,9,13),(11,12,18),(10,11,16)); lvl=2; h,r-ind=1,1
  [4,3]((9,10,14),(7,8,11),(8,9,13),(10,11,16)); lvl=2; h,r-ind=1,1
    [3,3]((17,19,27),(8,9,13),(7,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((9,10,14),(17,19,27),(7,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((10,11,16),(9,10,14),(17,19,27)); lvl=3; h,r-ind=1,1
    [3,3]((10,11,16),(17,19,27),(8,9,13)); lvl=3; h,r-ind=1,1
  [4,3]((12,13,18),(9,10,14),(2,2,3),(10,11,16)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((9,10,14),(10,11,16),(11,12,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(10,11,16),(11,12,17)); lvl=3; h,r-ind=1,1
    [3,3]((12,13,18),(9,10,14),(11,12,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(12,13,18),(11,12,17)); lvl=3; h,r-ind=1,1
  [4,3]((12,13,18),(9,10,14),(7,8,11),(6,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((7,8,11),(9,10,14),(33,37,51)); lvl=3; h,r-ind=1,1
    [4,3]((12,13,18),(18,20,27),(9,10,14),(33,37,51)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((9,10,14),(45,50,69),(17,19,26),(33,37,51)); lvl=4; h,r-ind=1,3
        [3,3]((26,29,40),(45,50,69),(17,19,26)); lvl=5; h,r-ind=1,1
        [3,3]((33,37,51),(26,29,40),(17,19,26)); lvl=5; h,r-ind=1,1
        [3,3]((9,10,14),(33,37,51),(26,29,40)); lvl=5; h,r-ind=1,1
        [3,3]((9,10,14),(26,29,40),(45,50,69)); lvl=5; h,r-ind=1,1
      [3,3]((10,11,15),(45,50,69),(17,19,26)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((9,10,14),(12,13,18),(10,11,15),(45,50,69)); lvl=4; h,r-ind=1,3
        [3,3]((19,21,29),(12,13,18),(10,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((45,50,69),(19,21,29),(10,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((9,10,14),(45,50,69),(19,21,29)); lvl=5; h,r-ind=1,1
        [3,3]((9,10,14),(19,21,29),(12,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((10,11,15),(17,19,26),(18,20,27)); lvl=4; h,r-ind=1,1
    [4,3]((6,7,9),(18,20,27),(7,8,11),(33,37,51)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((8,9,12),(17,19,26),(18,20,27)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,12),(39,44,60),(17,19,26)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((7,8,11),(39,44,60),(33,37,51),(17,19,26)); lvl=4; h,r-ind=1,3
        [3,3]((39,44,60),(24,27,37),(17,19,26)); lvl=5; h,r-ind=1,1
        [3,3]((33,37,51),(24,27,37),(17,19,26)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,11),(33,37,51),(24,27,37)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,11),(39,44,60),(24,27,37)); lvl=5; h,r-ind=1,1
      [4,3]((7,8,11),(6,7,9),(8,9,12),(39,44,60)); lvl=4; h,r-ind=1,3
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        [3,3]((6,7,9),(15,17,23),(8,9,12)); lvl=5; h,r-ind=1,1
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        [3,3]((7,8,11),(39,44,60),(15,17,23)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,11),(6,7,9),(15,17,23)); lvl=5; h,r-ind=1,1
  [3,3]((3,3,4),(12,13,18),(6,7,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((3,3,4),(12,13,18),(2,2,3)); lvl=2; h,r-ind=1,1
[6,3]((7,8,12),(12,13,20),(10,11,17),(11,12,18),(8,9,13),(6,7,10)); lvl=1; h,r-ind=1,1
  [3,3]((9,10,15),(8,9,13),(6,7,10)); lvl=2; h,r-ind=1,1
  [3,3]((7,8,12),(9,10,15),(6,7,10)); lvl=2; h,r-ind=1,1
  [3,3]((10,11,17),(7,8,12),(9,10,15)); lvl=2; h,r-ind=1,1
  [3,3]((12,13,20),(10,11,17),(9,10,15)); lvl=2; h,r-ind=1,1
  [3,3]((11,12,18),(9,10,15),(8,9,13)); lvl=2; h,r-ind=1,1
  [3,3]((12,13,20),(11,12,18),(9,10,15)); lvl=2; h,r-ind=1,1
[4,3]((12,13,21),(12,14,21),(7,8,12),(10,11,17)); lvl=1; h,r-ind=1,1
  [4,3]((7,8,12),(8,9,14),(12,14,21),(33,37,57)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((15,17,26),(8,9,14),(12,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((7,8,12),(15,17,26),(12,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((33,37,57),(15,17,26),(8,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((7,8,12),(33,37,57),(15,17,26)); lvl=3; h,r-ind=1,1
  [4,3]((10,11,17),(18,20,31),(7,8,12),(33,37,57)); lvl=2; h,r-ind=1,1
    [3,3]((25,28,43),(33,37,57),(18,20,31)); lvl=3; h,r-ind=1,1
    [3,3]((10,11,17),(25,28,43),(18,20,31)); lvl=3; h,r-ind=1,1
    [3,3]((7,8,12),(10,11,17),(25,28,43)); lvl=3; h,r-ind=1,1
    [3,3]((7,8,12),(25,28,43),(33,37,57)); lvl=3; h,r-ind=1,1
  [4,3]((11,12,19),(18,20,31),(8,9,14),(33,37,57)); lvl=2; h,r-ind=1,1
    [3,3]((18,20,31),(26,29,45),(33,37,57)); lvl=3; h,r-ind=1,1
    [3,3]((8,9,14),(26,29,45),(33,37,57)); lvl=3; h,r-ind=1,1
    [3,3]((11,12,19),(18,20,31),(26,29,45)); lvl=3; h,r-ind=1,1
    [3,3]((8,9,14),(11,12,19),(26,29,45)); lvl=3; h,r-ind=1,1
  [3,3]((12,13,21),(11,12,19),(8,9,14)); lvl=2; h,r-ind=1,1
  [3,3]((10,11,17),(11,12,19),(18,20,31)); lvl=2; h,r-ind=1,1
[3,3]((3,3,4),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
[3,3]((3,3,4),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
[3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
[4,3]((0,1,0),(3,3,4),(6,7,9),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((6,8,9),(6,7,9),(3,3,4),(9,10,12)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((3,3,4),(6,7,9),(4,5,6),(15,17,21)); lvl=3; h,r-ind=1,3
      [3,3]((4,5,6),(7,8,10),(6,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,4),(7,8,10),(6,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((15,17,21),(3,3,4),(7,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((15,17,21),(4,5,6),(7,8,10)); lvl=4; h,r-ind=1,1
    [3,3]((5,6,7),(4,5,6),(15,17,21)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((6,8,9),(5,6,7),(4,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,7),(9,10,12),(3,3,4),(15,17,21)); lvl=3; h,r-ind=1,3
      [3,3]((8,9,11),(3,3,4),(9,10,12)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,7),(8,9,11),(9,10,12)); lvl=4; h,r-ind=1,1
      [3,3]((15,17,21),(8,9,11),(3,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,7),(15,17,21),(8,9,11)); lvl=4; h,r-ind=1,1
  [3,3]((1,1,1),(3,3,4),(9,10,12)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,1,1),(6,8,9),(9,10,12)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((5,6,7),(9,11,12),(1,1,1),(9,10,12)); lvl=3; h,r-ind=1,3
      [3,3]((9,11,12),(1,1,1),(6,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((9,10,12),(1,1,1),(6,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,7),(9,10,12),(6,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,7),(9,11,12),(6,7,8)); lvl=4; h,r-ind=1,1
    [3,3]((5,6,7),(2,3,3),(9,11,12)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((6,8,9),(5,6,7),(2,3,3)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(2,3,3),(9,11,12),(1,1,1)); lvl=3; h,r-ind=1,3
      [3,3]((3,4,4),(2,3,3),(9,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,4),(1,1,1),(9,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=4; h,r-ind=1,1
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[4,3]((0,1,0),(6,7,9),(8,9,13),(6,7,10)); lvl=1; h,r-ind=2,1
  [3,3]((5,6,8),(8,9,13),(7,8,11)); lvl=2; h,r-ind=1,1
  [4,3]((6,8,9),(5,6,8),(6,7,9),(7,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,8),(7,8,11),(16,19,25)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,6),(6,7,9),(7,8,11),(16,19,25)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((6,7,9),(11,13,17),(7,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((16,19,25),(11,13,17),(7,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,6),(16,19,25),(11,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,6),(6,7,9),(11,13,17)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,6),(5,6,8),(16,19,25)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,6),(6,8,9),(5,6,8)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,5),(0,1,0),(6,8,9),(5,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,8),(2,3,3),(10,13,16)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,5),(0,1,0),(2,3,3),(10,13,16)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,3),(0,1,0),(5,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,5),(0,1,0),(5,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((10,13,16),(3,4,5),(5,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((10,13,16),(2,3,3),(5,7,8)); lvl=4; h,r-ind=1,1
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      [3,3]((5,6,8),(3,4,5),(10,13,16)); lvl=3; h,r-ind=1,1
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    [3,3]((6,7,10),(5,6,8),(8,9,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(6,7,10),(5,6,8)); lvl=2; h,r-ind=1,1
  [4,3]((12,14,21),(7,8,12),(0,1,0),(6,7,10)); lvl=1; h,r-ind=1,1
    [4,3]((7,8,12),(21,25,36),(6,7,10),(10,12,17)); lvl=2; h,r-ind=1,1
      [3,3]((17,20,29),(21,25,36),(10,12,17)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,10),(17,20,29),(10,12,17)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,12),(6,7,10),(17,20,29)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,12),(17,20,29),(21,25,36)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(6,7,10),(10,12,17)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,7),(3,4,5),(21,25,36),(10,12,17)); lvl=2; h,r-ind=1,1
      [3,3]((14,17,24),(3,4,5),(10,12,17)); lvl=3; h,r-ind=1,1
      [3,3]((21,25,36),(14,17,24),(10,12,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(21,25,36),(14,17,24)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(14,17,24),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,7),(0,1,0),(3,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((12,14,21),(4,5,7),(7,8,12),(21,25,36)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((4,5,7),(11,13,19),(21,25,36)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,12),(11,13,19),(21,25,36)); lvl=3; h,r-ind=1,1
      [3,3]((12,14,21),(7,8,12),(11,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((12,14,21),(4,5,7),(11,13,19)); lvl=3; h,r-ind=1,1
```

21.97 Resolved

```
[3,3]((1,0,0),(0,1,0),(12,14,21)); lvl=0; h,r-ind=21,21
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((6,8,9),(1,1,1),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((3,4,5),(6,8,9),(7,9,11),(0,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,5),(2,3,3),(12,16,19)); lvl=2; h,r-ind=1,1
    [4,3]((7,9,11),(6,8,9),(2,3,3),(12,16,19)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,3),(6,8,9),(9,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,11),(6,8,9),(9,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((12,16,19),(2,3,3),(9,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,11),(12,16,19),(9,12,14)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,11),(3,4,5),(12,16,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(0,1,0),(2,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,7),(3,4,5),(0,1,0)); lvl=1; h,r-ind=1,1
  [5,3]((2,2,3),(6,8,9),(7,9,11),(5,6,8),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,6),(5,6,8),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(4,5,6),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,11),(4,5,6),(5,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((6,8,9),(7,9,11),(4,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(6,8,9),(4,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((2,2,3),(9,10,15),(6,7,10),(5,6,8)); lvl=1; h,r-ind=1,1
    [3,3]((8,9,13),(9,10,15),(6,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,8),(8,9,13),(6,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(5,6,8),(8,9,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(8,9,13),(9,10,15)); lvl=2; h,r-ind=1,1
  [5,3]((4,5,7),(6,7,10),(3,4,5),(7,9,11),(5,6,8)); lvl=1; h,r-ind=1,1
    [3,3]((8,10,13),(7,9,11),(5,6,8)); lvl=2; h,r-ind=1,1
    [4,3]((8,10,13),(17,21,28),(14,17,23),(5,6,8)); lvl=2; h,r-ind=1,1
      [3,3]((22,27,36),(17,21,28),(14,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(22,27,36),(14,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,13),(5,6,8),(22,27,36)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,13),(22,27,36),(17,21,28)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,10),(14,17,23),(5,6,8)); lvl=2; h,r-ind=1,1
    [5,3]((4,5,7),(12,15,20),(6,7,10),(17,21,28),(14,17,23)); lvl=2; h,r-ind=1,1
      [3,3]((9,11,15),(14,17,23),(17,21,28)); lvl=3; h,r-ind=1,1
      [3,3]((12,15,20),(9,11,15),(17,21,28)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(12,15,20),(9,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,15),(6,7,10),(14,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(9,11,15),(6,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((8,10,13),(3,4,5),(7,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((12,15,20),(8,10,13),(17,21,28),(3,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((20,25,33),(8,10,13),(17,21,28)); lvl=3; h,r-ind=1,1
      [3,3]((12,15,20),(20,25,33),(17,21,28)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(20,25,33),(8,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((12,15,20),(3,4,5),(20,25,33)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,7),(12,15,20),(3,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((9,10,15),(12,14,21),(4,5,7),(6,7,10)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,7),(7,8,12),(17,20,29)); lvl=2; h,r-ind=1,1
    [4,3]((9,10,15),(6,7,10),(7,8,12),(17,20,29)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,7,10),(17,20,29),(13,15,22)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,12),(17,20,29),(13,15,22)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,15),(6,7,10),(13,15,22)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((7,8,12),(9,10,15),(13,15,22)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,10),(4,5,7),(17,20,29)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,7),(12,14,21),(7,8,12)); lvl=2; h,r-ind=1,1
```

21.98 Resolved

```
[3,3]((1,0,0),(0,1,0),(12,20,21)); lvl=0; h,r-ind=21,147
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((12,20,21),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((12,20,21),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(4,7,7)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((12,20,21),(2,3,3),(4,7,7)); lvl=1; h,r-ind=2,2; optimized-h
```

21.99 Resolved

```
[3,3]((1,0,0),(0,1,0),(13,13,21)); lvl=0; h,r-ind=21,441
  [3,3]((1,0,0),(7,7,11),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(7,7,11),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,4),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,8),(1,0,0),(7,7,11)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,5,8),(7,7,11)); lvl=1; h,r-ind=1,1
  [3,3]((13,13,21),(0,1,0),(5,5,8)); lvl=1; h,r-ind=1,1
  [3,3]((13,13,21),(5,5,8),(1,0,0)); lvl=1; h,r-ind=1,1
```

21.100 Resolved

```
[3,3]((1,0,0),(0,1,0),(13,15,21)); lvl=0; h,r-ind=21,147
  [6,3]((5,6,7),(3,4,4),(6,7,9),(9,11,14),(7,9,11),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(4,5,6),(3,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,7),(4,5,6),(3,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,7),(6,7,9),(4,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(4,5,6),(7,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((9,11,14),(4,5,6),(7,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,9),(9,11,14),(4,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(7,9,11),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,4),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,7),(1,1,1),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,8),(9,11,14),(7,9,11)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,6,8),(7,9,11)); lvl=1; h,r-ind=1,1
  [5,3]((4,4,5),(5,6,7),(1,1,1),(14,16,21),(6,7,9)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(7,8,10),(5,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,9),(7,8,10),(5,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((14,16,21),(6,7,9),(15,17,22),(22,25,32)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,9),(21,24,31),(22,25,32)); lvl=3; h,r-ind=1,1
      [3,3]((15,17,22),(21,24,31),(22,25,32)); lvl=3; h,r-ind=1,1
      [3,3]((15,17,22),(14,16,21),(21,24,31)); lvl=3; h,r-ind=1,1
      [3,3]((14,16,21),(6,7,9),(21,24,31)); lvl=3; h,r-ind=1,1
    [3,3]((9,10,13),(14,16,21),(15,17,22)); lvl=2; h,r-ind=1,1
    [4,3]((17,19,24),(23,26,33),(1,1,1),(7,8,10)); lvl=2; h,r-ind=1,1
      [3,3]((23,26,33),(7,8,10),(24,27,34)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(7,8,10),(24,27,34)); lvl=3; h,r-ind=1,1
      [3,3]((17,19,24),(23,26,33),(24,27,34)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(17,19,24),(24,27,34)); lvl=3; h,r-ind=1,1
    [4,3]((6,7,9),(22,25,32),(23,26,33),(7,8,10)); lvl=2; h,r-ind=1,1
      [3,3]((23,26,33),(22,25,32),(29,33,42)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,9),(22,25,32),(29,33,42)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,10),(6,7,9),(29,33,42)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,10),(23,26,33),(29,33,42)); lvl=3; h,r-ind=1,1
    [6,3]((9,10,13),(15,17,22),(10,11,14),(17,19,24),(22,25,32),(23,26,33)); lvl=2; h,r-ind=1,1
      [3,3]((22,25,32),(15,17,22),(16,18,23)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,13),(15,17,22),(16,18,23)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,13),(10,11,14),(16,18,23)); lvl=3; h,r-ind=1,1
      [3,3]((22,25,32),(23,26,33),(16,18,23)); lvl=3; h,r-ind=1,1
      [3,3]((17,19,24),(23,26,33),(16,18,23)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((10,11,14),(17,19,24),(16,18,23)); lvl=3; h,r-ind=1,1
    [3,3]((4,4,5),(9,10,13),(10,11,14)); lvl=2; h,r-ind=1,1
    [4,3]((4,4,5),(10,11,14),(17,19,24),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((11,12,15),(17,19,24),(10,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,4,5),(11,12,15),(10,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(4,4,5),(11,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(11,12,15),(17,19,24)); lvl=3; h,r-ind=1,1
  [4,3]((14,15,21),(1,0,0),(4,4,5),(14,16,21)); lvl=1; h,r-ind=1,1
    [3,3]((3,3,4),(4,4,5),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((5,5,7),(3,3,4),(1,0,0)); lvl=2; h,r-ind=1,1
    [4,3]((14,15,21),(10,11,15),(5,5,7),(3,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((5,5,7),(3,3,4),(20,21,29)); lvl=3; h,r-ind=1,1
      [4,3]((12,13,18),(10,11,15),(3,3,4),(20,21,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((15,16,22),(10,11,15),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((20,21,29),(15,16,22),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,18),(20,21,29),(15,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,18),(15,16,22),(10,11,15)); lvl=4; h,r-ind=1,1
      [4,3]((14,15,21),(12,13,18),(5,5,7),(20,21,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((12,13,18),(20,21,29),(17,18,25)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,7),(20,21,29),(17,18,25)); lvl=4; h,r-ind=1,1
        [3,3]((14,15,21),(5,5,7),(17,18,25)); lvl=4; h,r-ind=1,1
        [3,3]((14,15,21),(12,13,18),(17,18,25)); lvl=4; h,r-ind=1,1
    [3,3]((3,3,4),(9,10,13),(4,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((8,9,12),(3,3,4),(9,10,13),(14,16,21)); lvl=2; h,r-ind=1,1
      [3,3]((17,19,25),(9,10,13),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,12),(17,19,25),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((14,16,21),(8,9,12),(17,19,25)); lvl=3; h,r-ind=1,1
      [3,3]((14,16,21),(17,19,25),(9,10,13)); lvl=3; h,r-ind=1,1
    [3,3]((10,11,15),(8,9,12),(3,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(4,4,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [5,3]((5,6,8),(14,16,21),(6,7,9),(9,11,14),(12,14,19)); lvl=1; h,r-ind=1,1
    [3,3]((9,11,14),(11,13,17),(5,6,8)); lvl=2; h,r-ind=1,1
    [4,3]((35,41,54),(29,34,45),(11,13,17),(5,6,8)); lvl=2; h,r-ind=1,1
      [3,3]((29,34,45),(40,47,62),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((11,13,17),(40,47,62),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((35,41,54),(29,34,45),(40,47,62)); lvl=3; h,r-ind=1,1
      [3,3]((11,13,17),(35,41,54),(40,47,62)); lvl=3; h,r-ind=1,1
    [4,3]((12,14,19),(18,21,28),(29,34,45),(5,6,8)); lvl=2; h,r-ind=1,1
      [3,3]((23,27,36),(18,21,28),(29,34,45)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(23,27,36),(29,34,45)); lvl=3; h,r-ind=1,1
      [3,3]((12,14,19),(5,6,8),(23,27,36)); lvl=3; h,r-ind=1,1
      [3,3]((12,14,19),(23,27,36),(18,21,28)); lvl=3; h,r-ind=1,1
    [3,3]((13,15,20),(12,14,19),(18,21,28)); lvl=2; h,r-ind=1,1
    [6,3]((13,15,20),(19,22,29),(30,35,46),(18,21,28),(35,41,54),(29,34,45)); lvl=2; h,r-ind=1,1
      [3,3]((24,28,37),(35,41,54),(30,35,46)); lvl=3; h,r-ind=1,1
      [3,3]((19,22,29),(24,28,37),(30,35,46)); lvl=3; h,r-ind=1,1
      [3,3]((13,15,20),(19,22,29),(24,28,37)); lvl=3; h,r-ind=1,1
      [3,3]((24,28,37),(29,34,45),(35,41,54)); lvl=3; h,r-ind=1,1
      [3,3]((24,28,37),(29,34,45),(18,21,28)); lvl=3; h,r-ind=1,1
      [3,3]((13,15,20),(24,28,37),(18,21,28)); lvl=3; h,r-ind=1,1
    [3,3]((14,16,21),(13,15,20),(19,22,29)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,9),(9,11,14),(11,13,17)); lvl=2; h,r-ind=1,1
    [4,3]((30,35,46),(35,41,54),(6,7,9),(11,13,17)); lvl=2; h,r-ind=1,1
      [3,3]((41,48,63),(11,13,17),(35,41,54)); lvl=3; h,r-ind=1,1
      [3,3]((30,35,46),(41,48,63),(35,41,54)); lvl=3; h,r-ind=1,1
      [3,3]((41,48,63),(6,7,9),(11,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((30,35,46),(41,48,63),(6,7,9)); lvl=3; h,r-ind=1,1
    [4,3]((14,16,21),(19,22,29),(30,35,46),(6,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((25,29,38),(19,22,29),(30,35,46)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,9),(25,29,38),(30,35,46)); lvl=3; h,r-ind=1,1
      [3,3]((14,16,21),(6,7,9),(25,29,38)); lvl=3; h,r-ind=1,1
      [3,3]((14,16,21),(25,29,38),(19,22,29)); lvl=3; h,r-ind=1,1
  [3,3]((13,15,21),(5,6,8),(12,14,19)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(13,15,21),(5,6,8)); lvl=1; h,r-ind=1,1
  [4,3]((13,15,21),(14,15,21),(14,16,21),(12,14,19)); lvl=1; h,r-ind=1,1
    [3,3]((7,8,11),(8,9,12),(10,11,15)); lvl=2; h,r-ind=1,1
    [4,3]((9,10,14),(7,8,11),(14,15,21),(10,11,15)); lvl=2; h,r-ind=1,1
      [4,3]((28,31,43),(12,13,18),(7,8,11),(10,11,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((12,13,18),(10,11,15),(19,21,29)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,11),(10,11,15),(19,21,29)); lvl=4; h,r-ind=1,1
        [3,3]((28,31,43),(12,13,18),(19,21,29)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,11),(28,31,43),(19,21,29)); lvl=4; h,r-ind=1,1
      [3,3]((9,10,14),(28,31,43),(7,8,11)); lvl=3; h,r-ind=1,1
      [4,3]((9,10,14),(28,31,43),(14,15,21),(12,13,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((21,23,32),(28,31,43),(12,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((14,15,21),(21,23,32),(12,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,14),(14,15,21),(21,23,32)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,14),(21,23,32),(28,31,43)); lvl=4; h,r-ind=1,1
    [3,3]((13,15,21),(9,10,14),(7,8,11)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((7,8,11),(14,16,21),(8,9,12),(13,15,20)); lvl=2; h,r-ind=1,1
      [3,3]((21,24,32),(14,16,21),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,11),(21,24,32),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((13,15,20),(21,24,32),(14,16,21)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,11),(13,15,20),(21,24,32)); lvl=3; h,r-ind=1,1
    [3,3]((12,14,19),(7,8,11),(13,15,20)); lvl=2; h,r-ind=1,1
    [3,3]((13,15,21),(12,14,19),(7,8,11)); lvl=2; h,r-ind=1,1
```

21.101 Resolved

```
[3,3]((1,0,0),(0,1,0),(13,18,21)); lvl=0; h,r-ind=21,147
  [4,3]((6,8,9),(8,11,12),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((8,11,12),(9,12,13),(3,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(9,12,13),(3,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((6,8,9),(8,11,12),(9,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(6,8,9),(9,12,13)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(6,8,9),(14,18,21),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((10,13,15),(5,6,7),(17,21,24),(11,14,16)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,7),(17,21,24),(16,20,23)); lvl=3; h,r-ind=1,1
      [3,3]((11,14,16),(17,21,24),(16,20,23)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,15),(11,14,16),(16,20,23)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,15),(5,6,7),(16,20,23)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(6,8,9),(17,21,24),(11,14,16)); lvl=2; h,r-ind=1,1
      [3,3]((12,15,17),(6,8,9),(11,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((17,21,24),(12,15,17),(11,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(17,21,24),(12,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(12,15,17),(6,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((6,8,9),(10,13,15),(11,14,16)); lvl=2; h,r-ind=1,1
    [3,3]((14,18,21),(10,13,15),(5,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(1,0,0),(5,6,7),(17,21,24)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((6,7,8),(5,6,7),(1,0,0)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(6,7,8),(1,0,0)); lvl=3; h,r-ind=1,1
      [3,3]((17,21,24),(6,7,8),(5,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(17,21,24),(6,7,8)); lvl=3; h,r-ind=1,1
  [4,3]((13,18,21),(6,8,9),(5,7,8),(14,18,21)); lvl=1; h,r-ind=1,1
    [3,3]((10,13,15),(6,8,9),(15,20,23)); lvl=2; h,r-ind=1,1
    [4,3]((5,7,8),(29,39,45),(6,8,9),(15,20,23)); lvl=2; h,r-ind=1,1
      [3,3]((6,8,9),(20,27,31),(15,20,23)); lvl=3; h,r-ind=1,1
      [3,3]((29,39,45),(20,27,31),(15,20,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,8),(6,8,9),(20,27,31)); lvl=3; h,r-ind=1,1
      [3,3]((29,39,45),(5,7,8),(20,27,31)); lvl=3; h,r-ind=1,1
    [4,3]((9,12,14),(13,18,21),(5,7,8),(29,39,45)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((14,19,22),(13,18,21),(5,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((29,39,45),(14,19,22),(5,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,14),(29,39,45),(14,19,22)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,14),(14,19,22),(13,18,21)); lvl=3; h,r-ind=1,1
    [4,3]((9,12,14),(29,39,45),(10,13,15),(15,20,23)); lvl=2; h,r-ind=1,1
      [3,3]((24,32,37),(29,39,45),(15,20,23)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,15),(24,32,37),(15,20,23)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,14),(10,13,15),(24,32,37)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,14),(24,32,37),(29,39,45)); lvl=3; h,r-ind=1,1
    [3,3]((14,18,21),(9,12,14),(10,13,15)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(7,10,11),(8,11,12),(3,4,4)); lvl=1; h,r-ind=1,4
    [3,3]((2,3,3),(7,10,11),(8,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,4),(2,3,3),(8,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,4,4),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(7,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,8),(0,1,0),(7,10,11)); lvl=1; h,r-ind=1,1
  [3,3]((13,18,21),(5,7,8),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((6,8,9),(5,7,8),(7,10,11),(8,11,12)); lvl=1; h,r-ind=1,1
    [3,3]((13,18,20),(7,10,11),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((6,8,9),(13,18,20),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((8,11,12),(13,18,20),(7,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((6,8,9),(8,11,12),(13,18,20)); lvl=2; h,r-ind=1,1
```

21.102 Resolved

```
[3,3]((1,0,0),(0,1,0),(14,15,21)); lvl=0; h,r-ind=21,21
  [4,3]((14,16,21),(4,4,5),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((12,13,16),(21,23,28),(1,1,1),(4,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(13,14,17),(21,23,28)); lvl=3; h,r-ind=1,1
      [3,3]((12,13,16),(13,14,17),(21,23,28)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((4,4,5),(12,13,16),(13,14,17)); lvl=3; h,r-ind=1,1
    [3,3]((4,4,5),(1,1,1),(13,14,17)); lvl=3; h,r-ind=1,1
  [3,3]((9,10,13),(12,13,16),(4,4,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((4,5,6),(21,23,28),(8,9,11),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((9,10,12),(21,23,28),(8,9,11)); lvl=3; h,r-ind=1,1
    [4,3]((13,15,18),(14,16,19),(9,10,12),(8,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((14,16,19),(9,10,12),(22,25,30)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,11),(9,10,12),(22,25,30)); lvl=4; h,r-ind=1,1
      [3,3]((13,15,18),(14,16,19),(22,25,30)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,11),(13,15,18),(22,25,30)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,6),(13,15,18),(8,9,11)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,6),(6,7,8),(13,15,18),(14,16,19)); lvl=3; h,r-ind=1,1
      [4,3]((5,6,7),(32,37,44),(14,16,19),(6,7,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((19,22,26),(32,37,44),(14,16,19)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,8),(19,22,26),(14,16,19)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,7),(6,7,8),(19,22,26)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,7),(19,22,26),(32,37,44)); lvl=5; h,r-ind=1,1
      [3,3]((13,15,18),(32,37,44),(14,16,19)); lvl=4; h,r-ind=1,1
      [4,3]((5,6,7),(4,5,6),(13,15,18),(32,37,44)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((13,15,18),(4,5,6),(18,21,25)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,7),(4,5,6),(18,21,25)); lvl=5; h,r-ind=1,1
        [3,3]((32,37,44),(13,15,18),(18,21,25)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,7),(32,37,44),(18,21,25)); lvl=5; h,r-ind=1,1
    [3,3]((4,5,6),(2,3,3),(6,7,8)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,1),(9,10,12),(21,23,28)); lvl=3; h,r-ind=1,1
    [4,3]((6,7,8),(14,16,19),(1,1,1),(9,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,12),(14,16,19),(15,17,20)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,8),(14,16,19),(15,17,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(6,7,8),(15,17,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(9,10,12),(15,17,20)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,3),(6,7,8),(0,1,0),(1,1,1)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,4),(6,7,8),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,3),(0,1,0),(3,4,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,4),(6,7,8)); lvl=4; h,r-ind=1,1
  [5,3]((6,7,9),(9,10,13),(12,13,16),(21,23,28),(8,9,11)); lvl=2; h,r-ind=1,1
    [5,3]((7,8,10),(6,7,9),(18,20,25),(9,10,13),(21,23,29)); lvl=3; h,r-ind=1,1
      [4,3]((6,7,9),(23,26,33),(10,11,14),(9,10,13)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((10,11,14),(16,18,23),(23,26,33)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,9),(16,18,23),(23,26,33)); lvl=5; h,r-ind=1,1
        [3,3]((9,10,13),(6,7,9),(16,18,23)); lvl=5; h,r-ind=1,1
        [3,3]((9,10,13),(10,11,14),(16,18,23)); lvl=5; h,r-ind=1,1
      [4,3]((7,8,10),(35,39,49),(23,26,33),(10,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((17,19,24),(35,39,49),(10,11,14)); lvl=5; h,r-ind=1,1
        [3,3]((23,26,33),(17,19,24),(10,11,14)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,10),(17,19,24),(35,39,49)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,10),(23,26,33),(17,19,24)); lvl=5; h,r-ind=1,1
      [4,3]((35,39,49),(18,20,25),(21,23,29),(10,11,14)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((28,31,39),(18,20,25),(21,23,29)); lvl=5; h,r-ind=1,1
        [3,3]((10,11,14),(28,31,39),(21,23,29)); lvl=5; h,r-ind=1,1
        [3,3]((35,39,49),(28,31,39),(18,20,25)); lvl=5; h,r-ind=1,1
        [3,3]((10,11,14),(35,39,49),(28,31,39)); lvl=5; h,r-ind=1,1
      [3,3]((7,8,10),(35,39,49),(18,20,25)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,10),(6,7,9),(23,26,33)); lvl=4; h,r-ind=1,1
    [4,3]((18,20,25),(12,13,16),(20,22,27),(21,23,29)); lvl=3; h,r-ind=1,1
      [4,3]((11,12,15),(19,21,26),(20,22,27),(12,13,16)); lvl=4; h,r-ind=1,1
        [3,3]((20,22,27),(19,21,26),(31,34,42)); lvl=5; h,r-ind=1,1
        [3,3]((11,12,15),(19,21,26),(31,34,42)); lvl=5; h,r-ind=1,1
        [3,3]((12,13,16),(11,12,15),(31,34,42)); lvl=5; h,r-ind=1,1
        [3,3]((12,13,16),(20,22,27),(31,34,42)); lvl=5; h,r-ind=1,1
      [3,3]((18,20,25),(11,12,15),(19,21,26)); lvl=4; h,r-ind=1,1
      [3,3]((18,20,25),(11,12,15),(21,23,29)); lvl=4; h,r-ind=1,1
    [3,3]((12,13,16),(21,23,28),(20,22,27)); lvl=3; h,r-ind=1,1
    [3,3]((8,9,11),(21,23,28),(20,22,27)); lvl=3; h,r-ind=1,1
    [4,3]((7,8,10),(18,20,25),(8,9,11),(20,22,27)); lvl=3; h,r-ind=1,1
      [4,3]((7,8,10),(34,38,47),(18,20,25),(19,21,26)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((19,21,26),(26,29,36),(34,38,47)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,10),(26,29,36),(34,38,47)); lvl=5; h,r-ind=1,1
        [3,3]((18,20,25),(7,8,10),(26,29,36)); lvl=5; h,r-ind=1,1
        [3,3]((18,20,25),(19,21,26),(26,29,36)); lvl=5; h,r-ind=1,1
      [4,3]((8,9,11),(34,38,47),(20,22,27),(19,21,26)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((34,38,47),(27,30,37),(19,21,26)); lvl=5; h,r-ind=1,1
        [3,3]((20,22,27),(27,30,37),(19,21,26)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,11),(20,22,27),(27,30,37)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,11),(34,38,47),(27,30,37)); lvl=5; h,r-ind=1,1
      [3,3]((8,9,11),(7,8,10),(34,38,47)); lvl=4; h,r-ind=1,1
  [3,3]((4,5,6),(6,7,9),(8,9,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((14,16,21),(6,7,9),(9,10,13)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(4,4,5),(1,1,1)); lvl=1; h,r-ind=1,1
```

```
  [4,3]((14,15,21),(5,5,7),(14,16,21),(4,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((9,10,13),(4,4,5),(3,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((8,9,12),(9,10,13),(3,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((8,9,12),(10,11,15),(3,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((14,15,21),(10,11,15),(5,5,7),(3,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((5,5,7),(3,3,4),(20,21,29)); lvl=3; h,r-ind=1,1
      [4,3]((12,13,18),(10,11,15),(3,3,4),(20,21,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((15,16,22),(10,11,15),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((20,21,29),(15,16,22),(3,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,18),(20,21,29),(15,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,18),(15,16,22),(10,11,15)); lvl=4; h,r-ind=1,1
      [4,3]((14,15,21),(12,13,18),(5,5,7),(20,21,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((12,13,18),(20,21,29),(17,18,25)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,7),(20,21,29),(17,18,25)); lvl=4; h,r-ind=1,1
        [3,3]((14,15,21),(5,5,7),(17,18,25)); lvl=4; h,r-ind=1,1
        [3,3]((14,15,21),(12,13,18),(17,18,25)); lvl=4; h,r-ind=1,1
    [3,3]((14,16,21),(8,9,12),(9,10,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(5,5,7),(4,4,5)); lvl=1; h,r-ind=3,3; optimized-h
```

21.103 Resolved

```
[3,3]((1,0,0),(0,1,0),(14,18,21)); lvl=0; h,r-ind=21,21
  [3,3]((1,1,1),(2,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(2,3,3),(6,8,9)); lvl=1; h,r-ind=1,1
  [4,3]((5,6,7),(14,18,21),(1,1,1),(6,8,9)); lvl=1; h,r-ind=1,1
    [4,3]((5,6,7),(16,20,23),(14,18,21),(10,13,15)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((15,19,22),(16,20,23),(10,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((14,18,21),(15,19,22),(10,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,7),(14,18,21),(15,19,22)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,7),(15,19,22),(16,20,23)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(16,20,23),(6,8,9),(10,13,15)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((10,13,15),(11,14,16),(16,20,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(11,14,16),(16,20,23)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,9),(1,1,1),(11,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,9),(10,13,15),(11,14,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(5,6,7),(16,20,23)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(5,6,7),(1,1,1)); lvl=1; h,r-ind=1,1
```

21.104 Resolved

```
[3,3]((1,0,0),(0,1,0),(14,20,21)); lvl=0; h,r-ind=21,63
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((14,20,21),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(2,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((14,20,21),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
```

21.105 Resolved

```
[3,3]((1,0,0),(0,1,0),(15,20,21)); lvl=0; h,r-ind=21,147
  [3,3]((0,1,0),(1,1,1),(4,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((15,20,21),(1,1,1),(4,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(15,20,21),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,7,7),(4,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((15,20,21),(5,7,7),(4,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

21.106 Resolved

```
[3,3]((1,0,0),(0,1,0),(18,20,21)); lvl=0; h,r-ind=21,147
  [3,3]((6,7,7),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((18,20,21),(6,7,7),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(18,20,21),(1,1,1)); lvl=1; h,r-ind=1,1
```

21.107 Resolved

```
[3,3]((1,0,0),(0,1,0),(20,20,21)); lvl=0; h,r-ind=21,441
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((20,20,21),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((20,20,21),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

22 H-index = 22

22.0 Classification

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```

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```

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  [3,3]((1,0,0),(0,1,0),(11,20,22))
  [3,3]((1,0,0),(0,1,0),(20,11,22))
  [3,3]((1,0,0),(1,2,0),(5,0,11))
  [3,3]((1,0,0),(1,2,0),(5,10,11))
  [3,3]((1,0,0),(5,11,0),(1,0,2))
  [3,3]((1,0,0),(9,11,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(11,21,22))
  [3,3]((1,0,0),(0,1,0),(11,21,22))
  [3,3]((1,0,0),(0,1,0),(21,11,22))
  [3,3]((1,0,0),(10,11,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(12,13,22))
  [3,3]((1,0,0),(0,1,0),(12,13,22))
  [3,3]((1,0,0),(0,1,0),(13,12,22))
  [3,3]((1,0,0),(0,1,0),(16,17,22))
  [3,3]((1,0,0),(0,1,0),(17,16,22))
  [3,3]((1,0,0),(1,2,0),(10,2,11))
  [3,3]((1,0,0),(1,2,0),(10,7,11))
[3,3]((1,0,0),(0,1,0),(12,17,22))
  [3,3]((1,0,0),(0,1,0),(12,17,22))
  [3,3]((1,0,0),(0,1,0),(13,20,22))
  [3,3]((1,0,0),(0,1,0),(17,12,22))
  [3,3]((1,0,0),(0,1,0),(20,13,22))
  [3,3]((1,0,0),(1,2,0),(6,2,11))
  [3,3]((1,0,0),(1,2,0),(6,10,11))
[3,3]((1,0,0),(0,1,0),(12,21,22))
  [3,3]((1,0,0),(0,1,0),(12,21,22))
  [3,3]((1,0,0),(0,1,0),(21,12,22))
  [3,3]((1,0,0),(1,2,0),(2,2,11))
[3,3]((1,0,0),(0,1,0),(13,13,22))
  [3,3]((1,0,0),(0,1,0),(13,13,22))
  [3,3]((1,0,0),(0,1,0),(17,21,22))
  [3,3]((1,0,0),(0,1,0),(21,17,22))
[3,3]((1,0,0),(0,1,0),(13,16,22))
  [3,3]((1,0,0),(0,1,0),(13,16,22))
  [3,3]((1,0,0),(0,1,0),(14,17,22))
  [3,3]((1,0,0),(0,1,0),(16,13,22))
  [3,3]((1,0,0),(0,1,0),(17,14,22))
  [3,3]((1,0,0),(1,2,0),(2,7,11))
  [3,3]((1,0,0),(1,2,0),(2,8,11))
[3,3]((1,0,0),(0,1,0),(13,21,22))
  [3,3]((1,0,0),(0,1,0),(13,21,22))
  [3,3]((1,0,0),(0,1,0),(17,17,22))
  [3,3]((1,0,0),(0,1,0),(21,13,22))
[3,3]((1,0,0),(0,1,0),(14,21,22))
  [3,3]((1,0,0),(0,1,0),(14,21,22))
  [3,3]((1,0,0),(0,1,0),(21,14,22))
  [3,3]((1,0,0),(1,2,0),(8,8,11))
[3,3]((1,0,0),(0,1,0),(16,21,22))
  [3,3]((1,0,0),(0,1,0),(16,21,22))
  [3,3]((1,0,0),(0,1,0),(21,16,22))
  [3,3]((1,0,0),(1,2,0),(7,7,11))
[3,3]((1,0,0),(0,1,0),(18,21,22))
  [3,3]((1,0,0),(0,1,0),(18,21,22))
  [3,3]((1,0,0),(0,1,0),(21,18,22))
  [3,3]((1,0,0),(1,2,0),(5,5,11))
[3,3]((1,0,0),(0,1,0),(20,21,22))
  [3,3]((1,0,0),(0,1,0),(20,21,22))
  [3,3]((1,0,0),(0,1,0),(21,20,22))
  [3,3]((1,0,0),(1,2,0),(10,10,11))
[3,3]((1,0,0),(0,1,0),(21,21,22))
  [3,3]((1,0,0),(0,1,0),(21,21,22))
```

22.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,22)); lvl=0; h,r-ind=22,22
  [3,3]((1,0,0),(0,1,11),(0,1,0)); lvl=1; h,r-ind=11,11; optimized-h
  [3,3]((1,0,0),(0,1,22),(0,1,11)); lvl=1; h,r-ind=11,11; optimized-h
```

22.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,3,22)); lvl=0; h,r-ind=22,22
  [3,3]((1,0,0),(0,1,0),(0,1,4)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,0,0),(0,1,7),(0,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,3,22),(0,1,7)); lvl=1; h,r-ind=1,1
```

22.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,5,22)); lvl=0; h,r-ind=22,22
  [3,3]((1,0,0),(0,1,0),(0,2,5)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,1,4),(0,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,4,17),(0,1,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,5,22),(0,4,17)); lvl=1; h,r-ind=3,3; optimized-h
```

22.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,7,22)); lvl=0; h,r-ind=22,22
  [3,3]((1,0,0),(0,1,0),(0,1,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,1,3),(0,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,3),(0,7,22)); lvl=1; h,r-ind=1,1
```

22.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,13,22)); lvl=0; h,r-ind=22,22
  [3,3]((1,0,0),(0,3,5),(0,13,22)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,2,3),(0,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,1),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
```

22.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,21,22)); lvl=0; h,r-ind=22,22
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,21,22),(0,1,1)); lvl=1; h,r-ind=1,1
```

22.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,22)); lvl=0; h,r-ind=22,484
  [3,3]((1,1,11),(1,1,21),(1,0,0)); lvl=1; h,r-ind=10,10; optimized-h
  [3,3]((1,1,22),(1,1,21),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,11),(1,0,0)); lvl=1; h,r-ind=11,121; optimized-h
  [3,3]((0,1,0),(1,1,11),(1,1,21)); lvl=1; h,r-ind=10,10; optimized-h
  [3,3]((1,1,22),(0,1,0),(1,1,21)); lvl=1; h,r-ind=1,1
```

22.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,22)); lvl=0; h,r-ind=22,242
  [4,3]((1,0,0),(1,1,11),(1,2,11),(1,2,20)); lvl=1; h,r-ind=1,2
    [4,3]((1,1,8),(1,2,11),(2,4,31),(1,1,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,8),(1,1,7),(1,2,15),(2,4,27)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,7),(1,2,14),(2,4,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,7),(3,4,29),(1,2,14)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,8),(3,4,29),(1,2,15),(1,2,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,2,15),(2,3,22),(1,2,14)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,29),(2,3,22),(1,2,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,8),(1,2,15),(2,3,22)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,29),(1,1,8),(2,3,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,8),(1,1,7),(3,4,29)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,6),(1,1,7),(1,2,11),(2,4,27)); lvl=3; h,r-ind=1,1
        [4,3]((1,1,7),(4,5,32),(2,4,25),(1,2,13)); lvl=4; h,r-ind=1,1
          [3,3]((1,1,7),(2,3,19),(4,5,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,7),(4,6,39),(2,3,19)); lvl=5; h,r-ind=1,1
          [4,3]((1,2,13),(4,6,39),(2,4,25),(2,3,19)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((4,6,39),(3,5,32),(2,3,19)); lvl=6; h,r-ind=1,1
            [3,3]((2,4,25),(3,5,32),(2,3,19)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,13),(2,4,25),(3,5,32)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,13),(4,6,39),(3,5,32)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,13),(1,1,7),(4,6,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,7),(2,4,27),(1,2,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,6),(1,2,11),(4,5,32),(2,4,25)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [3,3]((2,3,19),(1,2,12),(2,4,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,19),(1,2,12),(5,7,43)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,1,6),(1,2,12),(1,2,11),(5,7,43)); lvl=5; h,r-ind=1,3
            [3,3]((2,3,18),(1,2,11),(1,2,12)); lvl=6; h,r-ind=1,1
            [3,3]((5,7,43),(2,3,18),(1,2,12)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,6),(5,7,43),(2,3,18)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,6),(2,3,18),(1,2,11)); lvl=6; h,r-ind=1,1
          [4,3]((1,1,6),(4,5,32),(2,3,19),(5,7,43)); lvl=5; h,r-ind=1,3
            [3,3]((3,4,25),(4,5,32),(2,3,19)); lvl=6; h,r-ind=1,1
            [3,3]((5,7,43),(3,4,25),(2,3,19)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,6),(5,7,43),(3,4,25)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,6),(3,4,25),(4,5,32)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,7),(1,1,6),(4,5,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,8),(2,4,31),(1,2,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,8),(1,1,6)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((1,0,0),(1,2,11),(1,1,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,8),(1,2,20),(2,4,31),(1,1,10)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,10),(1,1,9),(1,2,20),(2,4,35)); lvl=3; h,r-ind=1,1
        [4,3]((1,1,9),(4,5,47),(1,2,18),(2,4,37)); lvl=4; h,r-ind=1,1
          [4,3]((2,3,28),(4,6,55),(1,2,18),(2,4,37)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,5,46),(4,6,55),(1,2,18)); lvl=6; h,r-ind=1,1
            [3,3]((2,4,37),(3,5,46),(1,2,18)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,28),(2,4,37),(3,5,46)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,28),(3,5,46),(4,6,55)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,9),(2,3,28),(4,6,55)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,9),(2,3,28),(4,5,47)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,9),(4,6,55),(1,2,18)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,10),(4,5,47),(1,2,20),(2,4,37)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [3,3]((1,2,19),(2,3,28),(2,4,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,19),(5,7,67),(2,3,28)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,1,10),(4,5,47),(5,7,67),(2,3,28)); lvl=5; h,r-ind=1,3
            [3,3]((3,4,38),(2,3,28),(4,5,47)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,10),(3,4,38),(4,5,47)); lvl=6; h,r-ind=1,1
            [3,3]((5,7,67),(3,4,38),(2,3,28)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,10),(5,7,67),(3,4,38)); lvl=6; h,r-ind=1,1
          [4,3]((1,1,10),(1,2,20),(1,2,19),(5,7,67)); lvl=5; h,r-ind=1,3
            [3,3]((1,2,19),(2,3,29),(1,2,20)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,10),(2,3,29),(1,2,20)); lvl=6; h,r-ind=1,1
            [3,3]((5,7,67),(1,2,19),(2,3,29)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,10),(5,7,67),(2,3,29)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,9),(2,4,35),(1,2,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,10),(1,1,9),(4,5,47)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,8),(1,1,9),(1,2,16),(2,4,35)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,9),(2,4,35),(1,2,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,9),(3,4,34),(1,2,17)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,8),(1,2,16),(3,4,34),(1,2,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,2,16),(2,3,25),(1,2,17)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,34),(2,3,25),(1,2,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,8),(1,2,16),(2,3,25)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,34),(1,1,8),(2,3,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,9),(1,1,8),(3,4,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,8),(2,4,31),(1,2,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,8),(1,1,10)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((1,1,11),(1,2,20),(1,1,10)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,0,0),(1,1,11),(1,1,10)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,11),(1,2,20)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((1,2,22),(0,1,0),(1,2,20)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,22),(1,1,11),(1,2,20)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,11)); lvl=1; h,r-ind=11,121; optimized-h
```

22.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,22)); lvl=0; h,r-ind=22,484
  [3,3]((1,1,7),(1,1,4),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,3,22),(1,1,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,3,11),(1,1,4),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,7),(1,1,4),(1,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,17),(1,2,7),(1,3,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,8),(2,5,15),(2,5,17),(1,3,11)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,11),(2,6,19),(2,5,17),(2,5,16)); lvl=3; h,r-ind=1,1
        [3,3]((5,13,43),(2,5,16),(2,5,17)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,11),(1,3,10),(5,13,43),(2,5,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,8,27),(5,13,43),(1,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,11),(3,8,27),(1,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,17),(3,8,27),(5,13,43)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,11),(2,5,17),(3,8,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(5,13,43),(2,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,10),(2,6,19),(2,5,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,8),(2,6,19),(2,5,15),(2,5,16)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,15),(2,5,16),(5,13,40)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(2,5,16),(5,13,40)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,19),(1,3,9),(2,5,16)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,8),(1,3,9),(2,5,15),(5,13,40)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,3,9),(5,13,40),(3,8,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(5,13,40),(3,8,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(1,3,9),(3,8,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(1,3,8),(3,8,24)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,8),(1,3,11)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,3,10),(1,2,7),(2,2,7),(1,1,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,14),(1,1,4),(2,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(3,4,14),(2,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(2,3,10),(3,4,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(3,4,14),(1,1,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,7),(1,1,4)); lvl=2; h,r-ind=1,1
    [5,3]((1,2,4),(1,2,6),(2,3,10),(1,0,0),(2,2,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,10),(2,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,3),(2,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,0,0),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(1,1,3),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(1,2,5),(1,1,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,2),(1,2,4),(1,2,5),(1,1,3)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,4),(1,2,5),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(1,2,5),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(1,2,4),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(1,1,2),(2,3,7)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,4),(2,6,11),(1,0,0)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(2,6,11),(1,2,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,5),(1,1,2),(1,2,3),(1,2,4)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,3),(1,1,2),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(1,1,2),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(1,2,3),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(1,3,5),(2,4,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,3),(1,0,0),(1,1,2),(1,2,3)); lvl=3; h,r-ind=1,1
        [4,3]((1,0,0),(2,3,3),(1,1,2),(4,6,9)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((1,1,2),(5,6,9),(2,3,4),(4,6,9)); lvl=5; h,r-ind=1,3
            [3,3]((2,3,4),(3,4,6),(5,6,9)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,2),(3,4,6),(5,6,9)); lvl=6; h,r-ind=1,1
            [3,3]((4,6,9),(1,1,2),(3,4,6)); lvl=6; h,r-ind=1,1
            [3,3]((4,6,9),(2,3,4),(3,4,6)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(5,6,9),(2,3,4)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [3,3]((1,1,1),(2,3,3),(2,3,4)); lvl=5; h,r-ind=1,1
          [4,3]((1,0,0),(1,1,2),(1,1,1),(5,6,9)); lvl=5; h,r-ind=1,3
            [3,3]((1,1,2),(2,2,3),(5,6,9)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,1),(2,2,3),(5,6,9)); lvl=6; h,r-ind=1,1
            [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=6; h,r-ind=1,1
            [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,3),(1,1,2),(4,6,9)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,3),(1,2,3),(2,3,3),(4,6,9)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((1,2,3),(5,9,12),(2,3,4),(4,6,9)); lvl=5; h,r-ind=1,3
            [3,3]((5,9,12),(3,5,7),(2,3,4)); lvl=6; h,r-ind=1,1
            [3,3]((4,6,9),(3,5,7),(2,3,4)); lvl=6; h,r-ind=1,1
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          [3,3]((1,2,3),(5,9,12),(3,5,7)); lvl=6; h,r-ind=1,1
          [3,3]((4,6,9),(1,2,3),(3,5,7)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,2),(5,9,12),(2,3,4)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,2,2),(2,3,3),(2,3,4)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,3),(1,3,3),(1,2,2),(5,9,12)); lvl=5; h,r-ind=1,3
          [3,3]((2,4,5),(1,3,3),(1,2,2)); lvl=6; h,r-ind=1,1
          [3,3]((5,9,12),(2,4,5),(1,2,2)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(5,9,12),(2,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(2,4,5),(1,3,3)); lvl=6; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,0,0)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,5),(1,3,3),(1,2,3)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,3,5),(1,3,3)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,3,5),(2,6,11)); lvl=3; h,r-ind=1,1
  [5,3]((1,2,6),(2,5,15),(2,5,17),(2,3,10),(1,2,7)); lvl=2; h,r-ind=1,1
    [4,3]((5,11,36),(3,7,23),(2,5,17),(1,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,23),(2,5,17),(4,9,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(2,5,17),(4,9,30)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,36),(3,7,23),(4,9,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(5,11,36),(4,9,30)); lvl=4; h,r-ind=1,1
    [4,3]((5,11,36),(6,13,42),(2,4,13),(1,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,13),(6,13,42),(7,15,49)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,36),(6,13,42),(7,15,49)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(5,11,36),(7,15,49)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(2,4,13),(7,15,49)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,10),(2,4,13),(1,2,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(2,3,10),(2,4,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,6),(6,13,42),(5,11,35),(2,4,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,35),(6,13,42),(7,15,48)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,13),(6,13,42),(7,15,48)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,4,13),(7,15,48)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(5,11,35),(7,15,48)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,23),(2,5,16),(2,5,17)); lvl=3; h,r-ind=1,1
    [6,3]((5,11,36),(3,7,23),(6,13,42),(5,11,35),(2,5,16),(3,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,16),(4,9,29),(3,7,23)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,36),(4,9,29),(3,7,23)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,36),(6,13,42),(4,9,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,16),(3,7,22),(4,9,29)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,35),(3,7,22),(4,9,29)); lvl=4; h,r-ind=1,1
      [3,3]((6,13,42),(5,11,35),(4,9,29)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,15),(2,5,16),(3,7,22)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,6),(5,11,35),(2,5,15),(3,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,28),(3,7,22),(5,11,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(4,9,28),(5,11,35)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,28),(2,5,15),(3,7,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(4,9,28),(2,5,15)); lvl=4; h,r-ind=1,1
  [5,3]((1,2,4),(2,6,11),(1,3,8),(1,2,6),(2,5,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,14),(1,3,8),(2,5,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,14),(1,2,6),(2,5,15)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,14),(1,2,5),(2,5,12),(1,2,6)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,13),(4,9,24),(1,2,5),(2,5,12)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,5),(4,9,24),(3,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,13),(4,9,24),(3,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,12),(1,2,5),(3,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,13),(2,5,12),(3,7,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,6),(4,9,24),(1,2,5)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,13),(2,5,14),(1,2,6),(4,9,24)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,14),(3,7,19),(1,2,6)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,24),(3,7,19),(1,2,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,13),(4,9,24),(3,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,13),(2,5,14),(3,7,19)); lvl=5; h,r-ind=1,1
    [4,3]((2,5,14),(2,5,12),(2,6,13),(1,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,12),(2,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(1,3,7),(2,5,12)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,14),(2,5,13),(1,3,8),(1,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(1,3,8),(3,8,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,14),(1,3,8),(3,8,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,13),(2,5,14),(3,8,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,13),(1,3,7),(3,8,21)); lvl=5; h,r-ind=1,1
    [5,3]((1,2,4),(1,2,5),(2,5,12),(1,3,6),(2,6,13)); lvl=3; h,r-ind=1,1
      [5,3]((4,10,23),(5,13,29),(4,11,24),(2,6,13),(2,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,18),(4,11,24),(5,13,29)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,23),(3,8,18),(5,13,29)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,23),(2,5,12),(3,8,18)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,18),(2,6,13),(4,11,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,12),(3,8,18),(2,6,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,5),(4,10,23),(2,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,24),(1,3,6),(2,6,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,5),(4,10,23),(2,5,11),(5,13,29)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,23),(5,13,29),(6,15,34)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,11),(5,13,29),(6,15,34)); lvl=5; h,r-ind=1,1
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          [3,3]((1,2,5),(2,5,11),(6,15,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(4,10,23),(6,15,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(1,2,5),(2,5,11)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,11),(5,13,29),(4,11,24),(1,3,6)); lvl=4; h,r-ind=1,1
          [3,3]((4,11,24),(5,13,29),(6,16,35)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,11),(5,13,29),(6,16,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,6),(2,5,11),(6,16,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,6),(4,11,24),(6,16,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(2,5,11),(1,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,6,11),(1,3,6)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,6,11),(1,3,8)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
[5,3]((1,2,14),(1,1,7),(1,3,11),(1,1,4),(1,3,19)); lvl=1; h,r-ind=1,2
  [4,3]((2,2,11),(1,2,13),(2,4,21),(1,1,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,6),(1,1,7),(1,2,13),(2,4,23)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,7),(3,4,25),(1,2,12),(1,2,13)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,19),(3,4,25),(1,2,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,13),(2,3,19),(1,2,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,7),(1,2,13),(2,3,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,7),(2,3,19),(3,4,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,6),(1,1,7),(3,4,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,6),(3,4,25),(1,2,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,23),(1,1,6),(1,2,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,6),(1,2,11),(2,4,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,6),(2,3,16),(1,2,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,16),(2,4,21),(1,2,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,11),(1,1,6),(2,3,16)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,14),(1,2,13),(1,1,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,19),(1,2,13),(1,3,15),(2,4,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,15),(2,4,21),(1,2,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,15),(1,3,17),(2,4,23),(1,2,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,17),(3,7,39),(2,4,23)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,11),(3,7,39),(2,4,23)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,15),(1,3,16),(1,2,11),(3,7,39)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,27),(1,3,16),(3,7,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,11),(2,5,27),(3,7,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,15),(2,5,27),(1,3,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,11),(1,3,15),(2,5,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,16),(1,3,17),(3,7,39)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,3,19),(1,3,17),(1,2,13),(2,4,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,17),(2,4,23),(1,2,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,17),(1,3,18),(1,2,12)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,19),(1,3,18),(1,2,13),(1,2,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,13),(1,2,12),(2,5,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,18),(1,2,12),(2,5,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,19),(1,3,18),(2,5,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,19),(1,2,13),(2,5,31)); lvl=5; h,r-ind=1,1
  [3,3]((1,2,14),(1,3,19),(1,2,13)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,4),(2,2,11),(2,4,21),(1,2,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,5),(2,3,16),(2,2,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,5),(1,2,10),(2,3,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,10),(2,4,21),(2,3,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,5),(1,2,10),(2,4,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,4),(1,1,5),(1,2,8),(2,4,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,5),(2,4,19),(1,2,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,5),(3,4,18),(1,2,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,4),(1,2,8),(3,4,18),(1,2,9)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,8),(2,3,13),(1,2,9)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,18),(2,3,13),(1,2,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(1,2,8),(2,3,13)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,18),(1,1,4),(2,3,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,5),(1,1,4),(3,4,18)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,11),(1,3,15),(2,4,21),(1,2,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,15),(1,2,10),(2,4,21)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,13),(2,4,19),(1,3,15),(1,2,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,19),(3,7,33),(1,2,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,15),(1,3,14),(3,7,33),(1,2,10)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,24),(3,7,33),(1,3,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,15),(2,5,24),(1,3,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,10),(2,5,24),(3,7,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,15),(1,2,10),(2,5,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,13),(1,3,14),(3,7,33)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,3,13),(2,4,19),(3,7,33)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,3,11),(1,3,13),(1,2,8),(2,4,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,13),(2,4,19),(1,2,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,13),(1,3,12),(1,2,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,11),(1,3,12),(1,2,8),(1,2,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,8),(1,2,9),(2,5,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,12),(1,2,9),(2,5,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,11),(1,2,8),(2,5,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,12),(1,3,11),(2,5,20)); lvl=5; h,r-ind=1,1
```

```
    [3,3]((1,1,4),(1,3,11),(1,2,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,22),(1,2,14),(1,1,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,22),(1,2,14),(1,3,19)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,3,11),(1,3,19)); lvl=1; h,r-ind=8,8; optimized-h
  [3,3]((1,3,22),(0,1,0),(1,3,19)); lvl=1; h,r-ind=3,3; optimized-h
```

22.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,4,22)); lvl=0; h,r-ind=22,242
  [3,3]((1,2,6),(1,2,10),(1,0,0)); lvl=1; h,r-ind=8,4; optimized-h
  [3,3]((1,2,11),(1,2,10),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(1,4,11),(1,2,6),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,8),(1,2,5),(1,2,6),(1,1,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,5),(1,1,3),(2,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(1,1,3),(2,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(1,2,5),(2,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(1,3,8),(2,4,11)); lvl=3; h,r-ind=1,1
    [5,3]((1,2,5),(1,3,6),(1,0,0),(2,6,9),(1,1,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,5),(3,6,11),(1,3,6),(1,2,4)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,9),(3,6,11),(1,2,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(2,5,9),(1,2,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(1,3,6),(2,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,5,9),(3,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(1,3,6),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,7),(1,1,3)); lvl=3; h,r-ind=1,1
      [4,3]((3,6,11),(2,3,6),(4,7,13),(1,2,4)); lvl=3; h,r-ind=1,1
        [3,3]((4,7,13),(2,3,6),(5,9,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(2,3,6),(5,9,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,11),(1,2,4),(5,9,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,11),(4,7,13),(5,9,17)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,5),(2,3,7),(2,3,6),(1,2,4)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,7),(2,3,6),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(2,3,6),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(1,2,4),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(2,3,7),(3,5,11)); lvl=4; h,r-ind=1,1
      [5,3]((1,3,5),(3,6,11),(3,5,9),(4,7,13),(1,2,3)); lvl=3; h,r-ind=1,1
        [3,3]((2,4,7),(4,7,13),(3,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,4,7),(3,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,7),(4,7,13),(3,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,7),(1,2,3),(3,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,4,7),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,6,9),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,2),(3,5,9),(1,2,3)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,2),(3,5,9),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(3,5,9),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(1,1,2),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,0,0),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(1,0,0),(1,1,2)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,2),(2,3,6),(3,5,9),(4,7,13)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,6),(4,7,13),(5,8,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,9),(4,7,13),(5,8,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(2,3,6),(5,8,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,9),(1,1,2),(5,8,15)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,7),(1,1,3),(1,1,2),(2,3,6)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,9),(1,1,2),(1,1,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(3,4,9),(1,1,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,6),(3,4,9),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(2,3,6),(3,4,9)); lvl=4; h,r-ind=1,1
    [5,3]((1,3,8),(2,7,18),(1,2,5),(2,7,14),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,6),(2,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,16),(1,3,7),(2,7,14)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,7,18),(2,7,16),(1,3,7)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,3,8),(2,7,18),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,3,7),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(1,2,5),(1,3,7)); lvl=3; h,r-ind=1,1
    [5,3]((2,7,14),(1,3,6),(2,8,11),(2,6,9),(1,4,7)); lvl=2; h,r-ind=1,1
      [4,3]((4,14,23),(2,7,13),(1,3,5),(1,3,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,5),(4,13,23),(1,3,6)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,12),(2,7,13),(4,13,23),(1,3,6)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,10,18),(1,3,6),(2,7,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,12),(3,10,18),(2,7,13)); lvl=5; h,r-ind=1,1
          [3,3]((4,13,23),(3,10,18),(1,3,6)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,12),(4,13,23),(3,10,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,12),(1,3,5),(4,13,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,12),(4,14,23),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,14),(2,7,13),(1,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,7),(1,4,6),(4,14,23),(2,7,13)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,4,6),(4,14,23),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(4,15,25),(2,7,12)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,13),(1,4,7),(4,15,25),(2,7,12)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,19),(1,4,7),(4,15,25)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,19),(2,7,12),(4,15,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,13),(3,11,19),(2,7,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,13),(3,11,19),(1,4,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,7),(1,4,6),(4,15,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,14),(1,4,7),(2,7,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(4,14,23),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,3,5),(2,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(1,3,5),(2,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,10),(2,8,11)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,8,11),(1,4,7)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((0,1,0),(1,0,0),(2,8,11),(2,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,9),(2,7,10),(1,2,3),(2,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(2,6,9),(5,16,23)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(1,2,3),(2,6,9),(5,16,23)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,9),(3,9,13),(1,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(3,9,13),(1,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,23),(1,3,4),(3,9,13)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,23),(2,6,9),(3,9,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,10),(5,16,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,9),(1,3,4),(2,7,10)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,3),(1,2,2),(2,7,9),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((3,8,9),(1,3,4),(1,2,2),(1,2,3)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,2),(1,2,3),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(1,2,3),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,9),(1,2,2),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,3),(3,8,9),(1,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,3,4),(2,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(3,8,9),(1,2,2)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(1,0,0),(1,2,3)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((0,1,0),(1,4,5),(1,3,3),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,9),(3,11,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,3),(3,11,12),(2,7,9),(3,11,13)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,8),(3,11,13),(3,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(3,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,9),(1,3,3),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,9),(2,7,8),(3,11,13)); lvl=5; h,r-ind=1,1
      [4,3]((3,11,12),(1,4,5),(1,4,4),(3,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(1,4,5),(4,15,17)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,13),(1,4,5),(4,15,17)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,12),(1,4,4),(4,15,17)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,13),(3,11,12),(4,15,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,3),(3,11,12),(1,4,4)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,5),(1,4,4)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(2,7,9),(2,8,11),(2,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,15),(2,7,10),(2,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(3,11,15),(2,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,8,11),(3,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,11),(3,11,15),(2,7,10)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(2,8,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,8),(1,4,11),(1,2,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,8),(2,7,18),(1,4,11)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,18),(2,7,14),(1,4,7),(1,4,11)); lvl=2; h,r-ind=4,1; alert-h-inc
    [4,3]((2,7,16),(1,4,9),(2,7,14),(1,4,7)); lvl=3; h,r-ind=2,1
      [4,3]((2,7,15),(2,7,14),(1,4,8),(1,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(1,4,8),(3,11,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,15),(1,4,8),(3,11,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,14),(2,7,15),(3,11,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,14),(1,4,7),(3,11,22)); lvl=5; h,r-ind=1,1
      [4,3]((2,7,15),(2,7,16),(1,4,9),(1,4,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,24),(1,4,9),(2,7,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,15),(3,11,24),(2,7,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(2,7,15),(3,11,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(3,11,24),(1,4,9)); lvl=5; h,r-ind=1,1
    [4,3]((2,7,18),(2,7,16),(1,4,11),(1,4,9)); lvl=3; h,r-ind=2,1
      [4,3]((2,7,17),(2,7,16),(1,4,10),(1,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(1,4,10),(3,11,26)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,17),(1,4,10),(3,11,26)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,16),(2,7,17),(3,11,26)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,16),(1,4,9),(3,11,26)); lvl=5; h,r-ind=1,1
      [4,3]((2,7,17),(2,7,18),(1,4,11),(1,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,11),(2,7,18),(3,11,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,17),(2,7,18),(3,11,28)); lvl=5; h,r-ind=1,1
```

```
        [3,3]((1,4,10),(2,7,17),(3,11,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,10),(1,4,11),(3,11,28)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,7),(1,4,11)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
[5,3]((1,4,11),(1,4,18),(1,3,15),(1,2,6),(1,2,10)); lvl=1; h,r-ind=1,2
  [4,3]((2,6,23),(1,2,6),(1,3,9),(1,2,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,21),(1,3,9),(1,2,6),(1,2,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,10),(3,7,23),(1,2,6),(1,3,9)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,23),(2,5,16),(1,2,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,9),(2,5,16),(1,2,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(1,3,9),(2,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(3,7,23),(2,5,16)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,23),(1,2,7),(1,2,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,10),(3,7,23),(1,2,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,10),(2,6,21),(1,2,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,11),(2,6,21),(1,2,8),(1,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(1,2,8),(2,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,11),(1,2,8),(2,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,11),(2,6,21),(2,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,21),(1,2,7),(2,5,18)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,23),(1,3,11),(1,2,8)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,14),(2,6,23),(1,2,10),(1,2,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,12),(2,6,25),(1,2,8),(1,2,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,21),(1,2,9),(1,2,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,12),(2,5,21),(1,2,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,12),(2,5,21),(2,6,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,21),(2,6,25),(1,2,9)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,14),(2,6,25),(1,2,10),(1,2,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,9),(1,2,10),(3,7,32)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,14),(1,3,13),(1,2,10),(3,7,32)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,23),(3,7,32),(1,3,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,14),(2,5,23),(1,3,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,10),(1,3,14),(2,5,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,10),(2,5,23),(3,7,32)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,13),(1,2,9),(3,7,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,13),(2,6,25),(1,2,9)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,23),(1,3,12),(1,2,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,14),(1,3,15),(1,2,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,14),(1,4,18),(1,3,15)); lvl=2; h,r-ind=1,1
  [4,3]((2,8,29),(1,3,14),(2,6,23),(1,4,18)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,18),(1,4,16),(1,3,14),(2,6,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,16),(2,6,25),(1,3,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,16),(1,4,17),(1,3,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,18),(1,4,17),(1,3,14),(1,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,14),(1,3,13),(2,7,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,17),(1,3,13),(2,7,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,18),(1,4,17),(2,7,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,18),(1,3,14),(2,7,31)); lvl=5; h,r-ind=1,1
    [4,3]((1,4,15),(1,4,16),(1,3,12),(2,6,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,28),(2,6,25),(1,3,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,15),(2,7,28),(1,3,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,28),(1,4,16),(2,6,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,15),(2,7,28),(1,4,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,15),(1,3,12),(2,7,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,23),(1,3,12),(2,7,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,29),(1,4,15),(2,7,26)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,11),(2,8,29),(2,6,23),(1,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,11),(2,6,23),(2,7,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,14),(1,3,11),(2,7,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,29),(1,4,14),(2,7,26)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,14),(1,4,13),(2,6,21),(1,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,24),(1,4,13),(2,6,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,24),(1,3,11),(2,6,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,14),(2,7,24),(1,3,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,14),(2,7,24),(1,4,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,11),(1,3,9),(1,4,13),(2,6,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,13),(2,6,21),(1,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,13),(1,4,12),(1,3,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,11),(1,4,12),(1,3,9),(1,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(1,3,10),(2,7,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,12),(1,3,10),(2,7,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,11),(1,3,9),(2,7,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,12),(1,4,11),(2,7,21)); lvl=5; h,r-ind=1,1
  [3,3]((1,4,11),(1,2,6),(1,3,9)); lvl=2; h,r-ind=1,1
[4,3]((1,4,22),(1,2,11),(1,3,15),(1,2,10)); lvl=1; h,r-ind=1,2
  [3,3]((1,3,16),(1,2,11),(1,2,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,15),(1,3,16),(1,2,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,22),(1,3,16),(1,2,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,15),(1,4,22),(1,3,16)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,4,11),(1,4,18)); lvl=1; h,r-ind=7,7; optimized-h
[3,3]((1,4,22),(0,1,0),(1,4,18)); lvl=1; h,r-ind=4,4; optimized-h
```

```
  [3,3]((1,4,22),(1,4,18),(1,3,15)); lvl=1; h,r-ind=4,4; optimized-h
```

22.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,5,22)); lvl=0; h,r-ind=22,484
  [5,3]((2,7,28),(1,2,8),(1,3,13),(2,4,17),(1,4,17)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,21),(2,4,17),(1,3,13)); lvl=2; h,r-ind=1,1
    [4,3]((4,13,55),(2,6,25),(2,5,21),(1,3,13)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,6,25),(2,5,21),(3,9,38)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,13),(2,5,21),(3,9,38)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,55),(2,6,25),(3,9,38)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,13),(4,13,55),(3,9,38)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,17),(4,13,55),(1,3,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,12),(1,4,17),(4,13,55),(2,6,25)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,42),(4,13,55),(1,4,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,12),(3,10,42),(1,4,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,42),(2,6,25),(4,13,55)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,12),(3,10,42),(2,6,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,12),(2,7,28),(1,4,17)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,8),(1,3,12),(2,6,25),(2,5,21)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,12),(2,6,25),(3,8,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,21),(2,6,25),(3,8,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(1,3,12),(3,8,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,21),(1,2,8),(3,8,33)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,8),(2,5,21),(2,4,17)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,22),(2,7,28),(1,5,17),(1,4,17)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,28),(1,4,15),(1,4,16)); lvl=2; h,r-ind=1,1
    [4,3]((2,10,39),(1,5,17),(1,4,15),(1,4,16)); lvl=2; h,r-ind=1,1
      [4,3]((2,10,37),(4,17,65),(1,5,17),(1,4,15)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,4,15),(4,17,65),(2,9,34),(5,22,82)); lvl=4; h,r-ind=1,3
          [3,3]((3,13,49),(2,9,34),(4,17,65)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,15),(3,13,49),(4,17,65)); lvl=5; h,r-ind=1,1
          [3,3]((5,22,82),(3,13,49),(2,9,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,15),(5,22,82),(3,13,49)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,18),(2,9,34),(5,22,82)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,5,18),(2,10,37),(2,9,34)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,17),(1,5,18),(1,4,15),(5,22,82)); lvl=4; h,r-ind=1,3
          [3,3]((2,9,33),(1,5,18),(5,22,82)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,15),(2,9,33),(5,22,82)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,17),(2,9,33),(1,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,15),(1,5,17),(2,9,33)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,16),(4,17,65),(1,4,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,16),(2,10,37),(1,5,19),(4,17,65)); lvl=3; h,r-ind=1,1
        [4,3]((4,18,69),(2,9,34),(1,5,19),(2,10,37)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,5,19),(3,14,53),(2,10,37)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,34),(3,14,53),(2,10,37)); lvl=5; h,r-ind=1,1
          [3,3]((4,18,69),(2,9,34),(3,14,53)); lvl=5; h,r-ind=1,1
          [3,3]((4,18,69),(1,5,19),(3,14,53)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,16),(4,18,69),(2,9,34)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,16),(2,9,34),(4,17,65)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,16),(4,18,69),(1,5,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,16),(2,10,39),(1,5,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,22),(2,10,39),(1,4,16)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,4,17),(2,7,28),(1,4,16)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,22),(1,4,17),(1,4,16)); lvl=2; h,r-ind=1,1
  [5,3]((1,5,11),(2,7,28),(1,5,17),(1,2,8),(1,2,5)); lvl=1; h,r-ind=9,3
    [4,3]((2,7,22),(2,7,16),(1,2,5),(2,4,13)); lvl=2; h,r-ind=9,3
      [4,3]((1,2,6),(2,6,17),(1,2,5),(1,3,7)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,5),(3,7,19),(1,3,8),(1,3,7)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,13),(3,7,19),(1,3,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(2,5,13),(1,3,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(1,3,7),(2,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(2,5,13),(3,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(1,2,5),(3,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(3,7,19),(1,3,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,6,17),(1,3,8)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,19),(2,6,17),(2,7,16),(1,3,7)); lvl=3; h,r-ind=3,1
        [4,3]((2,7,16),(4,14,35),(1,3,7),(1,3,8)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,8),(1,3,7),(4,13,32)); lvl=5; h,r-ind=1,1
          [4,3]((2,7,17),(2,7,16),(1,3,7),(4,13,32)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((1,3,7),(3,10,24),(2,7,16)); lvl=6; h,r-ind=1,1
            [3,3]((2,7,17),(3,10,24),(2,7,16)); lvl=6; h,r-ind=1,1
            [3,3]((4,13,32),(2,7,17),(3,10,24)); lvl=6; h,r-ind=1,1
            [3,3]((4,13,32),(1,3,7),(3,10,24)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,17),(1,3,8),(4,13,32)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,35),(2,7,17),(1,3,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,19),(4,14,35),(1,3,8)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
```

```
      [3,3]((2,7,19),(2,6,17),(1,3,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,6),(2,6,17),(1,3,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,13),(4,11,35),(1,2,6),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,16),(1,3,9),(4,11,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,16),(4,10,31),(1,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,31),(1,2,6),(1,3,9)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,16),(2,4,13),(4,10,31),(1,2,6)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,6),(2,4,13),(3,7,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,16),(2,4,13),(3,7,22)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,31),(1,2,6),(3,7,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,16),(4,10,31),(3,7,22)); lvl=5; h,r-ind=1,1
    [3,3]((2,7,22),(4,11,35),(1,3,9)); lvl=3; h,r-ind=3,3; optimized-h
    [4,3]((2,7,22),(2,7,19),(2,6,17),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,46),(2,7,19),(2,6,17)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((5,16,46),(1,3,9),(2,6,17)); lvl=4; h,r-ind=1,1
      [4,3]((4,14,41),(2,7,22),(5,16,46),(1,3,9)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,3,9),(2,7,21),(7,23,68),(2,7,22)); lvl=5; h,r-ind=1,3
          [3,3]((3,10,30),(2,7,21),(7,23,68)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,9),(3,10,30),(7,23,68)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,22),(3,10,30),(2,7,21)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,9),(2,7,22),(3,10,30)); lvl=6; h,r-ind=1,1
        [4,3]((3,10,29),(5,16,46),(1,3,9),(7,23,68)); lvl=5; h,r-ind=1,3
          [3,3]((4,13,38),(5,16,46),(1,3,9)); lvl=6; h,r-ind=1,1
          [3,3]((7,23,68),(4,13,38),(1,3,9)); lvl=6; h,r-ind=1,1
          [3,3]((3,10,29),(7,23,68),(4,13,38)); lvl=6; h,r-ind=1,1
          [3,3]((3,10,29),(4,13,38),(5,16,46)); lvl=6; h,r-ind=1,1
        [3,3]((3,10,29),(2,7,21),(7,23,68)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,10,29),(4,14,41),(2,7,21)); lvl=5; h,r-ind=1,1
      [3,3]((4,14,41),(5,16,46),(2,7,19)); lvl=4; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((2,7,22),(2,7,25),(1,3,12),(1,2,8),(2,4,13)); lvl=2; h,r-ind=3,3
    [4,3]((1,3,11),(2,6,21),(2,7,25),(4,14,47)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,24),(3,10,34),(4,14,47)); lvl=4; h,r-ind=1,1
      [4,3]((7,23,80),(2,7,24),(3,10,34),(4,13,45)); lvl=4; h,r-ind=1,1
        [3,3]((6,20,69),(2,7,24),(3,10,34)); lvl=5; h,r-ind=1,1
        [3,3]((6,20,69),(4,13,45),(3,10,34)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,80),(6,20,69),(4,13,45)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,80),(6,20,69),(2,7,24)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,11),(7,23,80),(2,7,24),(2,7,25)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,10,35),(7,23,80),(2,7,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,25),(3,10,35),(2,7,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,11),(2,7,25),(3,10,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,11),(3,10,35),(7,23,80)); lvl=5; h,r-ind=1,1
      [4,3]((2,6,21),(1,3,11),(7,23,80),(4,13,45)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,11),(7,23,80),(5,16,56)); lvl=5; h,r-ind=1,1
        [3,3]((4,13,45),(7,23,80),(5,16,56)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,21),(4,13,45),(5,16,56)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,21),(1,3,11),(5,16,56)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,21),(3,10,34),(4,13,45)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,22),(1,3,10),(2,6,21),(4,14,47)); lvl=3; h,r-ind=1,1
      [4,3]((7,23,77),(4,13,44),(2,6,21),(1,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,44),(2,6,21),(5,16,54)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(2,6,21),(5,16,54)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,77),(4,13,44),(5,16,54)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(7,23,77),(5,16,54)); lvl=5; h,r-ind=1,1
      [4,3]((2,7,22),(2,7,23),(7,23,77),(1,3,10)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,7,23),(3,10,33),(7,23,77)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(3,10,33),(7,23,77)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,22),(1,3,10),(3,10,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,22),(2,7,23),(3,10,33)); lvl=5; h,r-ind=1,1
      [3,3]((3,10,34),(4,13,44),(2,6,21)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,23),(7,23,77),(3,10,34),(4,13,44)); lvl=4; h,r-ind=1,1
        [3,3]((7,23,77),(6,20,67),(4,13,44)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,34),(6,20,67),(4,13,44)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,23),(3,10,34),(6,20,67)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,23),(7,23,77),(6,20,67)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,23),(4,14,47),(3,10,34)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,22),(1,3,10),(4,11,35)); lvl=3; h,r-ind=3,3; optimized-h
    [4,3]((1,3,10),(1,2,7),(2,4,13),(4,11,35)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,16),(1,2,7),(2,4,13),(4,10,33)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,23),(2,4,13),(1,2,7)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,33),(3,7,23),(1,2,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,16),(4,10,33),(3,7,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,16),(3,7,23),(2,4,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,10),(2,5,16),(4,10,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,10),(2,5,16),(4,11,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,10),(1,2,7),(4,10,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,10),(1,2,7),(2,6,21)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,7),(1,3,11),(2,6,21),(1,2,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,18),(2,6,21),(1,3,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(2,5,18),(1,3,11)); lvl=4; h,r-ind=1,1
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    [3,3]((1,2,7),(1,2,8),(2,5,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,7),(2,5,18),(2,6,21)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,12),(1,3,11),(1,2,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,12),(1,3,11),(2,7,25)); lvl=3; h,r-ind=1,1
[3,3]((1,4,15),(2,7,25),(1,3,12)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
[3,3]((2,7,28),(1,4,15),(1,3,12)); lvl=2; h,r-ind=1,1
[5,3]((1,4,15),(1,5,17),(1,5,14),(2,7,22),(2,7,25)); lvl=2; h,r-ind=3,3
  [4,3]((1,4,14),(2,10,31),(2,8,27),(1,5,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,16),(2,10,31),(2,9,29)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,16),(5,22,73),(3,13,43),(2,9,29)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,59),(5,22,73),(3,13,43)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,29),(4,18,59),(3,13,43)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,16),(2,9,29),(4,18,59)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,16),(4,18,59),(5,22,73)); lvl=5; h,r-ind=1,1
    [3,3]((2,8,27),(3,13,43),(2,9,29)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,14),(5,22,73),(2,8,27),(3,13,43)); lvl=4; h,r-ind=1,1
      [3,3]((5,22,73),(3,13,43),(4,17,57)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,27),(3,13,43),(4,17,57)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,14),(2,8,27),(4,17,57)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,14),(5,22,73),(4,17,57)); lvl=5; h,r-ind=1,1
    [4,3]((1,4,14),(1,5,17),(1,5,16),(5,22,73)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((2,9,30),(1,5,16),(1,5,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,14),(2,9,30),(1,5,17)); lvl=5; h,r-ind=1,1
      [3,3]((5,22,73),(2,9,30),(1,5,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,14),(5,22,73),(2,9,30)); lvl=5; h,r-ind=1,1
  [3,3]((1,4,15),(1,4,14),(1,5,17)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,14),(2,10,31),(2,8,27),(1,4,12)); lvl=3; h,r-ind=3,1
    [3,3]((2,9,29),(1,4,13),(2,8,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,15),(2,9,29),(1,4,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,14),(1,5,15),(1,4,12),(1,4,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,12),(1,4,13),(2,9,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,15),(1,4,13),(2,9,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,14),(1,4,12),(2,9,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,15),(1,5,14),(2,9,27)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,15),(2,9,29),(2,10,31)); lvl=4; h,r-ind=1,1
  [4,3]((2,8,27),(1,4,12),(2,7,22),(4,14,47)); lvl=3; h,r-ind=3,1
    [4,3]((1,4,13),(1,4,12),(2,7,23),(2,7,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,23),(2,7,22),(3,11,35)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,12),(2,7,22),(3,11,35)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,13),(1,4,12),(3,11,35)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,13),(2,7,23),(3,11,35)); lvl=5; h,r-ind=1,1
    [3,3]((3,11,37),(1,4,13),(2,7,23)); lvl=4; h,r-ind=1,1
    [3,3]((3,11,37),(4,14,47),(2,7,23)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,27),(3,11,37),(1,4,13)); lvl=4; h,r-ind=1,1
  [4,3]((2,7,25),(1,4,14),(2,8,27),(4,14,47)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,14),(7,26,89),(2,8,27),(4,15,51)); lvl=4; h,r-ind=1,1
      [3,3]((7,26,89),(5,19,65),(4,15,51)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,27),(5,19,65),(4,15,51)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,14),(2,8,27),(5,19,65)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,14),(7,26,89),(5,19,65)); lvl=5; h,r-ind=1,1
    [3,3]((3,11,37),(2,8,27),(4,15,51)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,24),(3,11,37),(7,26,89),(4,15,51)); lvl=4; h,r-ind=1,1
      [3,3]((6,22,75),(3,11,37),(4,15,51)); lvl=5; h,r-ind=1,1
      [3,3]((7,26,89),(6,22,75),(4,15,51)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,24),(7,26,89),(6,22,75)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,24),(6,22,75),(3,11,37)); lvl=5; h,r-ind=1,1
    [3,3]((2,7,24),(3,11,37),(4,14,47)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,25),(2,7,24),(1,4,14),(7,26,89)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((2,7,24),(3,11,38),(7,26,89)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,14),(3,11,38),(7,26,89)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,25),(1,4,14),(3,11,38)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,25),(2,7,24),(3,11,38)); lvl=5; h,r-ind=1,1
  [3,3]((1,4,15),(2,7,25),(1,4,14)); lvl=3; h,r-ind=1,1
[4,3]((1,5,11),(1,5,14),(2,7,22),(2,7,16)); lvl=2; h,r-ind=9,3
  [4,3]((2,8,21),(1,4,12),(2,7,22),(2,7,19)); lvl=3; h,r-ind=3,1
    [4,3]((1,4,11),(4,14,41),(1,4,12),(2,7,22)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,12),(4,15,44),(2,7,21),(2,7,22)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,15,44),(3,11,33),(2,7,21)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,22),(3,11,33),(2,7,21)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,12),(4,15,44),(3,11,33)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,22),(1,4,12),(3,11,33)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,11),(1,4,12),(4,15,44)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,11),(4,15,44),(2,7,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,11),(4,14,41),(2,7,21)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,11),(2,7,19),(4,14,41)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((2,8,21),(1,4,11),(2,7,19)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,9),(2,7,16),(2,8,21),(2,7,19)); lvl=3; h,r-ind=3,1
    [3,3]((1,4,10),(4,14,35),(2,7,19)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((1,4,10),(2,8,21),(2,7,19)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,9),(1,4,10),(2,7,16),(4,14,35)); lvl=4; h,r-ind=1,1
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          [3,3]((1,4,10),(2,7,17),(4,14,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,10),(2,7,17),(4,15,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,10),(1,4,9),(4,15,36)); lvl=5; h,r-ind=1,1
          [4,3]((1,4,9),(2,7,16),(2,7,17),(4,15,36)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,11,26),(2,7,16),(2,7,17)); lvl=6; h,r-ind=1,1
            [3,3]((4,15,36),(3,11,26),(2,7,17)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,9),(4,15,36),(3,11,26)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,9),(3,11,26),(2,7,16)); lvl=6; h,r-ind=1,1
      [4,3]((2,8,21),(1,4,12),(1,5,14),(2,10,25)); lvl=3; h,r-ind=3,1
        [4,3]((1,4,11),(1,4,12),(1,5,13),(1,5,14)); lvl=4; h,r-ind=1,1
          [3,3]((1,5,13),(1,5,14),(2,9,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,12),(1,5,14),(2,9,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,11),(1,5,13),(2,9,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,12),(1,4,11),(2,9,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,23),(1,4,11),(1,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,25),(2,9,23),(1,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,21),(2,9,23),(1,4,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,11),(1,4,9),(2,8,21),(2,10,25)); lvl=3; h,r-ind=3,1
        [3,3]((2,9,23),(2,8,21),(1,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,12),(2,9,23),(1,4,10)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,11),(1,5,12),(1,4,9),(1,4,10)); lvl=4; h,r-ind=1,1
          [3,3]((1,4,9),(1,4,10),(2,9,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(1,4,10),(2,9,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(1,4,9),(2,9,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(1,5,11),(2,9,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,12),(2,10,25),(2,9,23)); lvl=4; h,r-ind=1,1
[3,3]((1,0,0),(1,2,8),(1,2,5)); lvl=1; h,r-ind=6,6; optimized-h
[4,3]((0,1,0),(1,5,11),(1,0,0),(1,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,2),(1,3,6),(2,7,16),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,7),(2,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,2,4),(1,3,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(1,2,5),(1,2,4),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,3,7),(2,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,7),(2,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,5),(2,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,1,2),(2,4,9)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(1,2,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,6),(1,5,6),(1,5,11),(2,7,16)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,15),(2,10,17),(1,5,11),(1,4,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,8),(1,4,9),(1,5,11),(2,10,19)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,9),(3,13,27),(1,5,10),(1,5,11)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,19),(3,13,27),(1,5,10)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,11),(2,9,19),(1,5,10)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,9),(1,5,11),(2,9,19)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,9),(2,9,19),(3,13,27)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,8),(1,4,9),(3,13,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(3,13,27),(1,5,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,19),(1,4,8),(1,5,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,9),(2,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(2,9,16),(1,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(2,10,17),(1,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,15),(1,4,8),(2,9,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,15),(2,7,14),(1,4,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,3,6),(2,7,16),(2,7,14),(1,4,9)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,15),(1,4,9),(2,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,15),(2,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,14),(2,7,15),(1,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,14),(2,7,15)); lvl=4; h,r-ind=1,1
    [4,3]((2,8,15),(1,5,6),(1,4,6),(2,10,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,7),(2,10,15),(1,5,6),(1,4,6)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,6),(3,13,20),(1,5,7),(1,5,6)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((1,5,7),(3,13,20),(2,9,13)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,6),(3,13,20),(2,9,13)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,6),(1,5,7),(2,9,13)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,6),(1,5,6),(2,9,13)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,7),(1,4,6),(3,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(3,13,20),(1,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(2,10,15),(1,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,7),(1,5,8),(2,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,9,16),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(1,5,8),(2,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,9,16),(2,8,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,6),(2,8,15),(2,7,14),(1,4,6)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,14),(1,4,7),(4,14,27),(2,8,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,14,27),(3,11,21),(1,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,15),(3,11,21),(1,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,14),(4,14,27),(3,11,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,15),(2,7,14),(3,11,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,14),(4,14,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,7),(4,14,27)); lvl=4; h,r-ind=1,1
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    [3,3]((1,3,6),(1,4,6),(1,4,7)); lvl=4; h,r-ind=1,1
[3,3]((0,1,0),(1,5,6),(1,5,11)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
[5,3]((1,1,2),(1,3,6),(2,2,3),(1,5,6),(2,10,11)); lvl=2; h,r-ind=2,1; alert-h-inc
  [4,3]((1,3,4),(1,4,5),(2,10,11),(2,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(6,22,27),(2,10,11),(2,8,9)); lvl=4; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [3,3]((4,16,19),(4,15,18),(2,8,9)); lvl=5; h,r-ind=2,2; optimized-h
      [3,3]((2,9,10),(4,16,19),(2,8,9)); lvl=5; h,r-ind=2,2; optimized-h
      [4,3]((1,4,5),(2,10,11),(2,9,10),(4,16,19)); lvl=5; h,r-ind=1,2
        [3,3]((3,13,15),(2,9,10),(2,10,11)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(3,13,15),(2,10,11)); lvl=6; h,r-ind=1,1
        [3,3]((4,16,19),(1,4,5),(3,13,15)); lvl=6; h,r-ind=1,1
        [3,3]((4,16,19),(3,13,15),(2,9,10)); lvl=6; h,r-ind=1,1
      [4,3]((1,4,5),(4,16,19),(6,22,27),(4,15,18)); lvl=5; h,r-ind=1,2
        [3,3]((5,19,23),(4,16,19),(4,15,18)); lvl=6; h,r-ind=1,1
        [3,3]((6,22,27),(5,19,23),(4,15,18)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(6,22,27),(5,19,23)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(5,19,23),(4,16,19)); lvl=6; h,r-ind=1,1
    [4,3]((2,6,7),(1,3,4),(6,22,27),(2,8,9)); lvl=4; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,3,4),(4,15,18),(6,22,27),(4,14,17)); lvl=5; h,r-ind=1,2
        [3,3]((4,15,18),(6,22,27),(5,18,22)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(6,22,27),(5,18,22)); lvl=6; h,r-ind=1,1
        [3,3]((4,14,17),(4,15,18),(5,18,22)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(4,14,17),(5,18,22)); lvl=6; h,r-ind=1,1
      [4,3]((2,7,8),(2,6,7),(1,3,4),(4,14,17)); lvl=5; h,r-ind=1,2
        [3,3]((1,3,4),(3,10,12),(2,6,7)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,8),(3,10,12),(2,6,7)); lvl=6; h,r-ind=1,1
        [3,3]((4,14,17),(1,3,4),(3,10,12)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,8),(4,14,17),(3,10,12)); lvl=6; h,r-ind=1,1
      [3,3]((2,8,9),(4,15,18),(4,14,17)); lvl=5; h,r-ind=2,2; optimized-h
      [3,3]((2,8,9),(2,7,8),(4,14,17)); lvl=5; h,r-ind=2,2; optimized-h
    [3,3]((1,3,4),(1,4,5),(6,22,27)); lvl=4; h,r-ind=1,1
  [4,3]((1,2,3),(1,3,4),(2,2,3),(2,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(6,14,19),(2,6,7),(2,4,5)); lvl=4; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,3,4),(4,10,13),(4,9,12),(6,14,19)); lvl=5; h,r-ind=1,2
        [3,3]((4,9,12),(5,12,16),(4,10,13)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(5,12,16),(4,10,13)); lvl=6; h,r-ind=1,1
        [3,3]((6,14,19),(4,9,12),(5,12,16)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(6,14,19),(5,12,16)); lvl=6; h,r-ind=1,1
      [3,3]((2,4,5),(4,10,13),(4,9,12)); lvl=5; h,r-ind=2,2; optimized-h
      [3,3]((2,5,6),(2,4,5),(4,10,13)); lvl=5; h,r-ind=2,2; optimized-h
      [4,3]((1,3,4),(2,6,7),(2,5,6),(4,10,13)); lvl=5; h,r-ind=1,2
        [3,3]((3,8,10),(2,6,7),(2,5,6)); lvl=6; h,r-ind=1,1
        [3,3]((4,10,13),(3,8,10),(2,5,6)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(4,10,13),(3,8,10)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=6; h,r-ind=1,1
    [4,3]((2,2,3),(1,2,3),(6,14,19),(2,4,5)); lvl=4; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((4,8,11),(1,2,3),(4,9,12),(6,14,19)); lvl=5; h,r-ind=1,2
        [3,3]((1,2,3),(6,14,19),(5,11,15)); lvl=6; h,r-ind=1,1
        [3,3]((4,9,12),(6,14,19),(5,11,15)); lvl=6; h,r-ind=1,1
        [3,3]((4,8,11),(4,9,12),(5,11,15)); lvl=6; h,r-ind=1,1
        [3,3]((4,8,11),(1,2,3),(5,11,15)); lvl=6; h,r-ind=1,1
      [3,3]((2,4,5),(4,8,11),(4,9,12)); lvl=5; h,r-ind=2,2; optimized-h
      [3,3]((2,4,5),(2,3,4),(4,8,11)); lvl=5; h,r-ind=2,2; optimized-h
      [4,3]((2,2,3),(2,3,4),(4,8,11),(1,2,3)); lvl=5; h,r-ind=1,2
        [3,3]((2,3,4),(3,5,7),(4,8,11)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,3),(3,5,7),(4,8,11)); lvl=6; h,r-ind=1,1
        [3,3]((2,2,3),(1,2,3),(3,5,7)); lvl=6; h,r-ind=1,1
        [3,3]((2,2,3),(2,3,4),(3,5,7)); lvl=6; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,4),(6,14,19)); lvl=4; h,r-ind=1,1
  [3,3]((1,1,2),(1,2,3),(2,2,3)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,5),(1,5,6),(2,10,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,5),(1,4,6),(2,7,10),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,10),(2,8,11),(1,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(2,8,11),(1,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,10),(2,8,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,5),(2,8,11)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,6),(2,6,9),(1,4,6),(2,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,9),(1,3,5),(2,7,10),(4,14,21)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,10),(4,14,21),(3,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(4,14,21),(3,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,9),(1,3,5),(3,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,9),(2,7,10),(3,10,15)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,10),(4,14,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(1,3,5),(4,14,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(1,4,6),(1,3,5)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,4),(2,6,9),(1,4,5),(2,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(2,7,10),(3,10,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,10),(3,10,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,5),(3,10,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,9),(3,10,14)); lvl=4; h,r-ind=1,1
```

```
    [4,3]((1,2,3),(1,3,4),(2,5,8),(2,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(3,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(2,6,9),(3,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(3,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(1,2,3),(3,8,12)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,2),(1,2,4),(1,2,3),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,8),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,8),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(2,4,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(1,3,6),(2,5,8),(2,6,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,8),(1,3,5),(2,6,9),(4,10,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,9),(3,8,13),(1,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,17),(3,8,13),(1,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,8),(4,10,17),(3,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,8),(2,6,9),(3,8,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,8),(4,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(4,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(1,3,6)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,2,3),(2,10,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(2,6,7),(1,3,3),(1,1,1)); lvl=3; h,r-ind=2,1; alert-h-inc
      [4,3]((2,6,7),(2,4,5),(1,3,3),(1,2,2)); lvl=4; h,r-ind=1,1
        [4,3]((2,4,5),(2,5,6),(1,2,2),(4,10,11)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,7,8),(2,5,6),(4,10,11)); lvl=6; h,r-ind=1,1
          [3,3]((3,7,8),(1,2,2),(4,10,11)); lvl=6; h,r-ind=1,1
          [3,3]((2,4,5),(3,7,8),(1,2,2)); lvl=6; h,r-ind=1,1
          [3,3]((2,4,5),(3,7,8),(2,5,6)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(4,10,11)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,3),(2,6,7),(2,5,6),(4,10,11)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,6,7),(3,8,9),(2,5,6)); lvl=6; h,r-ind=1,1
          [3,3]((4,10,11),(3,8,9),(2,5,6)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,3),(4,10,11),(3,8,9)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=6; h,r-ind=1,1
      [4,3]((1,1,1),(2,2,3),(2,4,5),(1,2,2)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,2),(4,6,7),(2,4,5),(2,3,4)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,6),(4,6,7),(2,3,4)); lvl=6; h,r-ind=1,1
          [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,2),(3,5,6),(4,6,7)); lvl=6; h,r-ind=1,1
        [4,3]((1,1,1),(4,6,7),(2,2,3),(2,3,4)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,5),(2,3,4),(4,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(3,4,5),(4,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(4,6,7)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,1,1)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,5),(2,10,11),(2,6,7),(1,3,3)); lvl=3; h,r-ind=2,1; alert-h-inc
      [4,3]((1,4,4),(1,3,3),(2,8,9),(2,6,7)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,3),(4,14,15),(2,6,7),(2,7,8)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,14,15),(3,10,11),(2,7,8)); lvl=6; h,r-ind=1,1
          [3,3]((2,6,7),(3,10,11),(2,7,8)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,3),(4,14,15),(3,10,11)); lvl=6; h,r-ind=1,1
          [3,3]((2,6,7),(1,3,3),(3,10,11)); lvl=6; h,r-ind=1,1
        [4,3]((2,8,9),(1,4,4),(4,14,15),(2,7,8)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,11,12),(1,4,4),(4,14,15)); lvl=6; h,r-ind=1,1
          [3,3]((3,11,12),(2,7,8),(4,14,15)); lvl=6; h,r-ind=1,1
          [3,3]((2,8,9),(3,11,12),(2,7,8)); lvl=6; h,r-ind=1,1
          [3,3]((2,8,9),(3,11,12),(1,4,4)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,4),(1,3,3),(4,14,15)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,5),(1,4,4),(2,10,11),(2,8,9)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,4),(4,18,19),(2,8,9),(2,9,10)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,18,19),(2,9,10),(3,13,14)); lvl=6; h,r-ind=1,1
          [3,3]((2,8,9),(2,9,10),(3,13,14)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,4),(2,8,9),(3,13,14)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,4),(4,18,19),(3,13,14)); lvl=6; h,r-ind=1,1
        [4,3]((2,10,11),(1,5,5),(4,18,19),(2,9,10)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,15),(1,5,5),(4,18,19)); lvl=6; h,r-ind=1,1
          [3,3]((3,14,15),(2,9,10),(4,18,19)); lvl=6; h,r-ind=1,1
          [3,3]((2,10,11),(3,14,15),(2,9,10)); lvl=6; h,r-ind=1,1
          [3,3]((2,10,11),(3,14,15),(1,5,5)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,5),(1,4,4),(4,18,19)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,3,3)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,5,5),(2,10,11)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,6),(2,10,11)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,5,11),(1,5,17)); lvl=1; h,r-ind=6,6; optimized-h
[3,3]((1,5,22),(0,1,0),(1,5,17)); lvl=1; h,r-ind=5,5; optimized-h
[3,3]((1,0,0),(1,2,8),(2,4,17)); lvl=1; h,r-ind=2,2; optimized-h
```

```
  [3,3]((1,5,22),(1,3,13),(1,4,17)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,13),(2,4,17)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,22),(1,0,0),(1,3,13)); lvl=1; h,r-ind=1,1
```

22.12 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,6,22)); lvl=0; h,r-ind=22,242
  [5,3]((1,4,14),(1,3,10),(1,4,12),(1,5,15),(1,5,17)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,13),(1,5,15),(1,5,16)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,17),(1,4,13),(1,5,16)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,14),(1,5,17),(1,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,10),(1,4,14),(1,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,13),(1,4,12),(1,5,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,10),(1,4,13),(1,4,12)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,22),(1,6,16),(1,5,15),(1,5,17)); lvl=1; h,r-ind=2,1
    [4,3]((1,6,19),(1,5,16),(1,6,16),(1,5,15)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,16),(4,21,64),(1,5,15)); lvl=3; h,r-ind=1,1
      [4,3]((2,12,35),(1,6,16),(4,21,64),(1,5,15)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,5,15),(1,6,17),(5,27,80),(1,6,16)); lvl=4; h,r-ind=1,3
          [3,3]((2,11,32),(5,27,80),(1,6,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,16),(2,11,32),(1,6,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,15),(1,6,16),(2,11,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,15),(2,11,32),(5,27,80)); lvl=5; h,r-ind=1,1
        [4,3]((2,11,33),(4,21,64),(1,5,15),(5,27,80)); lvl=4; h,r-ind=1,3
          [3,3]((3,16,48),(1,5,15),(4,21,64)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,33),(3,16,48),(4,21,64)); lvl=5; h,r-ind=1,1
          [3,3]((5,27,80),(3,16,48),(1,5,15)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,33),(5,27,80),(3,16,48)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,33),(1,6,17),(5,27,80)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,12,35),(2,11,33),(1,6,17)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,19),(2,12,35),(1,5,16),(4,21,64)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,5,16),(5,27,83),(2,11,33),(4,21,64)); lvl=4; h,r-ind=1,3
          [3,3]((2,11,33),(3,16,49),(5,27,83)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,16),(3,16,49),(5,27,83)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,64),(2,11,33),(3,16,49)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,16),(4,21,64),(3,16,49)); lvl=5; h,r-ind=1,1
        [4,3]((1,6,18),(1,6,19),(1,5,16),(5,27,83)); lvl=4; h,r-ind=1,3
          [3,3]((1,6,19),(2,11,34),(1,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((5,27,83),(2,11,34),(1,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,18),(5,27,83),(2,11,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,18),(1,6,19),(2,11,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,18),(5,27,83),(2,11,33)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,6,18),(2,12,35),(2,11,33)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,22),(1,6,19),(1,5,16),(1,5,17)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,19),(2,12,41),(1,5,16),(4,21,70)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,5,16),(4,21,70),(5,27,89),(2,11,37)); lvl=4; h,r-ind=1,3
          [3,3]((3,16,53),(2,11,37),(4,21,70)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,16),(3,16,53),(4,21,70)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,53),(5,27,89),(2,11,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,16),(3,16,53),(5,27,89)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,20),(5,27,89),(2,11,37)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,6,20),(2,12,41),(2,11,37)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,16),(1,6,19),(1,6,20),(5,27,89)); lvl=4; h,r-ind=1,3
          [3,3]((2,11,36),(1,6,19),(1,6,20)); lvl=5; h,r-ind=1,1
          [3,3]((5,27,89),(2,11,36),(1,6,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,16),(5,27,89),(2,11,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,16),(2,11,36),(1,6,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,17),(1,5,16),(4,21,70)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,22),(1,5,17),(2,12,41),(4,21,70)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((5,27,92),(1,5,17),(2,11,37),(4,21,70)); lvl=4; h,r-ind=1,3
          [3,3]((3,16,54),(1,5,17),(4,21,70)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,37),(3,16,54),(4,21,70)); lvl=5; h,r-ind=1,1
          [3,3]((5,27,92),(3,16,54),(1,5,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,37),(5,27,92),(3,16,54)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,21),(5,27,92),(2,11,37)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,12,41),(1,6,21),(2,11,37)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,22),(1,6,21),(5,27,92),(1,5,17)); lvl=4; h,r-ind=1,3
          [3,3]((2,11,38),(1,6,21),(5,27,92)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,17),(2,11,38),(5,27,92)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,22),(2,11,38),(1,6,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,17),(1,6,22),(2,11,38)); lvl=5; h,r-ind=1,1
  [3,3]((1,6,22),(1,4,14),(1,5,17)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,0,0),(1,3,11),(1,4,14),(1,3,10)); lvl=1; h,r-ind=1,2
    [3,3]((1,3,11),(1,2,7),(1,4,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,10),(1,2,7),(1,4,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,3,10),(1,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,3,11),(1,2,7)); lvl=2; h,r-ind=1,1
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[3,3]((1,6,22),(1,3,11),(1,4,14)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((1,0,0),(1,4,8),(1,3,10),(1,4,12)); lvl=1; h,r-ind=4,4
  [4,3]((1,3,8),(1,4,10),(1,4,12),(1,3,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,9),(3,10,28),(1,4,11),(1,4,12)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,20),(3,10,28),(1,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,12),(2,7,20),(1,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(1,4,12),(2,7,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(2,7,20),(3,10,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,8),(1,3,9),(3,10,28)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,8),(3,10,28),(1,4,10),(1,4,11)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,4,10),(2,7,19),(1,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,28),(2,7,19),(1,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(1,4,10),(2,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,28),(1,3,8),(2,7,19)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,10),(1,4,12),(1,3,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,8),(3,7,19),(1,2,6),(1,3,9)); lvl=2; h,r-ind=1,2
    [3,3]((2,5,14),(1,2,6),(3,7,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(2,5,14),(3,7,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,9),(2,5,14),(1,2,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(1,3,9),(2,5,14)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,10),(1,2,6),(1,3,9)); lvl=2; h,r-ind=1,1
  [6,3]((1,4,8),(1,2,4),(1,3,8),(1,4,10),(3,7,19),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,7),(1,4,8),(1,4,9),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(1,4,8),(2,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,8),(2,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,6),(2,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(1,4,9),(2,7,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(1,3,7),(2,5,12),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(2,5,12),(1,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,11),(1,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,6),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,11),(2,5,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,4),(2,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,7),(2,6,15),(2,5,12),(3,8,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,15),(3,8,20),(4,11,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(3,8,20),(4,11,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,12),(4,11,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(2,6,15),(4,11,27)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,5),(2,5,12),(2,5,13),(3,8,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(3,8,20),(4,10,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(3,8,20),(4,10,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,12),(4,10,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(1,2,5),(4,10,25)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,19),(1,2,5),(2,5,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,8),(2,6,15),(2,5,13),(3,8,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,15),(3,8,20),(4,11,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(3,8,20),(4,11,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(2,6,15),(4,11,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(1,3,8),(4,11,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,8),(3,7,19),(2,5,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,10),(1,3,7),(2,6,15),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,15),(2,7,17),(1,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(2,7,17),(1,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,10),(2,6,15),(2,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(1,4,10),(2,7,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,8),(1,4,10),(2,6,15)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,3),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(3,4,10),(1,2,4),(1,2,5)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,4),(2,3,7),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(2,3,7),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(1,1,2),(2,3,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,10),(1,2,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,2),(1,1,3),(3,4,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,2,5),(1,1,2),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,5),(1,1,3),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,5),(1,1,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,5),(1,1,2)); lvl=4; h,r-ind=1,1
  [4,3]((1,1,3),(3,7,19),(1,2,5),(1,2,6)); lvl=2; h,r-ind=1,2
    [3,3]((1,2,5),(3,7,19),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(3,7,19),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(1,2,5),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(1,1,3),(2,4,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,10),(1,1,3),(1,2,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,10),(1,1,3)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(1,6,11),(1,0,0),(1,4,8)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,9),(1,6,11),(1,4,8)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,4),(1,5,9),(1,3,5),(1,4,8)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((1,4,8),(1,3,6),(1,5,9),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,7),(2,8,15)); lvl=4; h,r-ind=1,1
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      [3,3]((1,5,9),(1,4,7),(2,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,3,6),(2,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(1,4,8),(2,8,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(1,3,6),(1,3,5),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,7),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,4,7),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,6),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,4),(2,6,11)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,5),(1,0,0),(1,2,4),(1,3,5)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((2,5,7),(2,5,8),(1,1,2),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,8),(4,9,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(2,5,7),(2,5,8),(4,9,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,11),(2,5,7),(2,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,15),(3,7,11),(2,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(4,9,15),(3,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(3,7,11),(2,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,4),(4,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(1,2,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,8),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(2,5,7),(1,3,5),(2,5,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(4,11,17),(2,5,8),(2,5,7)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,12),(4,11,17),(2,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,7),(3,8,12),(2,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,7),(3,8,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,12),(4,11,17)); lvl=5; h,r-ind=1,1
      [3,3]((4,11,17),(1,3,5),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(4,11,17),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,5),(1,3,5)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,5),(2,5,7),(1,1,2),(1,0,0)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,3,3),(1,2,3),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,3,3),(1,1,1)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,6),(1,2,3),(1,1,1)); lvl=5; h,r-ind=1,1
        [4,3]((1,0,0),(1,1,2),(3,4,6),(1,1,1)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,2,3),(1,1,2),(3,4,6)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(3,4,6)); lvl=6; h,r-ind=1,1
          [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(1,0,0),(2,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,2),(3,4,6),(1,2,3)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(1,2,2),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(2,5,7),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,5),(2,5,6),(1,2,2)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,5),(1,5,5),(2,5,5),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(2,7,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,5),(1,3,4),(1,5,5),(2,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,4),(3,11,13)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,5),(1,5,5),(1,4,4),(3,11,13)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,8,9),(1,5,5),(1,4,4)); lvl=6; h,r-ind=1,1
          [3,3]((3,11,13),(2,8,9),(1,4,4)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(3,11,13),(2,8,9)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(2,8,9),(1,5,5)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(1,3,4),(3,11,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,7),(1,4,4)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,6),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(2,5,5),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,6),(2,5,7)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,5),(1,0,0)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((1,5,5),(2,11,11),(1,5,9),(2,11,19),(1,3,5)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((1,5,7),(2,11,11),(1,5,6),(2,11,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,6),(6,31,39),(2,11,13),(2,11,11)); lvl=4; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [3,3]((2,11,12),(2,11,13),(4,21,25)); lvl=5; h,r-ind=2,2; optimized-h
        [3,3]((4,21,26),(2,11,13),(4,21,25)); lvl=5; h,r-ind=2,2; optimized-h
        [4,3]((1,5,6),(4,21,26),(6,31,39),(4,21,25)); lvl=5; h,r-ind=1,2
          [3,3]((5,26,32),(6,31,39),(4,21,26)); lvl=6; h,r-ind=1,1
          [3,3]((4,21,25),(5,26,32),(4,21,26)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,6),(4,21,25),(5,26,32)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,6),(5,26,32),(6,31,39)); lvl=6; h,r-ind=1,1
        [4,3]((1,5,6),(2,11,11),(2,11,12),(4,21,25)); lvl=5; h,r-ind=1,2
          [3,3]((3,16,18),(2,11,12),(2,11,11)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,6),(3,16,18),(2,11,11)); lvl=6; h,r-ind=1,1
          [3,3]((3,16,18),(4,21,25),(2,11,12)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,6),(3,16,18),(4,21,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,7),(1,5,6),(6,31,39)); lvl=4; h,r-ind=1,1
        [4,3]((2,11,15),(1,5,7),(6,31,39),(2,11,13)); lvl=4; h,r-ind=2,4; alert-h-inc; alert-r-inc
          [4,3]((1,5,7),(6,31,39),(4,21,26),(4,21,27)); lvl=5; h,r-ind=1,2
            [3,3]((4,21,26),(6,31,39),(5,26,33)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,7),(6,31,39),(5,26,33)); lvl=6; h,r-ind=1,1
            [3,3]((4,21,27),(4,21,26),(5,26,33)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,7),(4,21,27),(5,26,33)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,13),(4,21,26),(4,21,27)); lvl=5; h,r-ind=2,2; optimized-h
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      [3,3]((2,11,13),(2,11,14),(4,21,27)); lvl=5; h,r-ind=2,2; optimized-h
      [4,3]((2,11,15),(2,11,14),(1,5,7),(4,21,27)); lvl=5; h,r-ind=1,2
        [3,3]((2,11,14),(4,21,27),(3,16,21)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,7),(4,21,27),(3,16,21)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,15),(2,11,14),(3,16,21)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,7),(2,11,15),(3,16,21)); lvl=6; h,r-ind=1,1
  [4,3]((1,5,7),(2,11,19),(1,5,8),(2,11,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,8),(6,31,47),(2,11,17),(2,11,19)); lvl=4; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [3,3]((4,21,32),(2,11,17),(4,21,33)); lvl=5; h,r-ind=2,2; optimized-h
      [3,3]((2,11,18),(2,11,17),(4,21,33)); lvl=5; h,r-ind=2,2; optimized-h
      [4,3]((1,5,8),(2,11,18),(2,11,19),(4,21,33)); lvl=5; h,r-ind=1,2
        [3,3]((2,11,19),(3,16,26),(2,11,18)); lvl=6; h,r-ind=1,1
        [3,3]((4,21,33),(3,16,26),(2,11,18)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,8),(4,21,33),(3,16,26)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,8),(2,11,19),(3,16,26)); lvl=6; h,r-ind=1,1
      [4,3]((1,5,8),(4,21,32),(6,31,47),(4,21,33)); lvl=5; h,r-ind=1,2
        [3,3]((5,26,40),(4,21,32),(6,31,47)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,8),(5,26,40),(6,31,47)); lvl=6; h,r-ind=1,1
        [3,3]((4,21,33),(5,26,40),(4,21,32)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,8),(4,21,33),(5,26,40)); lvl=6; h,r-ind=1,1
    [3,3]((1,5,7),(1,5,8),(6,31,47)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,15),(1,5,7),(6,31,47),(2,11,17)); lvl=4; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((4,21,31),(1,5,7),(6,31,47),(4,21,32)); lvl=5; h,r-ind=1,2
        [3,3]((5,26,39),(6,31,47),(1,5,7)); lvl=6; h,r-ind=1,1
        [3,3]((4,21,31),(5,26,39),(1,5,7)); lvl=6; h,r-ind=1,1
        [3,3]((5,26,39),(4,21,32),(6,31,47)); lvl=6; h,r-ind=1,1
        [3,3]((4,21,31),(5,26,39),(4,21,32)); lvl=6; h,r-ind=1,1
      [3,3]((2,11,17),(4,21,31),(4,21,32)); lvl=5; h,r-ind=2,2; optimized-h
      [3,3]((2,11,16),(2,11,17),(4,21,31)); lvl=5; h,r-ind=2,2; optimized-h
      [4,3]((2,11,15),(2,11,16),(4,21,31),(1,5,7)); lvl=5; h,r-ind=1,2
        [3,3]((3,16,23),(4,21,31),(2,11,16)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,15),(3,16,23),(2,11,16)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,7),(2,11,15),(3,16,23)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,7),(3,16,23),(4,21,31)); lvl=6; h,r-ind=1,1
  [3,3]((2,11,19),(1,5,9),(1,5,8)); lvl=3; h,r-ind=1,1
  [4,3]((2,9,13),(1,5,7),(2,9,14),(1,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,21),(1,5,8),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,13),(3,14,21),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,14),(3,14,21),(1,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,13),(2,9,14),(3,14,21)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,9),(1,4,7),(2,9,14),(1,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,15),(2,9,14),(1,4,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,9),(2,9,15),(1,4,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,15),(1,5,8),(2,9,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,9),(2,9,15),(1,5,8)); lvl=4; h,r-ind=1,1
  [4,3]((2,9,12),(2,9,13),(1,5,7),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,19),(1,5,7),(2,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,12),(3,14,19),(2,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,12),(3,14,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(3,14,19),(1,5,7)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,5),(1,5,5),(2,9,12),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,11),(1,5,6),(1,5,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(2,9,11),(1,5,5)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,11),(2,9,12),(1,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(2,9,11),(2,9,12)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,5),(2,9,12),(2,9,13),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(2,9,12),(2,9,13),(4,17,23)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,12),(2,9,13),(3,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(2,9,13),(3,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,23),(2,9,12),(3,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(4,17,23),(3,13,18)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,6),(4,17,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,6),(1,3,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(2,9,12),(4,17,23)); lvl=4; h,r-ind=1,1
  [4,3]((2,9,13),(1,3,5),(1,4,7),(2,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,4,7),(1,3,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(4,17,27),(1,4,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,14),(4,17,27),(1,4,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,6),(2,9,13),(2,9,14),(4,17,27)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,13),(3,13,20),(2,9,14)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,27),(3,13,20),(2,9,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(2,9,13),(3,13,20)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,27),(1,4,6),(3,13,20)); lvl=5; h,r-ind=1,1
  [3,3]((1,5,5),(2,11,11),(1,5,6)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,5,5),(2,11,11)); lvl=2; h,r-ind=1,1
[3,3]((1,5,9),(2,11,19),(1,6,11)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(2,11,11),(2,11,19),(1,6,11)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,8),(1,6,10),(2,11,19),(2,11,15)); lvl=3; h,r-ind=2,1; alert-h-inc
    [4,3]((1,6,10),(1,6,9),(2,11,19),(2,11,17)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,9),(4,23,37),(2,11,17),(2,11,18)); lvl=5; h,r-ind=1,2; alert-r-inc
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            [3,3]((3,17,27),(2,11,18),(2,11,17)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,9),(3,17,27),(2,11,17)); lvl=6; h,r-ind=1,1
            [3,3]((3,17,27),(4,23,37),(2,11,18)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,9),(3,17,27),(4,23,37)); lvl=6; h,r-ind=1,1
          [4,3]((1,6,10),(4,23,37),(2,11,19),(2,11,18)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,17,28),(2,11,19),(2,11,18)); lvl=6; h,r-ind=1,1
            [3,3]((4,23,37),(3,17,28),(2,11,18)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,10),(4,23,37),(3,17,28)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,10),(3,17,28),(2,11,19)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,10),(1,6,9),(4,23,37)); lvl=5; h,r-ind=1,1
        [4,3]((1,6,8),(2,11,15),(1,6,9),(2,11,17)); lvl=4; h,r-ind=1,1
          [4,3]((1,6,9),(4,23,33),(2,11,16),(2,11,17)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,17,25),(2,11,16),(4,23,33)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,9),(3,17,25),(4,23,33)); lvl=6; h,r-ind=1,1
            [3,3]((3,17,25),(2,11,17),(2,11,16)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,9),(3,17,25),(2,11,17)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,8),(1,6,9),(4,23,33)); lvl=5; h,r-ind=1,1
          [4,3]((1,6,8),(4,23,33),(2,11,15),(2,11,16)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,11,15),(3,17,24),(2,11,16)); lvl=6; h,r-ind=1,1
            [3,3]((4,23,33),(3,17,24),(2,11,16)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,8),(4,23,33),(3,17,24)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,8),(2,11,15),(3,17,24)); lvl=6; h,r-ind=1,1
      [4,3]((1,6,8),(1,6,6),(2,11,11),(2,11,15)); lvl=3; h,r-ind=2,1; alert-h-inc
        [4,3]((1,6,7),(2,11,13),(1,6,6),(2,11,11)); lvl=4; h,r-ind=1,1
          [4,3]((1,6,6),(4,23,25),(2,11,11),(2,11,12)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,11,11),(3,17,18),(2,11,12)); lvl=6; h,r-ind=1,1
            [3,3]((4,23,25),(3,17,18),(2,11,12)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,6),(4,23,25),(3,17,18)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,6),(2,11,11),(3,17,18)); lvl=6; h,r-ind=1,1
          [4,3]((1,6,7),(4,23,25),(2,11,13),(2,11,12)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,11,13),(3,17,19),(2,11,12)); lvl=6; h,r-ind=1,1
            [3,3]((4,23,25),(3,17,19),(2,11,12)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,7),(2,11,13),(3,17,19)); lvl=6; h,r-ind=1,1
            [3,3]((4,23,25),(1,6,7),(3,17,19)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,7),(1,6,6),(4,23,25)); lvl=5; h,r-ind=1,1
        [4,3]((1,6,8),(1,6,7),(2,11,15),(2,11,13)); lvl=4; h,r-ind=1,1
          [4,3]((1,6,7),(4,23,29),(2,11,13),(2,11,14)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,11,13),(3,17,21),(2,11,14)); lvl=6; h,r-ind=1,1
            [3,3]((4,23,29),(3,17,21),(2,11,14)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,7),(4,23,29),(3,17,21)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,7),(2,11,13),(3,17,21)); lvl=6; h,r-ind=1,1
          [4,3]((1,6,8),(4,23,29),(2,11,15),(2,11,14)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,11,15),(3,17,22),(2,11,14)); lvl=6; h,r-ind=1,1
            [3,3]((4,23,29),(3,17,22),(2,11,14)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,8),(2,11,15),(3,17,22)); lvl=6; h,r-ind=1,1
            [3,3]((4,23,29),(1,6,8),(3,17,22)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,8),(1,6,7),(4,23,29)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(2,11,11)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,8),(1,6,6)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((0,1,0),(1,6,8),(1,6,10)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,6,11),(1,6,10),(2,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,11),(1,6,10)); lvl=3; h,r-ind=1,1
[5,3]((1,6,16),(1,6,11),(1,4,8),(1,4,12),(1,5,15)); lvl=1; h,r-ind=1,2
  [4,3]((1,6,16),(2,12,27),(1,5,12),(1,5,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,14),(2,12,27),(1,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((2,12,29),(1,5,13),(1,6,14),(1,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,27),(1,5,12),(1,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,29),(2,11,27),(1,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,27),(1,6,14),(1,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,29),(2,11,27),(1,6,14)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,16),(2,12,29),(1,5,13),(1,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,15),(1,5,13),(2,12,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,15),(3,16,42),(1,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,42),(1,5,14),(1,5,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,16),(1,6,15),(3,16,42),(1,5,14)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,6,15),(3,16,42),(2,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,14),(3,16,42),(2,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,16),(1,6,15),(2,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,14),(1,6,16),(2,11,29)); lvl=5; h,r-ind=1,1
  [4,3]((1,4,10),(1,4,12),(1,5,12),(1,5,14)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((1,4,12),(1,4,11),(1,5,14),(1,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,14),(1,5,13),(2,9,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(1,5,13),(2,9,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,12),(1,5,14),(2,9,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(1,4,12),(2,9,25)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,10),(1,4,11),(1,5,12),(1,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,12),(1,5,13),(2,9,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(1,5,13),(2,9,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,10),(1,5,12),(2,9,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(1,4,10),(2,9,23)); lvl=4; h,r-ind=1,1
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    [3,3]((1,5,15),(1,4,12),(1,5,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,16),(1,5,15),(1,5,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,11),(1,5,10),(2,12,27),(1,5,12)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,13),(2,12,25),(1,5,12),(1,5,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,11),(1,5,12),(2,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,13),(1,5,12),(2,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,25),(1,6,13),(2,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,25),(1,5,11),(2,11,24)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,11),(2,12,25),(1,5,10),(1,5,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,10),(1,5,11),(3,16,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(1,5,11),(3,16,33)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,25),(1,6,12),(1,5,11)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,11),(1,6,12),(1,5,10),(3,16,33)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,12),(3,16,33),(2,11,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(3,16,33),(2,11,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(1,6,12),(2,11,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(1,6,11),(2,11,22)); lvl=5; h,r-ind=1,1
      [3,3]((2,12,27),(1,6,13),(1,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,8),(1,4,10),(1,5,10),(1,5,12)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((1,4,10),(1,4,9),(1,5,12),(1,5,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,12),(1,5,11),(2,9,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(1,5,11),(2,9,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(1,5,12),(2,9,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(1,4,10),(2,9,21)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,8),(1,4,9),(1,5,10),(1,5,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,10),(1,5,11),(2,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(1,5,11),(2,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(1,5,10),(2,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(1,4,8),(2,9,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(1,6,11),(1,5,10)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,16),(1,6,11)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,6,22),(0,1,0),(1,6,16)); lvl=1; h,r-ind=6,6; optimized-h
```

22.13 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,7,22)); lvl=0; h,r-ind=22,484
  [3,3]((1,1,2),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,7,22),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,7,11),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
    [5,3]((1,1,2),(1,4,5),(2,7,8),(2,8,13),(2,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,3),(2,5,7),(4,9,11),(2,2,3)); lvl=3; h,r-ind=1,1
        [3,3]((2,4,5),(4,9,11),(3,7,9)); lvl=4; h,r-ind=1,1
        [5,3]((9,19,26),(5,11,15),(2,4,5),(3,6,8),(3,7,9)); lvl=4; h,r-ind=1,1
          [4,3]((8,17,23),(7,15,20),(4,9,12),(5,11,15)); lvl=5; h,r-ind=1,1
            [3,3]((12,26,35),(4,9,12),(7,15,20)); lvl=6; h,r-ind=1,1
            [3,3]((8,17,23),(12,26,35),(7,15,20)); lvl=6; h,r-ind=1,1
            [3,3]((5,11,15),(12,26,35),(4,9,12)); lvl=6; h,r-ind=1,1
            [3,3]((8,17,23),(5,11,15),(12,26,35)); lvl=6; h,r-ind=1,1
          [3,3]((9,19,26),(8,17,23),(5,11,15)); lvl=5; h,r-ind=1,1
          [5,3]((7,15,20),(12,25,33),(2,4,5),(3,7,9),(4,9,12)); lvl=5; h,r-ind=1,1
            [4,3]((7,15,20),(15,32,42),(9,19,25),(13,28,37)); lvl=6; h,r-ind=1,1
              [3,3]((22,47,62),(15,32,42),(9,19,25)); lvl=7; h,r-ind=1,1
              [3,3]((7,15,20),(22,47,62),(9,19,25)); lvl=7; h,r-ind=1,1
              [3,3]((13,28,37),(7,15,20),(22,47,62)); lvl=7; h,r-ind=1,1
              [3,3]((13,28,37),(22,47,62),(15,32,42)); lvl=7; h,r-ind=1,1
            [3,3]((7,15,20),(12,25,33),(9,19,25)); lvl=6; h,r-ind=1,1
            [3,3]((2,4,5),(12,25,33),(9,19,25)); lvl=6; h,r-ind=1,1
            [4,3]((4,9,12),(6,13,17),(15,32,42),(13,28,37)); lvl=6; h,r-ind=1,1
              [3,3]((15,32,42),(6,13,17),(19,41,54)); lvl=7; h,r-ind=1,1
              [3,3]((4,9,12),(6,13,17),(19,41,54)); lvl=7; h,r-ind=1,1
              [3,3]((13,28,37),(4,9,12),(19,41,54)); lvl=7; h,r-ind=1,1
              [3,3]((13,28,37),(15,32,42),(19,41,54)); lvl=7; h,r-ind=1,1
            [3,3]((7,15,20),(4,9,12),(13,28,37)); lvl=6; h,r-ind=1,1
            [3,3]((4,9,12),(3,7,9),(6,13,17)); lvl=6; h,r-ind=1,1
            [3,3]((2,4,5),(6,13,17),(15,32,42)); lvl=6; h,r-ind=1,1
            [3,3]((3,7,9),(2,4,5),(6,13,17)); lvl=6; h,r-ind=1,1
            [3,3]((2,4,5),(15,32,42),(9,19,25)); lvl=6; h,r-ind=1,1
          [3,3]((3,6,8),(12,25,33),(2,4,5)); lvl=5; h,r-ind=1,1
          [4,3]((8,17,23),(7,15,20),(3,6,8),(12,25,33)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((10,21,28),(12,25,33),(7,15,20)); lvl=6; h,r-ind=1,1
            [3,3]((8,17,23),(10,21,28),(7,15,20)); lvl=6; h,r-ind=1,1
            [3,3]((10,21,28),(3,6,8),(12,25,33)); lvl=6; h,r-ind=1,1
            [3,3]((8,17,23),(10,21,28),(3,6,8)); lvl=6; h,r-ind=1,1
          [3,3]((9,19,26),(8,17,23),(3,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,7),(5,11,15),(3,7,9)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [4,3]((1,2,3),(9,19,26),(2,5,7),(5,11,15)); lvl=4; h,r-ind=1,1
          [3,3]((6,13,18),(5,11,15),(9,19,26)); lvl=5; h,r-ind=1,1
```

```
      [3,3]((1,2,3),(6,13,18),(9,19,26)); lvl=5; h,r-ind=1,1
      [3,3]((6,13,18),(2,5,7),(5,11,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(6,13,18),(2,5,7)); lvl=5; h,r-ind=1,1
    [3,3]((2,4,5),(4,7,9),(3,6,8)); lvl=4; h,r-ind=1,1
    [5,3]((2,2,3),(1,2,3),(9,19,26),(4,7,9),(3,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((9,19,26),(4,8,11),(3,6,8)); lvl=5; h,r-ind=1,1
      [4,3]((9,17,23),(10,19,26),(4,8,11),(3,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((10,19,26),(4,8,11),(13,25,34)); lvl=6; h,r-ind=1,1
        [3,3]((3,6,8),(4,8,11),(13,25,34)); lvl=6; h,r-ind=1,1
        [3,3]((9,17,23),(10,19,26),(13,25,34)); lvl=6; h,r-ind=1,1
        [3,3]((3,6,8),(9,17,23),(13,25,34)); lvl=6; h,r-ind=1,1
      [4,3]((4,7,9),(5,9,12),(9,17,23),(3,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((8,15,20),(5,9,12),(9,17,23)); lvl=6; h,r-ind=1,1
        [3,3]((3,6,8),(8,15,20),(9,17,23)); lvl=6; h,r-ind=1,1
        [3,3]((4,7,9),(8,15,20),(5,9,12)); lvl=6; h,r-ind=1,1
        [3,3]((3,6,8),(4,7,9),(8,15,20)); lvl=6; h,r-ind=1,1
      [3,3]((4,7,9),(5,9,12),(2,3,4)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,3),(7,13,18),(10,19,26),(4,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((7,13,18),(10,19,26),(11,21,29)); lvl=6; h,r-ind=1,1
        [3,3]((4,8,11),(10,19,26),(11,21,29)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,3),(4,8,11),(11,21,29)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,3),(7,13,18),(11,21,29)); lvl=6; h,r-ind=1,1
      [5,3]((5,9,12),(9,17,23),(2,3,4),(7,13,18),(10,19,26)); lvl=5; h,r-ind=1,1
        [3,3]((7,13,18),(10,19,26),(6,11,15)); lvl=6; h,r-ind=1,1
        [3,3]((9,17,23),(10,19,26),(6,11,15)); lvl=6; h,r-ind=1,1
        [3,3]((5,9,12),(9,17,23),(6,11,15)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,4),(7,13,18),(6,11,15)); lvl=6; h,r-ind=1,1
        [3,3]((5,9,12),(2,3,4),(6,11,15)); lvl=6; h,r-ind=1,1
      [4,3]((1,2,3),(2,2,3),(2,3,4),(7,13,18)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((3,5,7),(2,3,4),(2,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,3),(3,5,7),(2,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((7,13,18),(3,5,7),(2,3,4)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,3),(7,13,18),(3,5,7)); lvl=6; h,r-ind=1,1
      [3,3]((1,2,3),(9,19,26),(4,8,11)); lvl=5; h,r-ind=1,1
  [3,3]((1,1,2),(1,2,3),(2,2,3)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,3),(3,8,12),(4,11,16),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,12),(4,11,16),(5,13,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,7),(4,11,16),(5,13,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(3,8,12),(5,13,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,7),(1,2,3),(5,13,19)); lvl=4; h,r-ind=1,1
  [4,3]((1,1,2),(1,3,5),(1,2,3),(3,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,8),(3,8,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,8),(3,8,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,3),(2,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(1,3,5),(2,5,8)); lvl=4; h,r-ind=1,1
  [4,3]((2,7,8),(1,3,4),(2,5,7),(4,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,7),(3,7,9),(5,13,17)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((2,5,6),(3,8,10),(9,24,31),(3,7,9),(5,13,17)); lvl=4; h,r-ind=1,1
      [4,3]((7,18,23),(8,21,27),(5,13,17),(4,10,13)); lvl=5; h,r-ind=1,1
        [3,3]((8,21,27),(5,13,17),(12,31,40)); lvl=6; h,r-ind=1,1
        [3,3]((4,10,13),(5,13,17),(12,31,40)); lvl=6; h,r-ind=1,1
        [3,3]((7,18,23),(4,10,13),(12,31,40)); lvl=6; h,r-ind=1,1
        [3,3]((7,18,23),(8,21,27),(12,31,40)); lvl=6; h,r-ind=1,1
      [5,3]((2,5,6),(12,31,39),(7,18,23),(3,7,9),(4,10,13)); lvl=5; h,r-ind=1,1
        [4,3]((6,15,19),(15,38,48),(13,33,42),(4,10,13)); lvl=6; h,r-ind=1,1
          [3,3]((19,48,61),(13,33,42),(15,38,48)); lvl=7; h,r-ind=1,1
          [3,3]((6,15,19),(19,48,61),(15,38,48)); lvl=7; h,r-ind=1,1
          [3,3]((4,10,13),(6,15,19),(19,48,61)); lvl=7; h,r-ind=1,1
          [3,3]((4,10,13),(19,48,61),(13,33,42)); lvl=7; h,r-ind=1,1
        [3,3]((7,18,23),(13,33,42),(4,10,13)); lvl=6; h,r-ind=1,1
        [3,3]((3,7,9),(6,15,19),(4,10,13)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,6),(3,7,9),(6,15,19)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,6),(6,15,19),(15,38,48)); lvl=6; h,r-ind=1,1
        [4,3]((7,18,23),(9,23,29),(15,38,48),(13,33,42)); lvl=6; h,r-ind=1,1
          [3,3]((9,23,29),(15,38,48),(22,56,71)); lvl=7; h,r-ind=1,1
          [3,3]((13,33,42),(15,38,48),(22,56,71)); lvl=7; h,r-ind=1,1
          [3,3]((7,18,23),(9,23,29),(22,56,71)); lvl=7; h,r-ind=1,1
          [3,3]((13,33,42),(7,18,23),(22,56,71)); lvl=7; h,r-ind=1,1
        [3,3]((12,31,39),(7,18,23),(9,23,29)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,6),(12,31,39),(9,23,29)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,6),(9,23,29),(15,38,48)); lvl=6; h,r-ind=1,1
      [3,3]((8,21,27),(9,24,31),(5,13,17)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,10),(8,21,27),(9,24,31)); lvl=5; h,r-ind=1,1
      [4,3]((3,8,10),(12,31,39),(7,18,23),(8,21,27)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((10,26,33),(7,18,23),(12,31,39)); lvl=6; h,r-ind=1,1
        [3,3]((3,8,10),(10,26,33),(12,31,39)); lvl=6; h,r-ind=1,1
        [3,3]((8,21,27),(10,26,33),(7,18,23)); lvl=6; h,r-ind=1,1
        [3,3]((3,8,10),(8,21,27),(10,26,33)); lvl=6; h,r-ind=1,1
      [3,3]((2,5,6),(3,8,10),(12,31,39)); lvl=5; h,r-ind=1,1
    [3,3]((2,5,6),(4,9,11),(3,7,9)); lvl=4; h,r-ind=1,1
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```
      [3,3]((2,5,6),(4,11,13),(3,8,10)); lvl=4; h,r-ind=1,1
      [4,3]((9,24,31),(1,3,4),(2,5,7),(5,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(6,16,21),(2,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,17),(6,16,21),(2,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,17),(9,24,31),(6,16,21)); lvl=5; h,r-ind=1,1
        [3,3]((9,24,31),(1,3,4),(6,16,21)); lvl=5; h,r-ind=1,1
      [5,3]((2,7,8),(4,11,13),(3,8,10),(9,24,31),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(4,11,13),(5,14,17)); lvl=5; h,r-ind=1,1
        [4,3]((9,25,31),(3,8,10),(4,11,13),(5,14,17)); lvl=5; h,r-ind=1,1
          [3,3]((8,22,27),(4,11,13),(3,8,10)); lvl=6; h,r-ind=1,1
          [3,3]((9,25,31),(8,22,27),(3,8,10)); lvl=6; h,r-ind=1,1
          [3,3]((8,22,27),(5,14,17),(4,11,13)); lvl=6; h,r-ind=1,1
          [3,3]((9,25,31),(8,22,27),(5,14,17)); lvl=6; h,r-ind=1,1
        [4,3]((4,11,14),(10,28,35),(9,25,31),(3,8,10)); lvl=5; h,r-ind=1,1
          [3,3]((13,36,45),(9,25,31),(10,28,35)); lvl=6; h,r-ind=1,1
          [3,3]((4,11,14),(13,36,45),(10,28,35)); lvl=6; h,r-ind=1,1
          [3,3]((3,8,10),(4,11,14),(13,36,45)); lvl=6; h,r-ind=1,1
          [3,3]((3,8,10),(13,36,45),(9,25,31)); lvl=6; h,r-ind=1,1
        [3,3]((4,11,14),(3,8,10),(9,24,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(4,11,14),(9,24,31)); lvl=5; h,r-ind=1,1
        [5,3]((10,28,35),(7,20,25),(9,25,31),(2,6,7),(5,14,17)); lvl=5; h,r-ind=1,1
          [3,3]((6,17,21),(9,25,31),(5,14,17)); lvl=6; h,r-ind=1,1
          [3,3]((6,17,21),(2,6,7),(5,14,17)); lvl=6; h,r-ind=1,1
          [3,3]((7,20,25),(6,17,21),(2,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((10,28,35),(6,17,21),(9,25,31)); lvl=6; h,r-ind=1,1
          [3,3]((10,28,35),(7,20,25),(6,17,21)); lvl=6; h,r-ind=1,1
        [4,3]((2,7,8),(1,3,4),(7,20,25),(2,6,7)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((1,3,4),(7,20,25),(3,9,11)); lvl=6; h,r-ind=1,1
          [3,3]((2,6,7),(7,20,25),(3,9,11)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,8),(1,3,4),(3,9,11)); lvl=6; h,r-ind=1,1
          [3,3]((2,6,7),(2,7,8),(3,9,11)); lvl=6; h,r-ind=1,1
        [4,3]((1,3,4),(4,11,14),(10,28,35),(7,20,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,14),(10,28,35),(11,31,39)); lvl=6; h,r-ind=1,1
          [3,3]((7,20,25),(10,28,35),(11,31,39)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(4,11,14),(11,31,39)); lvl=6; h,r-ind=1,1
          [3,3]((7,20,25),(1,3,4),(11,31,39)); lvl=6; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,8),(1,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(4,11,16),(3,9,13),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,13),(4,11,16),(5,14,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,7),(4,11,16),(5,14,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(3,9,13),(5,14,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,7),(1,3,4),(5,14,20)); lvl=4; h,r-ind=1,1
    [5,3]((1,3,5),(1,4,6),(3,8,12),(4,11,16),(3,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,9),(4,11,16),(3,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,6,9),(3,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(3,9,13),(4,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(1,4,6),(3,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,6,9),(1,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(1,4,6),(2,8,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(1,4,6),(1,3,4),(3,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(1,3,4),(3,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,10),(3,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,10),(1,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,4,5),(2,7,10)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(1,4,4),(2,7,8),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,4),(1,2,2),(2,7,8),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,9,11),(2,5,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,3),(4,11,13),(1,2,2),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,13),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(3,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(4,11,13),(3,8,9)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,4),(1,3,3),(2,7,8),(4,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(4,13,14)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,4),(2,7,8),(2,6,7),(4,13,14)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,10,11),(2,7,8),(2,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((4,13,14),(3,10,11),(2,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,4),(4,13,14),(3,10,11)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,4),(3,10,11),(2,7,8)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,4),(1,3,3),(4,13,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(4,11,13),(2,6,7)); lvl=5; h,r-ind=1,1
    [4,3]((1,0,0),(2,2,3),(1,2,2),(4,9,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,1),(2,2,3),(4,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(2,3,4),(4,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((4,4,5),(1,1,1),(2,3,4)); lvl=5; h,r-ind=1,1
        [4,3]((1,0,0),(4,4,5),(2,2,3),(2,3,4)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,3,4),(4,4,5),(2,3,4)); lvl=6; h,r-ind=1,1
          [3,3]((2,2,3),(3,3,4),(2,3,4)); lvl=6; h,r-ind=1,1
          [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=6; h,r-ind=1,1
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          [3,3]((1,0,0),(3,3,4),(4,4,5)); lvl=6; h,r-ind=1,1
        [3,3]((1,0,0),(4,4,5),(1,1,1)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,2),(1,1,1),(2,4,5),(4,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(4,7,9),(3,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(4,7,9),(3,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(1,1,1),(3,5,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,2),(4,9,11),(2,4,5)); lvl=4; h,r-ind=1,1
[3,3]((0,1,0),(1,0,0),(1,4,4)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
[4,3]((1,7,11),(2,11,13),(1,4,5),(2,8,13)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc
  [4,3]((2,11,16),(1,4,6),(1,4,5),(1,5,6)); lvl=3; h,r-ind=1,3
    [3,3]((1,5,7),(1,4,6),(1,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(1,5,6),(1,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,16),(1,5,7),(1,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,16),(1,5,7),(1,4,6)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,8),(2,11,16),(1,5,6)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
  [3,3]((1,6,8),(2,11,13),(1,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,11),(1,6,8),(2,11,16)); lvl=3; h,r-ind=3,3; optimized-h
  [3,3]((1,5,8),(2,11,16),(1,4,6)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
  [3,3]((1,5,8),(2,8,13),(1,4,6)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,11),(1,5,8),(2,11,16)); lvl=3; h,r-ind=3,3; optimized-h
[4,3]((0,1,0),(2,11,11),(1,7,11),(2,11,13)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,8),(2,12,13),(2,11,12),(2,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,7),(2,11,12),(2,12,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(5,28,32),(2,11,12)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,13),(5,28,32),(2,11,12)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,7),(1,6,8),(2,11,13),(5,28,32)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,17,20),(2,11,13),(1,6,8)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(3,17,20),(1,6,8)); lvl=5; h,r-ind=1,1
      [3,3]((3,17,20),(5,28,32),(2,11,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(3,17,20),(5,28,32)); lvl=5; h,r-ind=1,1
  [4,3]((1,7,8),(1,6,8),(1,7,9),(2,12,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,7),(3,20,24),(1,7,9),(1,6,8)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,20,24),(2,13,16),(1,7,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(2,13,16),(1,7,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(3,20,24),(2,13,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(1,6,7),(2,13,16)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,8),(1,6,7),(3,20,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,8),(1,6,7),(2,12,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,8),(3,20,24),(1,7,9)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,7,8),(1,7,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,11),(1,6,8),(1,7,9)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,7,11),(1,7,9)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,11,11),(1,6,6),(2,12,13),(2,11,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,17,18),(1,6,6),(2,12,13)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,12),(3,17,18),(2,12,13)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,11),(2,11,12),(3,17,18)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,11),(3,17,18),(1,6,6)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(2,11,11),(1,6,6)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,7,8),(1,6,6),(2,12,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,6),(3,19,20),(2,12,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,8),(3,20,21),(3,19,20),(2,12,13)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,20,21),(2,13,14),(3,19,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,12,13),(2,13,14),(3,19,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,8),(2,12,13),(2,13,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,8),(3,20,21),(2,13,14)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,7),(3,20,21),(1,6,6),(3,19,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,21),(3,19,20),(4,26,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,6),(3,19,20),(4,26,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,7),(3,20,21),(4,26,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,6),(1,7,7),(4,26,27)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,7,7),(1,6,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,8),(0,1,0),(1,7,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,8),(1,7,7),(3,20,21)); lvl=4; h,r-ind=1,1
[5,3]((2,11,11),(1,4,4),(2,11,13),(1,4,5),(2,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,5),(2,8,9),(2,7,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,4),(2,8,9),(2,7,8)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,6),(4,19,21),(1,4,5),(2,8,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,10),(4,18,21),(1,4,5),(2,8,9)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,18,21),(3,13,15),(1,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,9),(3,13,15),(1,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,10),(2,8,9),(3,13,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,10),(4,18,21),(3,13,15)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,10),(4,18,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(4,19,21),(2,9,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(4,18,21),(1,4,5)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,4),(1,5,5),(4,19,21),(2,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,10),(1,5,5),(4,19,21)); lvl=4; h,r-ind=1,1
    [3,3]((4,18,19),(2,9,10),(1,5,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,4),(4,18,19),(1,5,5)); lvl=4; h,r-ind=1,1
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      [4,3]((1,4,4),(4,18,19),(2,9,10),(2,8,9)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,18,19),(2,9,10),(3,13,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,9),(2,9,10),(3,13,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(2,8,9),(3,13,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(4,18,19),(3,13,14)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,5),(1,5,6),(4,19,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,5),(2,11,12),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,13),(2,11,12),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,11),(1,5,5),(2,11,12)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,11,11),(1,4,4)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[5,3]((1,7,15),(1,7,11),(1,1,2),(1,4,12),(1,1,3)); lvl=1; h,r-ind=3,2
  [5,3]((2,5,15),(2,8,17),(1,4,9),(1,1,3),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,9),(1,3,7),(2,8,17)); lvl=3; h,r-ind=1,1
    [4,3]((4,11,24),(2,5,12),(1,3,7),(2,8,17)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,12),(5,14,32),(1,3,7),(9,26,59)); lvl=4; h,r-ind=1,1
        [3,3]((6,17,39),(5,14,32),(9,26,59)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(6,17,39),(9,26,59)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,12),(6,17,39),(5,14,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(2,5,12),(6,17,39)); lvl=5; h,r-ind=1,1
      [5,3]((2,8,17),(3,9,20),(4,13,28),(1,3,7),(9,26,59)); lvl=4; h,r-ind=1,1
        [4,3]((10,31,69),(9,28,62),(4,12,27),(3,9,20)); lvl=5; h,r-ind=1,1
          [3,3]((13,40,89),(3,9,20),(4,12,27)); lvl=6; h,r-ind=1,1
          [3,3]((10,31,69),(13,40,89),(4,12,27)); lvl=6; h,r-ind=1,1
          [3,3]((9,28,62),(13,40,89),(3,9,20)); lvl=6; h,r-ind=1,1
          [3,3]((10,31,69),(9,28,62),(13,40,89)); lvl=6; h,r-ind=1,1
        [3,3]((9,26,59),(4,12,27),(3,9,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(9,26,59),(4,12,27)); lvl=5; h,r-ind=1,1
        [4,3]((4,13,28),(5,16,35),(9,28,62),(3,9,20)); lvl=5; h,r-ind=1,1
          [3,3]((5,16,35),(8,25,55),(9,28,62)); lvl=6; h,r-ind=1,1
          [3,3]((3,9,20),(8,25,55),(9,28,62)); lvl=6; h,r-ind=1,1
          [3,3]((4,13,28),(5,16,35),(8,25,55)); lvl=6; h,r-ind=1,1
          [3,3]((3,9,20),(4,13,28),(8,25,55)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,15),(4,13,28),(5,16,35)); lvl=5; h,r-ind=1,1
        [5,3]((2,7,15),(7,22,49),(10,31,69),(5,16,35),(9,28,62)); lvl=5; h,r-ind=1,1
          [3,3]((10,31,69),(6,19,42),(9,28,62)); lvl=6; h,r-ind=1,1
          [3,3]((5,16,35),(6,19,42),(9,28,62)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,15),(5,16,35),(6,19,42)); lvl=6; h,r-ind=1,1
          [3,3]((7,22,49),(10,31,69),(6,19,42)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,15),(7,22,49),(6,19,42)); lvl=6; h,r-ind=1,1
        [4,3]((2,8,17),(1,3,7),(2,7,15),(7,22,49)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((3,10,22),(1,3,7),(7,22,49)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,15),(3,10,22),(7,22,49)); lvl=6; h,r-ind=1,1
          [3,3]((2,8,17),(3,10,22),(1,3,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,15),(2,8,17),(3,10,22)); lvl=6; h,r-ind=1,1
        [4,3]((1,3,7),(7,22,49),(10,31,69),(4,12,27)); lvl=5; h,r-ind=1,1
          [3,3]((7,22,49),(10,31,69),(11,34,76)); lvl=6; h,r-ind=1,1
          [3,3]((4,12,27),(10,31,69),(11,34,76)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,7),(7,22,49),(11,34,76)); lvl=6; h,r-ind=1,1
          [3,3]((4,12,27),(1,3,7),(11,34,76)); lvl=6; h,r-ind=1,1
      [3,3]((2,6,13),(3,9,20),(4,13,28)); lvl=4; h,r-ind=1,1
      [5,3]((2,6,13),(3,9,20),(3,8,18),(5,14,32),(9,26,59)); lvl=4; h,r-ind=1,1
        [4,3]((3,9,20),(8,23,52),(7,20,45),(12,35,78)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((8,23,52),(10,29,65),(7,20,45)); lvl=6; h,r-ind=1,1
          [3,3]((12,35,78),(10,29,65),(7,20,45)); lvl=6; h,r-ind=1,1
          [3,3]((3,9,20),(8,23,52),(10,29,65)); lvl=6; h,r-ind=1,1
          [3,3]((12,35,78),(3,9,20),(10,29,65)); lvl=6; h,r-ind=1,1
        [5,3]((2,6,13),(3,8,18),(4,11,25),(7,20,45),(12,35,78)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,25),(3,8,18),(6,17,38)); lvl=6; h,r-ind=1,1
          [3,3]((2,6,13),(3,8,18),(6,17,38)); lvl=6; h,r-ind=1,1
          [4,3]((4,11,25),(15,43,96),(13,37,83),(6,17,38)); lvl=6; h,r-ind=1,1
            [3,3]((19,54,121),(13,37,83),(15,43,96)); lvl=7; h,r-ind=1,1
            [3,3]((6,17,38),(19,54,121),(15,43,96)); lvl=7; h,r-ind=1,1
            [3,3]((4,11,25),(6,17,38),(19,54,121)); lvl=7; h,r-ind=1,1
            [3,3]((4,11,25),(19,54,121),(13,37,83)); lvl=7; h,r-ind=1,1
          [3,3]((2,6,13),(15,43,96),(6,17,38)); lvl=6; h,r-ind=1,1
          [4,3]((15,43,96),(13,37,83),(7,20,45),(9,26,58)); lvl=6; h,r-ind=1,1
            [3,3]((22,63,141),(7,20,45),(13,37,83)); lvl=7; h,r-ind=1,1
            [3,3]((15,43,96),(22,63,141),(13,37,83)); lvl=7; h,r-ind=1,1
            [3,3]((9,26,58),(15,43,96),(22,63,141)); lvl=7; h,r-ind=1,1
            [3,3]((9,26,58),(22,63,141),(7,20,45)); lvl=7; h,r-ind=1,1
          [3,3]((12,35,78),(7,20,45),(9,26,58)); lvl=6; h,r-ind=1,1
          [3,3]((2,6,13),(12,35,78),(9,26,58)); lvl=6; h,r-ind=1,1
          [3,3]((2,6,13),(15,43,96),(9,26,58)); lvl=6; h,r-ind=1,1
          [3,3]((4,11,25),(13,37,83),(7,20,45)); lvl=6; h,r-ind=1,1
        [3,3]((2,6,13),(3,9,20),(12,35,78)); lvl=5; h,r-ind=1,1
        [3,3]((3,9,20),(9,26,59),(8,23,52)); lvl=5; h,r-ind=1,1
        [3,3]((5,14,32),(9,26,59),(8,23,52)); lvl=5; h,r-ind=1,1
        [4,3]((5,14,32),(4,11,25),(8,23,52),(7,20,45)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,25),(7,20,45),(12,34,77)); lvl=6; h,r-ind=1,1
          [3,3]((8,23,52),(7,20,45),(12,34,77)); lvl=6; h,r-ind=1,1
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      [3,3]((5,14,32),(4,11,25),(12,34,77)); lvl=6; h,r-ind=1,1
      [3,3]((8,23,52),(5,14,32),(12,34,77)); lvl=6; h,r-ind=1,1
  [3,3]((4,11,24),(2,6,13),(3,8,18)); lvl=4; h,r-ind=1,1
  [3,3]((3,8,18),(2,5,12),(5,14,32)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[4,3]((2,3,7),(1,2,5),(4,11,24),(2,5,12)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,5),(2,5,12),(5,12,28),(9,21,49)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,12),(6,14,33),(5,12,28)); lvl=5; h,r-ind=1,1
    [3,3]((9,21,49),(6,14,33),(5,12,28)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,5),(9,21,49),(6,14,33)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,5),(2,5,12),(6,14,33)); lvl=5; h,r-ind=1,1
  [5,3]((2,5,11),(3,7,16),(3,8,18),(5,12,28),(9,21,49)); lvl=4; h,r-ind=1,1
    [3,3]((5,12,28),(9,21,49),(8,19,44)); lvl=5; h,r-ind=1,1
    [3,3]((3,7,16),(9,21,49),(8,19,44)); lvl=5; h,r-ind=1,1
    [3,3]((3,7,16),(2,5,11),(12,29,66)); lvl=5; h,r-ind=1,1
    [4,3]((4,10,23),(7,17,39),(5,12,28),(8,19,44)); lvl=5; h,r-ind=1,1
      [3,3]((8,19,44),(7,17,39),(12,29,67)); lvl=6; h,r-ind=1,1
      [3,3]((4,10,23),(7,17,39),(12,29,67)); lvl=6; h,r-ind=1,1
      [3,3]((5,12,28),(4,10,23),(12,29,67)); lvl=6; h,r-ind=1,1
      [3,3]((5,12,28),(8,19,44),(12,29,67)); lvl=6; h,r-ind=1,1
    [4,3]((3,7,16),(12,29,66),(7,17,39),(8,19,44)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((10,24,55),(7,17,39),(12,29,66)); lvl=6; h,r-ind=1,1
      [3,3]((3,7,16),(10,24,55),(12,29,66)); lvl=6; h,r-ind=1,1
      [3,3]((10,24,55),(8,19,44),(7,17,39)); lvl=6; h,r-ind=1,1
      [3,3]((3,7,16),(10,24,55),(8,19,44)); lvl=6; h,r-ind=1,1
    [5,3]((2,5,11),(12,29,66),(3,8,18),(4,10,23),(7,17,39)); lvl=5; h,r-ind=1,1
      [3,3]((13,32,73),(4,10,23),(7,17,39)); lvl=6; h,r-ind=1,1
      [4,3]((9,22,50),(15,37,84),(13,32,73),(7,17,39)); lvl=6; h,r-ind=1,1
        [3,3]((15,37,84),(13,32,73),(22,54,123)); lvl=7; h,r-ind=1,1
        [3,3]((7,17,39),(13,32,73),(22,54,123)); lvl=7; h,r-ind=1,1
        [3,3]((9,22,50),(7,17,39),(22,54,123)); lvl=7; h,r-ind=1,1
        [3,3]((9,22,50),(15,37,84),(22,54,123)); lvl=7; h,r-ind=1,1
      [3,3]((9,22,50),(12,29,66),(7,17,39)); lvl=6; h,r-ind=1,1
      [3,3]((2,5,11),(9,22,50),(12,29,66)); lvl=6; h,r-ind=1,1
      [3,3]((2,5,11),(9,22,50),(15,37,84)); lvl=6; h,r-ind=1,1
      [4,3]((6,15,34),(15,37,84),(13,32,73),(4,10,23)); lvl=6; h,r-ind=1,1
        [3,3]((19,47,107),(13,32,73),(15,37,84)); lvl=7; h,r-ind=1,1
        [3,3]((6,15,34),(19,47,107),(15,37,84)); lvl=7; h,r-ind=1,1
        [3,3]((4,10,23),(6,15,34),(19,47,107)); lvl=7; h,r-ind=1,1
        [3,3]((4,10,23),(19,47,107),(13,32,73)); lvl=7; h,r-ind=1,1
      [3,3]((3,8,18),(6,15,34),(4,10,23)); lvl=6; h,r-ind=1,1
      [3,3]((2,5,11),(3,8,18),(6,15,34)); lvl=6; h,r-ind=1,1
      [3,3]((2,5,11),(6,15,34),(15,37,84)); lvl=6; h,r-ind=1,1
  [3,3]((4,11,24),(2,5,11),(3,8,18)); lvl=4; h,r-ind=1,1
  [5,3]((2,3,7),(4,9,20),(3,7,16),(1,2,5),(9,21,49)); lvl=4; h,r-ind=1,1
    [3,3]((4,9,21),(3,7,16),(9,21,49)); lvl=5; h,r-ind=1,1
    [3,3]((4,9,21),(1,2,5),(9,21,49)); lvl=5; h,r-ind=1,1
    [4,3]((7,15,35),(10,22,51),(4,9,21),(1,2,5)); lvl=5; h,r-ind=1,1
      [3,3]((4,9,21),(10,22,51),(11,24,56)); lvl=6; h,r-ind=1,1
      [3,3]((7,15,35),(10,22,51),(11,24,56)); lvl=6; h,r-ind=1,1
      [3,3]((1,2,5),(7,15,35),(11,24,56)); lvl=6; h,r-ind=1,1
      [3,3]((1,2,5),(4,9,21),(11,24,56)); lvl=6; h,r-ind=1,1
    [4,3]((2,3,7),(7,15,35),(2,4,9),(1,2,5)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((2,4,9),(7,15,35),(3,6,14)); lvl=6; h,r-ind=1,1
      [3,3]((1,2,5),(7,15,35),(3,6,14)); lvl=6; h,r-ind=1,1
      [3,3]((2,3,7),(1,2,5),(3,6,14)); lvl=6; h,r-ind=1,1
      [3,3]((2,3,7),(2,4,9),(3,6,14)); lvl=6; h,r-ind=1,1
    [4,3]((9,20,46),(10,22,51),(4,9,21),(3,7,16)); lvl=5; h,r-ind=1,1
      [3,3]((13,29,67),(10,22,51),(4,9,21)); lvl=6; h,r-ind=1,1
      [3,3]((3,7,16),(13,29,67),(4,9,21)); lvl=6; h,r-ind=1,1
      [3,3]((9,20,46),(3,7,16),(13,29,67)); lvl=6; h,r-ind=1,1
      [3,3]((9,20,46),(13,29,67),(10,22,51)); lvl=6; h,r-ind=1,1
    [4,3]((4,9,20),(5,11,25),(9,20,46),(3,7,16)); lvl=5; h,r-ind=1,1
      [3,3]((8,18,41),(9,20,46),(5,11,25)); lvl=6; h,r-ind=1,1
      [3,3]((4,9,20),(8,18,41),(5,11,25)); lvl=6; h,r-ind=1,1
      [3,3]((3,7,16),(8,18,41),(9,20,46)); lvl=6; h,r-ind=1,1
      [3,3]((4,9,20),(3,7,16),(8,18,41)); lvl=6; h,r-ind=1,1
    [5,3]((7,15,35),(5,11,25),(2,4,9),(9,20,46),(10,22,51)); lvl=5; h,r-ind=1,1
      [3,3]((6,13,30),(2,4,9),(7,15,35)); lvl=6; h,r-ind=1,1
      [3,3]((6,13,30),(10,22,51),(7,15,35)); lvl=6; h,r-ind=1,1
      [3,3]((6,13,30),(9,20,46),(10,22,51)); lvl=6; h,r-ind=1,1
      [3,3]((5,11,25),(6,13,30),(2,4,9)); lvl=6; h,r-ind=1,1
      [3,3]((5,11,25),(6,13,30),(9,20,46)); lvl=6; h,r-ind=1,1
    [3,3]((4,9,20),(5,11,25),(2,4,9)); lvl=5; h,r-ind=1,1
  [3,3]((2,5,11),(4,9,20),(3,7,16)); lvl=4; h,r-ind=1,1
  [3,3]((3,8,18),(2,5,12),(5,12,28)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[4,3]((3,7,18),(4,10,25),(1,2,5),(2,5,12)); lvl=3; h,r-ind=1,1
  [3,3]((5,12,30),(2,5,12),(4,10,25)); lvl=4; h,r-ind=1,1
  [3,3]((3,7,18),(5,12,30),(4,10,25)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,5),(3,7,18),(5,12,30)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,5),(5,12,30),(2,5,12)); lvl=4; h,r-ind=1,1
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    [3,3]((1,1,3),(2,3,7),(1,2,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,6),(3,7,18),(1,1,3),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,11),(3,7,18),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(2,4,11),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(1,1,3),(2,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,4,11),(3,7,18)); lvl=4; h,r-ind=1,1
    [4,3]((3,8,20),(4,10,25),(2,5,12),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,25),(2,5,12),(5,13,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,12),(5,13,32)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,20),(1,3,7),(5,13,32)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,20),(4,10,25),(5,13,32)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,8),(3,8,20),(1,4,9),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,20),(2,6,15),(1,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(2,6,15),(1,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(1,4,9),(2,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(3,8,20),(2,6,15)); lvl=4; h,r-ind=1,1
    [5,3]((1,3,8),(3,8,20),(1,2,6),(3,7,18),(4,10,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,18),(2,5,13),(1,2,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(2,5,13),(1,2,6)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,25),(3,7,18),(2,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,20),(4,10,25),(2,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(3,8,20),(2,5,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,8),(2,5,15),(1,2,6)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,2),(1,1,3),(2,3,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,2),(1,4,8),(2,8,17),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,8),(2,5,10),(2,8,17),(4,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,13),(3,8,17),(4,11,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(1,3,6),(3,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(1,3,6),(3,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(4,13,28),(1,3,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,8),(4,13,28),(2,8,17),(1,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(2,7,15),(4,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,29),(1,3,6),(2,7,15)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,8),(4,14,29),(2,8,17),(2,7,15)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,11,23),(4,14,29),(2,7,15)); lvl=6; h,r-ind=1,1
          [3,3]((2,8,17),(3,11,23),(2,7,15)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,8),(2,8,17),(3,11,23)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,8),(3,11,23),(4,14,29)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,8),(4,14,29),(1,3,6)); lvl=5; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,7),(2,5,10),(4,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,11),(4,9,20)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,2),(1,2,4),(2,3,7),(4,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,9),(4,9,20),(1,2,4)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,9),(4,7,15),(1,2,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(4,7,15),(1,2,4)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,2),(2,3,7),(2,4,9),(4,7,15)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,11),(2,3,7),(2,4,9)); lvl=6; h,r-ind=1,1
          [3,3]((4,7,15),(3,5,11),(2,4,9)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,2),(4,7,15),(3,5,11)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,2),(3,5,11),(2,3,7)); lvl=6; h,r-ind=1,1
      [3,3]((1,2,4),(3,8,17),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,24),(3,8,17),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,10),(3,8,17)); lvl=4; h,r-ind=1,1
[3,3]((1,1,2),(1,4,8),(2,8,13)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,7,11),(1,4,8),(2,8,13)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
[4,3]((1,7,11),(1,7,13),(1,4,8),(2,8,17)); lvl=2; h,r-ind=3,1
  [4,3]((2,10,19),(1,5,10),(1,4,8),(2,8,17)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((2,9,18),(2,8,17),(1,4,8)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,19),(2,9,18),(1,4,8)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,18),(1,5,10),(2,8,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,19),(2,9,18),(1,5,10)); lvl=4; h,r-ind=1,1
  [4,3]((2,11,20),(2,10,19),(1,5,10),(1,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,16,30),(1,5,10),(2,10,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,20),(3,16,30),(2,10,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,11),(2,11,20),(3,16,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,11),(3,16,30),(1,5,10)); lvl=4; h,r-ind=1,1
  [5,3]((1,7,11),(1,7,12),(2,11,19),(2,11,20),(1,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,20),(1,6,11),(4,23,41)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,10),(3,19,33),(1,6,11),(4,23,41)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,21),(3,19,33),(1,6,11)); lvl=5; h,r-ind=1,1
      [3,3]((4,23,41),(2,12,21),(1,6,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(4,23,41),(2,12,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(2,12,21),(3,19,33)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,12),(3,19,33),(1,6,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,10),(1,7,11),(1,7,12),(3,19,33)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,7,11),(2,13,22),(1,7,12)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,33),(2,13,22),(1,7,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(1,7,11),(2,13,22)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,33),(1,6,10),(2,13,22)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,10),(2,11,19),(2,11,20),(4,23,41)); lvl=4; h,r-ind=1,2; alert-r-inc
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          [3,3]((3,17,30),(2,11,20),(2,11,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,10),(3,17,30),(2,11,19)); lvl=5; h,r-ind=1,1
          [3,3]((3,17,30),(4,23,41),(2,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,10),(3,17,30),(4,23,41)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(1,7,13),(1,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,12),(1,7,13),(1,6,11)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,19),(2,11,20),(2,10,19),(1,4,8)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,20),(2,10,19),(5,26,48)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,9),(1,4,8),(2,10,19),(5,26,48)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,4,8),(2,10,19),(3,15,28)); lvl=5; h,r-ind=1,1
          [3,3]((5,26,48),(2,10,19),(3,15,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(5,26,48),(3,15,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(1,4,8),(3,15,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(2,11,20),(5,26,48)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,19),(1,5,9),(2,11,20)); lvl=4; h,r-ind=1,1
    [5,3]((1,7,15),(1,7,13),(2,11,27),(2,8,17),(1,4,9)); lvl=2; h,r-ind=3,1
      [4,3]((2,8,17),(2,9,19),(3,14,30),(1,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((2,9,19),(3,14,30),(3,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(3,14,30),(3,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,17),(2,9,19),(3,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(2,8,17),(3,13,28)); lvl=4; h,r-ind=1,1
      [6,3]((3,16,34),(4,22,47),(1,5,12),(2,11,24),(3,14,30),(1,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,11),(2,11,24),(1,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,11),(1,4,9),(1,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,11),(3,14,30),(1,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,22,47),(1,5,11),(2,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,34),(4,22,47),(1,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,34),(3,15,32),(1,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,15,32),(1,5,11),(3,14,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,14),(1,5,12),(2,11,24)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((1,6,14),(2,11,27),(1,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,34),(2,11,23),(4,22,47)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,14),(1,7,13),(2,11,23),(4,22,47)); lvl=3; h,r-ind=3,1
        [4,3]((4,22,47),(5,29,61),(2,11,23),(1,6,12)); lvl=4; h,r-ind=1,1
          [3,3]((1,6,12),(3,17,36),(5,29,61)); lvl=5; h,r-ind=1,1
          [3,3]((6,34,71),(1,6,12),(3,17,36)); lvl=5; h,r-ind=1,1
          [4,3]((4,22,47),(2,11,23),(6,34,71),(3,17,36)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,11,23),(5,28,59),(6,34,71)); lvl=6; h,r-ind=1,1
            [3,3]((3,17,36),(5,28,59),(6,34,71)); lvl=6; h,r-ind=1,1
            [3,3]((4,22,47),(3,17,36),(5,28,59)); lvl=6; h,r-ind=1,1
            [3,3]((4,22,47),(2,11,23),(5,28,59)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,23),(6,34,71),(1,6,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,14),(5,29,61),(1,6,12)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
        [3,3]((1,7,14),(1,7,13),(1,6,12)); lvl=4; h,r-ind=1,1
      [5,3]((1,7,14),(1,7,15),(1,6,14),(4,22,47),(2,11,24)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,13),(4,22,47),(2,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,14),(1,6,13),(2,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,15),(1,6,14),(1,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,13),(5,29,61),(4,22,47)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
        [3,3]((1,7,14),(1,6,13),(5,29,61)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
        [3,3]((1,7,14),(1,7,15),(1,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(2,8,17),(2,9,19)); lvl=3; h,r-ind=1,1
      [5,3]((1,5,10),(3,16,34),(2,11,23),(2,9,19),(3,14,30)); lvl=3; h,r-ind=1,1
        [3,3]((2,10,21),(3,15,32),(3,16,34)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,23),(2,10,21),(3,16,34)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(2,11,23),(2,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,30),(2,10,21),(3,15,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,19),(3,14,30),(2,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(2,9,19),(2,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,13),(1,5,10),(2,11,23)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((1,4,12),(2,5,15),(1,4,9)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,4,12),(2,11,27),(1,4,9)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,7,22),(1,4,12),(1,1,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,7,22),(1,7,15),(1,4,12)); lvl=1; h,r-ind=21,21; optimized-h
  [3,3]((0,1,0),(1,7,15),(1,7,11)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,7,22),(0,1,0),(1,7,15)); lvl=1; h,r-ind=7,7; optimized-h
```

22.14 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,8,22)); lvl=0; h,r-ind=22,242
  [4,3]((1,4,10),(1,6,16),(1,0,0),(1,4,11)); lvl=1; h,r-ind=2,2
    [3,3]((1,3,8),(1,6,16),(1,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,3,8),(1,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,13),(1,3,8),(1,6,16)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,10),(1,5,13),(1,3,8),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,13),(1,3,8),(2,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,3,8),(2,7,18)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,4,10),(1,5,13),(2,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,4,10),(2,7,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,3,8),(1,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,8,22),(1,6,16),(1,4,11)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,6,9),(1,6,12),(1,4,10),(1,0,0)); lvl=1; h,r-ind=6,6
    [5,3]((1,6,12),(2,12,21),(1,5,11),(1,4,8),(2,8,15)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,11),(3,15,29),(1,5,9)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((2,9,17),(3,14,27),(3,15,29),(1,5,9)); lvl=3; h,r-ind=1,1
        [4,3]((7,33,63),(2,10,19),(3,14,27),(3,15,29)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,10,19),(3,15,29),(5,24,46)); lvl=5; h,r-ind=1,1
          [3,3]((3,14,27),(3,15,29),(5,24,46)); lvl=5; h,r-ind=1,1
          [3,3]((7,33,63),(2,10,19),(5,24,46)); lvl=5; h,r-ind=1,1
          [3,3]((3,14,27),(7,33,63),(5,24,46)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,17),(7,33,63),(3,14,27)); lvl=4; h,r-ind=1,1
        [4,3]((2,9,17),(7,33,63),(1,5,9),(2,10,19)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,19,36),(1,5,9),(2,10,19)); lvl=5; h,r-ind=1,1
          [3,3]((7,33,63),(4,19,36),(2,10,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,17),(7,33,63),(4,19,36)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,17),(4,19,36),(1,5,9)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,15),(2,9,17),(1,5,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,8),(2,8,15),(2,9,17),(3,14,27)); lvl=3; h,r-ind=1,1
        [3,3]((3,13,25),(2,8,15),(2,9,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,27),(3,13,25),(2,9,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(3,14,27),(3,13,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(3,13,25),(2,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(2,12,21),(1,5,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,12),(1,6,11),(1,5,10),(3,15,29)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,10),(3,15,29),(2,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(3,15,29),(2,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(1,6,11),(2,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(1,5,10),(2,11,21)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,8),(3,14,27),(1,5,10),(3,15,29)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,10),(3,15,29),(4,19,37)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,27),(3,15,29),(4,19,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(1,5,10),(4,19,37)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,27),(1,4,8),(4,19,37)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(1,5,11),(1,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,11),(1,5,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,13),(1,3,6),(1,4,8),(2,8,15)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,21),(1,4,8),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,13),(3,11,21),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,15),(3,11,21),(1,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,13),(2,8,15),(3,11,21)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,13),(1,3,6),(1,2,4),(2,6,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,9,17),(1,2,4),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,13),(3,9,17),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,11),(3,9,17),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,13),(2,6,11),(3,9,17)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,9),(1,0,0),(1,2,4),(2,6,11)); lvl=2; h,r-ind=2,1
      [3,3]((2,4,7),(1,1,2),(1,2,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,5),(2,4,7),(2,6,11),(1,2,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,9),(2,4,7),(1,2,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,11),(2,5,9),(1,2,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,6,11),(2,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,5,9),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,5),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,6,9),(1,3,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(2,4,7),(1,0,0),(1,1,2)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,5),(2,4,7),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(2,3,5),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,0,0),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,3,5),(2,4,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,9),(2,6,9),(2,7,13),(2,6,11)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,7),(2,7,13),(1,3,5),(2,6,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,5),(2,6,11),(3,10,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,13),(2,6,11),(3,10,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,7,13),(3,10,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(1,3,5),(3,10,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,7),(2,9,15),(2,8,13),(1,3,5)); lvl=3; h,r-ind=1,1
        [3,3]((2,9,15),(2,8,13),(3,12,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,8,13),(3,12,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,9,15),(3,12,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(1,4,7),(3,12,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,8,13),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,6,9),(1,3,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,6),(1,6,9),(2,9,15),(2,8,13)); lvl=3; h,r-ind=1,1
        [4,3]((2,8,13),(4,17,27),(1,5,8),(2,9,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,13,21),(1,5,8),(4,17,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,13),(3,13,21),(4,17,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,15),(3,13,21),(1,5,8)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((2,8,13),(2,9,15),(3,13,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(2,8,13),(4,17,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(4,17,27),(1,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(1,6,9),(1,5,8)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,9),(2,7,13),(2,12,21),(2,8,15)); lvl=2; h,r-ind=1,1
      [4,3]((2,7,13),(1,4,7),(1,5,9),(2,8,15)); lvl=3; h,r-ind=1,1
        [3,3]((3,12,22),(1,5,9),(1,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,13),(3,12,22),(1,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,15),(3,12,22),(1,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,13),(2,8,15),(3,12,22)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,7),(2,9,15),(2,10,17),(1,5,9)); lvl=3; h,r-ind=1,1
        [3,3]((2,9,15),(2,10,17),(3,14,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(2,10,17),(3,14,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,9,15),(3,14,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(1,4,7),(3,14,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(2,10,17),(1,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,21),(1,6,10),(1,5,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,10),(1,6,9),(2,9,15),(2,10,17)); lvl=3; h,r-ind=1,1
        [4,3]((2,10,17),(4,21,35),(2,9,15),(1,5,8)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,21,35),(3,15,25),(1,5,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,15),(3,15,25),(1,5,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,17),(4,21,35),(3,15,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,15),(2,10,17),(3,15,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(4,21,35),(1,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(1,6,9),(1,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(2,10,17),(4,21,35)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,6),(1,4,10),(1,5,11),(1,4,8)); lvl=2; h,r-ind=1,2
      [3,3]((1,4,10),(1,4,9),(1,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(1,4,9),(1,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,8),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,10),(1,4,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,6),(1,2,4),(1,4,10),(1,2,5)); lvl=2; h,r-ind=1,2
      [3,3]((1,3,7),(1,2,4),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,10),(1,3,7),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,3,7),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,10),(1,3,6),(1,3,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,4),(1,2,5)); lvl=2; h,r-ind=2,2; optimized-h
[4,3]((0,1,0),(1,6,9),(1,8,11),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((1,7,10),(2,6,9),(2,11,11),(1,3,3),(1,6,9)); lvl=2; h,r-ind=3,1; alert-h-inc
    [5,3]((1,6,9),(2,9,12),(2,10,13),(1,4,6),(2,12,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,12,17),(2,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(2,10,13),(2,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,12),(1,5,7),(2,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(1,6,9),(2,12,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,5,7),(1,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,12),(1,4,6),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(1,6,9),(2,12,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,10),(2,11,14),(2,10,13),(2,12,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,15),(2,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,14),(2,10,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,10),(2,12,17),(1,6,8),(2,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,17),(2,11,15),(3,18,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(2,11,15),(3,18,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(1,6,8),(3,18,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(2,12,17),(3,18,25)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,10),(1,6,7),(2,11,14)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((2,11,14),(2,10,13),(1,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,7),(1,5,5),(2,11,14),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(1,5,6),(1,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,13),(1,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,13),(2,11,14),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,13),(2,11,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(2,11,11),(1,5,5)); lvl=3; h,r-ind=1,1
    [6,3]((1,3,3),(2,9,9),(1,3,4),(2,9,12),(2,10,13),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,12),(2,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,11),(1,4,5),(2,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,11),(1,5,6),(2,10,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,4),(2,9,9),(2,9,11),(1,5,6)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,9),(2,9,10),(1,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,11),(2,9,10),(1,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(2,9,9),(2,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,11),(1,4,4),(2,9,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,4),(2,9,11),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,4,4),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,5),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,3,4),(1,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,5),(2,9,9),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,9,12),(1,4,6)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,3,4),(2,6,9),(1,4,6)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,6,9),(1,3,3)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
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[3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[4,3]((0,1,0),(1,8,11),(1,7,10),(2,11,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,7,8),(1,6,7),(1,7,10)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,15,17),(2,15,20),(1,7,8),(1,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,15,20),(4,30,37),(1,7,10),(1,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,10),(4,29,38),(1,7,9)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,19),(4,29,38),(1,7,9)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,19),(4,30,37),(1,7,9)); lvl=5; h,r-ind=1,1
      [4,3]((2,15,20),(2,15,19),(1,7,10),(4,29,38)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,22,29),(2,15,19),(4,29,38)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,29),(1,7,10),(4,29,38)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,20),(3,22,29),(1,7,10)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,20),(3,22,29),(2,15,19)); lvl=6; h,r-ind=1,1
    [4,3]((2,15,17),(4,30,37),(1,7,8),(1,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((4,29,35),(1,7,9),(1,7,8)); lvl=5; h,r-ind=1,1
      [4,3]((2,15,17),(2,15,18),(4,29,35),(1,7,8)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,22,26),(4,29,35),(2,15,18)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,17),(3,22,26),(2,15,18)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,8),(2,15,17),(3,22,26)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,8),(3,22,26),(4,29,35)); lvl=6; h,r-ind=1,1
      [3,3]((2,15,18),(4,29,35),(1,7,9)); lvl=5; h,r-ind=1,1
      [3,3]((4,30,37),(2,15,18),(1,7,9)); lvl=5; h,r-ind=1,1
  [3,3]((1,8,11),(2,15,20),(1,7,10)); lvl=3; h,r-ind=1,1
  [5,3]((0,1,0),(1,8,11),(1,8,8),(2,15,17),(2,15,20)); lvl=3; h,r-ind=1,1
    [4,3]((2,15,20),(4,30,37),(1,8,10),(2,16,19)); lvl=4; h,r-ind=1,1
      [4,3]((7,54,67),(4,31,38),(1,8,10),(2,16,19)); lvl=5; h,r-ind=1,1
        [3,3]((5,39,48),(2,16,19),(1,8,10)); lvl=6; h,r-ind=1,1
        [3,3]((7,54,67),(5,39,48),(1,8,10)); lvl=6; h,r-ind=1,1
        [3,3]((4,31,38),(5,39,48),(2,16,19)); lvl=6; h,r-ind=1,1
        [3,3]((4,31,38),(7,54,67),(5,39,48)); lvl=6; h,r-ind=1,1
      [3,3]((3,23,28),(4,31,38),(2,16,19)); lvl=5; h,r-ind=1,1
      [4,3]((2,15,19),(7,54,67),(3,23,28),(4,31,38)); lvl=5; h,r-ind=1,1
        [3,3]((7,54,67),(6,46,57),(4,31,38)); lvl=6; h,r-ind=1,1
        [3,3]((3,23,28),(6,46,57),(4,31,38)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,19),(7,54,67),(6,46,57)); lvl=6; h,r-ind=1,1
        [3,3]((3,23,28),(2,15,19),(6,46,57)); lvl=6; h,r-ind=1,1
      [3,3]((2,15,19),(3,23,28),(4,30,37)); lvl=5; h,r-ind=1,1
      [4,3]((2,15,20),(2,15,19),(7,54,67),(1,8,10)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((2,15,19),(7,54,67),(3,23,29)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,10),(7,54,67),(3,23,29)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,20),(2,15,19),(3,23,29)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,10),(2,15,20),(3,23,29)); lvl=6; h,r-ind=1,1
    [3,3]((0,1,0),(1,8,10),(2,16,19)); lvl=4; h,r-ind=1,1
    [4,3]((2,15,17),(1,8,9),(4,30,37),(2,16,19)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,9),(2,16,19),(7,54,64),(4,31,37)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,19),(4,31,37),(5,39,46)); lvl=6; h,r-ind=1,1
        [3,3]((7,54,64),(4,31,37),(5,39,46)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,9),(7,54,64),(5,39,46)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,9),(2,16,19),(5,39,46)); lvl=6; h,r-ind=1,1
      [4,3]((2,15,18),(3,23,28),(7,54,64),(4,31,37)); lvl=5; h,r-ind=1,1
        [3,3]((6,46,55),(3,23,28),(4,31,37)); lvl=6; h,r-ind=1,1
        [3,3]((7,54,64),(6,46,55),(4,31,37)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,18),(7,54,64),(6,46,55)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,18),(6,46,55),(3,23,28)); lvl=6; h,r-ind=1,1
      [3,3]((2,15,18),(3,23,28),(4,30,37)); lvl=5; h,r-ind=1,1
      [3,3]((3,23,28),(2,16,19),(4,31,37)); lvl=5; h,r-ind=1,1
      [4,3]((2,15,17),(2,15,18),(1,8,9),(7,54,64)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((2,15,18),(7,54,64),(3,23,27)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,9),(7,54,64),(3,23,27)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,17),(2,15,18),(3,23,27)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,9),(2,15,17),(3,23,27)); lvl=6; h,r-ind=1,1
    [3,3]((0,1,0),(1,8,9),(2,16,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,8),(2,15,17),(1,8,9)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,8,8),(1,8,9)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,20),(1,8,11),(1,8,10)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,8,11),(1,8,10)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,8),(2,14,15),(1,6,6),(1,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,6),(2,14,15),(2,13,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,8),(2,14,15),(2,13,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,8),(1,6,7),(2,13,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(1,6,6),(2,13,14)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,11),(1,6,6),(1,6,7)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,11,11),(1,6,6)); lvl=3; h,r-ind=1,1
  [4,3]((1,8,8),(2,15,17),(1,7,8),(2,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,15,16),(2,15,17),(1,7,8)); lvl=4; h,r-ind=1,1
    [3,3]((2,14,15),(2,15,16),(1,7,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,8),(2,14,15),(2,15,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,8),(2,15,16),(2,15,17)); lvl=4; h,r-ind=1,1
  [4,3]((0,1,0),(1,8,8),(2,14,15),(1,6,6)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((1,7,7),(2,14,15),(1,8,8)); lvl=4; h,r-ind=1,1
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      [3,3]((0,1,0),(1,7,7),(1,8,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,7),(1,6,6),(2,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(1,6,6)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(2,11,11),(1,3,3)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
[3,3]((0,1,0),(1,8,11),(1,8,14)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((1,8,22),(0,1,0),(1,8,14)); lvl=1; h,r-ind=8,8; optimized-h
[5,3]((1,6,9),(1,8,11),(1,8,14),(1,6,12),(1,7,14)); lvl=1; h,r-ind=1,1
  [3,3]((1,7,13),(1,8,14),(1,7,14)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,12),(1,7,13),(1,7,14)); lvl=2; h,r-ind=1,1
  [4,3]((1,7,13),(1,7,12),(1,8,14),(2,16,25)); lvl=2; h,r-ind=1,1
    [3,3]((1,7,12),(1,8,13),(2,16,25)); lvl=3; h,r-ind=1,1
    [3,3]((3,22,38),(1,7,12),(1,8,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,13),(3,22,38),(1,8,14),(1,8,13)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,8,13),(1,8,14),(2,15,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,13),(1,8,14),(2,15,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,22,38),(1,8,13),(2,15,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,13),(3,22,38),(2,15,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,13),(3,22,38),(1,7,12)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,12),(2,12,21),(1,7,13),(1,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,7,13),(1,7,12),(3,20,36)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,11),(1,7,12),(3,20,36)); lvl=3; h,r-ind=1,1
    [3,3]((2,12,21),(1,6,11),(1,7,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,12),(1,6,11),(1,7,13),(3,20,36)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,13,24),(1,6,11),(3,20,36)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,24),(1,7,13),(3,20,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(2,13,24),(1,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(2,13,24),(1,6,11)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,9),(1,7,10),(2,12,21),(1,7,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,9),(1,6,10),(1,7,11),(1,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,10),(1,7,11),(2,13,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,10),(1,7,11),(2,13,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(1,7,10),(2,13,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(1,6,10),(2,13,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(1,7,12),(1,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,10),(2,12,21),(1,7,12)); lvl=3; h,r-ind=1,1
  [4,3]((1,7,10),(1,8,11),(1,7,12),(2,16,25)); lvl=2; h,r-ind=1,1
    [3,3]((1,7,12),(2,16,25),(1,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,11),(1,7,12),(1,8,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,10),(1,7,11),(1,8,11),(1,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,11),(1,8,12),(2,15,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(1,8,12),(2,15,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,10),(1,8,11),(2,15,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(1,7,10),(2,15,22)); lvl=4; h,r-ind=1,1
[5,3]((1,6,12),(1,7,14),(1,7,18),(1,4,10),(1,6,16)); lvl=1; h,r-ind=2,1
  [3,3]((1,7,18),(1,6,15),(1,6,16)); lvl=2; h,r-ind=1,1
  [4,3]((2,11,27),(1,5,13),(1,6,15),(1,6,16)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,15),(1,6,16),(2,11,28)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,13),(1,6,16),(2,11,28)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,27),(1,6,15),(2,11,28)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,13),(2,11,27),(2,11,28)); lvl=3; h,r-ind=1,1
  [4,3]((2,11,26),(1,6,14),(2,11,27),(1,6,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,17,41),(1,6,15),(1,6,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,26),(3,17,41),(1,6,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,27),(3,17,41),(1,6,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,26),(2,11,27),(3,17,41)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,13),(2,11,26),(2,11,25),(1,6,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,25),(2,11,26),(3,17,39)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,14),(2,11,26),(3,17,39)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,13),(2,11,25),(3,17,39)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,14),(1,6,13),(3,17,39)); lvl=3; h,r-ind=1,1
  [4,3]((2,11,26),(1,4,10),(2,11,27),(1,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,12),(1,5,13),(1,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,12),(4,21,52),(1,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,27),(4,21,52),(1,5,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,12),(2,11,26),(2,11,27),(4,21,52)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,16,39),(2,11,26),(2,11,27)); lvl=4; h,r-ind=1,1
      [3,3]((4,21,52),(3,16,39),(2,11,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(4,21,52),(3,16,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(3,16,39),(2,11,26)); lvl=4; h,r-ind=1,1
  [4,3]((2,11,26),(2,11,25),(1,4,10),(1,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,21,48),(1,5,11),(2,11,25)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,26),(1,5,12),(4,21,48),(2,11,25)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,12),(4,21,48),(3,16,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,25),(4,21,48),(3,16,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,26),(2,11,25),(3,16,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,26),(1,5,12),(3,16,37)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,12),(4,21,48),(1,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,10),(1,5,12),(1,5,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,12),(1,6,13),(2,11,25),(1,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,13),(2,11,25),(2,11,24)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,5,11),(2,11,25),(2,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,12),(1,6,13),(2,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,11),(1,6,12),(2,11,24)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,16),(1,6,14),(1,7,18),(1,6,15)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,14),(3,19,46),(1,6,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,17),(1,7,18),(3,19,46),(1,6,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,32),(1,7,18),(1,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,19,46),(2,13,32),(1,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,17),(3,19,46),(2,13,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,17),(2,13,32),(1,7,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,16),(1,7,17),(1,6,14),(3,19,46)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,7,17),(3,19,46),(2,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,14),(3,19,46),(2,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,16),(1,7,17),(2,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,14),(1,7,16),(2,13,31)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,13),(1,7,14),(1,7,16),(1,6,14)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,14),(3,19,42),(1,7,15),(1,7,16)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,29),(3,19,42),(1,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,16),(2,13,29),(1,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,14),(1,7,16),(2,13,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,14),(2,13,29),(3,19,42)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,13),(1,6,14),(3,19,42)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,13),(3,19,42),(1,7,14),(1,7,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,7,14),(2,13,28),(1,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,19,42),(2,13,28),(1,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,13),(3,19,42),(2,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,13),(1,7,14),(2,13,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,12),(1,6,13),(1,7,14)); lvl=2; h,r-ind=1,1
  [3,3]((1,8,22),(1,7,18),(1,6,16)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,8,22),(1,8,14),(1,7,14),(1,7,18)); lvl=1; h,r-ind=4,1
    [4,3]((1,8,18),(1,7,16),(1,8,14),(1,7,14)); lvl=2; h,r-ind=2,1
      [4,3]((1,8,16),(1,8,14),(1,7,15),(1,7,14)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,15),(3,22,44),(1,7,14)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,15),(1,8,14),(3,22,44),(1,7,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,8,14),(1,7,14),(2,15,29)); lvl=5; h,r-ind=1,1
          [3,3]((3,22,44),(1,7,14),(2,15,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,15),(3,22,44),(2,15,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,15),(1,8,14),(2,15,29)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,16),(1,8,15),(1,7,15),(3,22,44)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,15,30),(3,22,44),(1,8,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,16),(2,15,30),(1,8,15)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,30),(1,7,15),(3,22,44)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,16),(2,15,30),(1,7,15)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,18),(1,8,16),(1,7,15),(1,7,16)); lvl=3; h,r-ind=1,1
        [4,3]((1,8,16),(1,8,17),(1,7,15),(3,22,48)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,15,32),(1,8,17),(3,22,48)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,15),(2,15,32),(3,22,48)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,16),(2,15,32),(1,8,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,15),(1,8,16),(2,15,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,16),(1,7,15),(3,22,48)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,18),(1,7,16),(1,8,17),(3,22,48)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,7,16),(3,22,48),(2,15,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,17),(3,22,48),(2,15,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,18),(1,8,17),(2,15,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,18),(1,7,16),(2,15,33)); lvl=5; h,r-ind=1,1
    [4,3]((1,8,22),(1,8,18),(1,7,18),(1,7,16)); lvl=2; h,r-ind=2,1
      [4,3]((1,8,20),(1,8,18),(1,7,17),(1,7,16)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,17),(3,22,52),(1,7,16)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,19),(1,8,18),(3,22,52),(1,7,16)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,8,18),(2,15,35),(1,7,16)); lvl=5; h,r-ind=1,1
          [3,3]((3,22,52),(2,15,35),(1,7,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,19),(3,22,52),(2,15,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,19),(1,8,18),(2,15,35)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,20),(1,8,19),(1,7,17),(3,22,52)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,15,36),(3,22,52),(1,8,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,20),(2,15,36),(1,8,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,17),(1,8,20),(2,15,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,17),(2,15,36),(3,22,52)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,22),(1,8,20),(1,7,17),(1,7,18)); lvl=3; h,r-ind=1,1
        [4,3]((1,8,20),(1,8,21),(1,7,17),(3,22,56)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,8,21),(3,22,56),(2,15,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,17),(3,22,56),(2,15,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,20),(1,8,21),(2,15,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,17),(1,8,20),(2,15,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,18),(1,7,17),(3,22,56)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,22),(1,7,18),(1,8,21),(3,22,56)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,15,39),(3,22,56),(1,7,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,22),(2,15,39),(1,7,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,21),(1,8,22),(2,15,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,21),(2,15,39),(3,22,56)); lvl=5; h,r-ind=1,1
```

22.15 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,9,22)); lvl=0; h,r-ind=22,484
  [5,3]((1,4,6),(1,4,8),(2,13,26),(1,9,13),(1,9,11)); lvl=1; h,r-ind=5,1
    [6,3]((1,6,10),(1,4,7),(1,6,11),(3,19,32),(2,11,22),(1,4,8)); lvl=2; h,r-ind=1,1
      [5,3]((1,6,11),(3,17,31),(3,19,32),(3,18,31),(5,29,51)); lvl=3; h,r-ind=1,1
        [3,3]((2,12,21),(4,23,41),(5,29,51)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,21),(3,18,31),(5,29,51)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,21),(3,19,32),(3,18,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(2,12,21),(3,19,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,21),(3,17,31),(4,23,41)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(2,12,21),(3,17,31)); lvl=4; h,r-ind=1,1
      [4,3]((3,17,30),(1,6,10),(3,18,31),(5,29,51)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,10),(3,18,31),(6,35,61)); lvl=4; h,r-ind=1,1
        [3,3]((5,29,51),(3,18,31),(6,35,61)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,30),(1,6,10),(6,35,61)); lvl=4; h,r-ind=1,1
        [3,3]((5,29,51),(3,17,30),(6,35,61)); lvl=4; h,r-ind=1,1
      [4,3]((3,17,31),(3,17,30),(3,16,29),(5,29,51)); lvl=3; h,r-ind=1,1
        [4,3]((2,11,20),(3,16,29),(3,17,30),(12,68,121)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((5,28,50),(3,16,29),(3,17,30)); lvl=5; h,r-ind=1,1
          [3,3]((12,68,121),(5,28,50),(3,17,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,20),(12,68,121),(5,28,50)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,20),(5,28,50),(3,16,29)); lvl=5; h,r-ind=1,1
        [4,3]((5,29,51),(7,40,71),(3,17,30),(12,68,121)); lvl=4; h,r-ind=1,1
          [3,3]((10,57,101),(3,17,30),(12,68,121)); lvl=5; h,r-ind=1,1
          [3,3]((10,57,101),(7,40,71),(12,68,121)); lvl=5; h,r-ind=1,1
          [3,3]((5,29,51),(10,57,101),(7,40,71)); lvl=5; h,r-ind=1,1
          [3,3]((5,29,51),(10,57,101),(3,17,30)); lvl=5; h,r-ind=1,1
        [4,3]((2,11,20),(4,23,41),(7,40,71),(12,68,121)); lvl=4; h,r-ind=1,1
          [3,3]((4,23,41),(9,51,91),(7,40,71)); lvl=5; h,r-ind=1,1
          [3,3]((12,68,121),(9,51,91),(7,40,71)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,20),(4,23,41),(9,51,91)); lvl=5; h,r-ind=1,1
          [3,3]((12,68,121),(2,11,20),(9,51,91)); lvl=5; h,r-ind=1,1
        [3,3]((4,23,41),(5,29,51),(7,40,71)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,31),(2,11,20),(4,23,41)); lvl=4; h,r-ind=1,1
      [4,3]((3,17,30),(1,5,9),(3,16,29),(1,6,10)); lvl=3; h,r-ind=1,1
        [3,3]((3,16,29),(1,5,9),(4,22,39)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(1,5,9),(4,22,39)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,30),(1,6,10),(4,22,39)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,30),(3,16,29),(4,22,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(1,4,7),(1,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,9),(1,4,8),(1,4,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,11),(2,11,22),(3,17,31),(2,11,21)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,22),(3,17,32),(2,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,31),(3,17,32),(2,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(2,11,22),(3,17,32)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,31),(1,6,11),(3,17,32)); lvl=4; h,r-ind=1,1
      [4,3]((3,17,31),(3,16,29),(2,11,21),(1,5,10)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,20),(1,5,10),(5,27,51)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,21),(1,5,10),(5,27,51)); lvl=4; h,r-ind=1,1
        [4,3]((3,17,31),(2,11,21),(2,11,20),(5,27,51)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,21),(5,27,51),(4,22,41)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,20),(5,27,51),(4,22,41)); lvl=5; h,r-ind=1,1
          [3,3]((3,17,31),(2,11,21),(4,22,41)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,20),(3,17,31),(4,22,41)); lvl=5; h,r-ind=1,1
        [3,3]((3,16,29),(2,11,20),(1,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,22),(2,11,21),(1,5,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,9),(3,16,29),(1,4,8),(1,5,10)); lvl=3; h,r-ind=1,1
        [3,3]((2,10,19),(1,5,10),(3,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(2,10,19),(3,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(1,4,8),(2,10,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(2,10,19),(1,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(3,19,32),(3,18,31)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,11),(1,6,12),(2,11,22)); lvl=2; h,r-ind=1,1
    [7,3]((1,6,11),(3,19,32),(4,26,43),(3,20,33),(1,7,12),(1,6,12),(1,7,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,20,33),(4,26,43),(2,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,19,32),(4,26,43),(2,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,11),(3,19,32),(2,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,11),(4,25,46),(1,6,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,12),(3,20,33),(2,13,22)); lvl=3; h,r-ind=1,1
      [4,3]((2,13,23),(4,27,48),(1,7,12),(2,13,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,27,48),(1,7,12),(3,20,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,22),(1,7,12),(3,20,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,23),(4,27,48),(3,20,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,22),(2,13,23),(3,20,35)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,11),(4,25,46),(2,13,23),(2,13,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,25,46),(3,19,34),(2,13,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,22),(3,19,34),(2,13,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(2,13,22),(3,19,34)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(4,25,46),(3,19,34)); lvl=4; h,r-ind=1,1
```

```
    [3,3]((4,27,48),(1,7,12),(1,7,13)); lvl=3; h,r-ind=1,1
    [5,3]((4,25,46),(2,13,23),(4,27,48),(1,6,12),(1,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,20,36),(5,33,60),(1,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,24),(5,33,60),(1,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(2,13,24),(1,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((5,32,59),(1,6,12),(2,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,35),(5,32,59),(1,6,12)); lvl=4; h,r-ind=1,1
      [3,3]((4,25,46),(3,19,35),(1,6,12)); lvl=4; h,r-ind=1,1
      [4,3]((5,32,59),(4,26,47),(2,13,24),(5,33,60)); lvl=4; h,r-ind=1,1
        [3,3]((4,26,47),(5,33,60),(6,39,71)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,24),(5,33,60),(6,39,71)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,24),(5,32,59),(6,39,71)); lvl=5; h,r-ind=1,1
        [3,3]((5,32,59),(4,26,47),(6,39,71)); lvl=5; h,r-ind=1,1
      [3,3]((4,27,48),(3,20,36),(1,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,23),(4,27,48),(3,20,36)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,23),(4,26,47),(3,20,36),(5,33,60)); lvl=4; h,r-ind=1,1
        [3,3]((5,33,60),(4,26,47),(7,46,83)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,23),(4,26,47),(7,46,83)); lvl=5; h,r-ind=1,1
        [3,3]((3,20,36),(2,13,23),(7,46,83)); lvl=5; h,r-ind=1,1
        [3,3]((3,20,36),(5,33,60),(7,46,83)); lvl=5; h,r-ind=1,1
      [4,3]((3,19,35),(5,32,59),(2,13,23),(4,26,47)); lvl=4; h,r-ind=1,1
        [3,3]((4,26,47),(2,13,23),(7,45,82)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,35),(2,13,23),(7,45,82)); lvl=5; h,r-ind=1,1
        [3,3]((5,32,59),(3,19,35),(7,45,82)); lvl=5; h,r-ind=1,1
        [3,3]((5,32,59),(4,26,47),(7,45,82)); lvl=5; h,r-ind=1,1
      [3,3]((4,25,46),(3,19,35),(2,13,23)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,12),(1,7,13),(2,13,26)); lvl=2; h,r-ind=1,1
  [3,3]((1,7,12),(1,7,13),(2,15,26)); lvl=2; h,r-ind=1,1
  [6,3]((1,7,11),(3,20,33),(1,7,12),(1,9,12),(2,15,26),(1,9,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,15,26),(3,22,36),(2,15,25),(1,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,22,37),(2,15,25),(3,22,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(3,22,37),(3,22,36)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,26),(3,22,37),(2,15,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(2,15,26),(3,22,37)); lvl=4; h,r-ind=1,1
    [5,3]((3,20,33),(5,36,58),(3,21,34),(3,22,36),(1,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,21,34),(3,20,33),(2,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(3,20,33),(2,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((5,36,58),(3,21,34),(2,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((5,36,58),(4,29,47),(2,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((4,29,47),(3,22,36),(2,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(3,22,36),(2,14,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,11),(3,20,33),(3,21,34)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,11),(3,22,35),(5,36,58),(3,21,34)); lvl=3; h,r-ind=1,1
      [3,3]((3,22,35),(5,36,58),(6,43,69)); lvl=4; h,r-ind=1,1
      [3,3]((3,21,34),(5,36,58),(6,43,69)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(3,22,35),(6,43,69)); lvl=4; h,r-ind=1,1
      [3,3]((3,21,34),(1,7,11),(6,43,69)); lvl=4; h,r-ind=1,1
    [4,3]((3,23,36),(1,8,13),(3,22,36),(2,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,13),(5,38,62),(2,15,25)); lvl=4; h,r-ind=1,1
      [4,3]((2,15,24),(3,22,36),(5,38,62),(2,15,25)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,30,49),(2,15,25),(3,22,36)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,24),(4,30,49),(3,22,36)); lvl=5; h,r-ind=1,1
        [3,3]((5,38,62),(4,30,49),(2,15,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,24),(5,38,62),(4,30,49)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,24),(1,8,13),(5,38,62)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,36),(2,15,24),(1,8,13)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,26),(1,8,13),(2,15,25)); lvl=3; h,r-ind=1,1
    [4,3]((3,22,35),(5,36,58),(3,23,36),(3,22,36)); lvl=3; h,r-ind=1,1
      [3,3]((3,22,36),(2,15,24),(4,29,47)); lvl=4; h,r-ind=1,1
      [4,3]((12,88,141),(7,51,82),(2,15,24),(4,29,47)); lvl=4; h,r-ind=1,1
        [3,3]((9,66,106),(7,51,82),(4,29,47)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,24),(9,66,106),(4,29,47)); lvl=5; h,r-ind=1,1
        [3,3]((12,88,141),(2,15,24),(9,66,106)); lvl=5; h,r-ind=1,1
        [3,3]((12,88,141),(9,66,106),(7,51,82)); lvl=5; h,r-ind=1,1
      [3,3]((5,36,58),(7,51,82),(4,29,47)); lvl=4; h,r-ind=1,1
      [4,3]((3,22,35),(12,88,141),(5,36,58),(7,51,82)); lvl=4; h,r-ind=1,1
        [3,3]((10,73,117),(7,51,82),(12,88,141)); lvl=5; h,r-ind=1,1
        [3,3]((3,22,35),(10,73,117),(12,88,141)); lvl=5; h,r-ind=1,1
        [3,3]((10,73,117),(5,36,58),(7,51,82)); lvl=5; h,r-ind=1,1
        [3,3]((3,22,35),(10,73,117),(5,36,58)); lvl=5; h,r-ind=1,1
      [4,3]((3,22,35),(12,88,141),(3,23,36),(2,15,24)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((12,88,141),(5,37,59),(2,15,24)); lvl=5; h,r-ind=1,1
        [3,3]((3,23,36),(5,37,59),(2,15,24)); lvl=5; h,r-ind=1,1
        [3,3]((3,22,35),(3,23,36),(5,37,59)); lvl=5; h,r-ind=1,1
        [3,3]((3,22,35),(12,88,141),(5,37,59)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,13),(1,8,12),(3,23,36),(1,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,16,25),(1,8,12),(3,23,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,13),(2,16,25),(3,23,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,13),(2,16,25),(1,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,13),(1,9,13),(2,16,25)); lvl=4; h,r-ind=1,1
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    [3,3]((1,7,11),(1,9,12),(1,8,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,11),(3,22,35),(1,8,12),(3,23,36)); lvl=3; h,r-ind=1,1
      [3,3]((3,22,35),(3,23,36),(4,30,47)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,12),(3,23,36),(4,30,47)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(3,22,35),(4,30,47)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,12),(1,7,11),(4,30,47)); lvl=4; h,r-ind=1,1
  [4,3]((2,13,21),(1,7,11),(4,26,43),(3,20,33)); lvl=2; h,r-ind=1,1
    [3,3]((5,33,54),(3,20,33),(1,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,21),(5,33,54),(1,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((4,26,43),(5,33,54),(3,20,33)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,21),(4,26,43),(5,33,54)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,10),(2,13,21),(3,19,32),(4,26,43)); lvl=2; h,r-ind=1,1
    [3,3]((2,13,21),(4,26,43),(5,32,53)); lvl=3; h,r-ind=1,1
    [3,3]((3,19,32),(4,26,43),(5,32,53)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,10),(2,13,21),(5,32,53)); lvl=3; h,r-ind=1,1
    [3,3]((3,19,32),(1,6,10),(5,32,53)); lvl=3; h,r-ind=1,1
  [5,3]((1,4,6),(1,6,10),(1,4,7),(2,13,17),(2,13,21)); lvl=2; h,r-ind=1,1
    [4,3]((2,13,21),(1,6,9),(2,13,19),(2,12,19)); lvl=3; h,r-ind=1,1
      [4,3]((2,13,20),(2,13,19),(4,25,39),(1,6,9)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,6,9),(2,13,19),(3,19,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,20),(2,13,19),(3,19,29)); lvl=5; h,r-ind=1,1
        [3,3]((4,25,39),(1,6,9),(3,19,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,20),(4,25,39),(3,19,29)); lvl=5; h,r-ind=1,1
      [3,3]((2,12,19),(4,25,39),(1,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,21),(2,12,19),(4,25,39)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,13,21),(2,13,20),(4,25,39)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,6,10),(2,13,21),(2,12,19)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,17),(1,5,8),(1,6,10),(2,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,27),(1,6,10),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,17),(3,17,27),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,19),(3,17,27),(1,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,17),(2,12,19),(3,17,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(1,4,7),(1,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,5,8),(1,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,17),(1,6,9),(2,12,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(2,11,15),(2,11,17),(1,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,24),(2,11,16),(2,11,17)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,8),(3,16,24),(5,26,39),(2,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,32),(3,16,24),(5,26,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(4,21,32),(5,26,39)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,32),(2,11,17),(3,16,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(4,21,32),(2,11,17)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,7),(1,4,6),(1,5,8),(5,26,39)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((1,5,8),(1,4,6),(2,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(1,4,6),(2,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((5,26,39),(1,5,8),(2,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(5,26,39),(2,10,15)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,7),(3,16,24),(5,26,39),(2,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,26,39),(4,21,31),(3,16,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,16),(4,21,31),(3,16,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(2,11,16),(4,21,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(5,26,39),(4,21,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,15),(2,11,16)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,17),(1,6,8),(1,6,9),(2,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(1,6,9),(4,25,35)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,18),(2,13,19),(1,6,9),(4,25,35)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,19),(3,19,27),(1,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((4,25,35),(3,19,27),(1,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,18),(4,25,35),(3,19,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,18),(2,13,19),(3,19,27)); lvl=5; h,r-ind=1,1
      [4,3]((2,13,17),(2,13,18),(1,6,8),(4,25,35)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,19,26),(4,25,35),(2,13,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,17),(3,19,26),(2,13,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(2,13,17),(3,19,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(3,19,26),(4,25,35)); lvl=5; h,r-ind=1,1
    [4,3]((2,11,15),(2,11,17),(1,6,8),(1,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(1,6,9),(4,23,33)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,16),(2,11,17),(1,6,9),(4,23,33)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,25),(2,11,17),(1,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((4,23,33),(3,17,25),(1,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,16),(4,23,33),(3,17,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,16),(3,17,25),(2,11,17)); lvl=5; h,r-ind=1,1
      [4,3]((2,11,15),(2,11,16),(1,6,8),(4,23,33)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,16),(4,23,33),(3,17,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(4,23,33),(3,17,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,15),(2,11,16),(3,17,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(2,11,15),(3,17,24)); lvl=5; h,r-ind=1,1
  [5,3]((2,13,17),(2,13,21),(1,7,11),(1,9,11),(1,9,12)); lvl=2; h,r-ind=1,1
    [4,3]((2,15,21),(1,8,11),(1,7,11),(2,14,21)); lvl=3; h,r-ind=1,1
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      [3,3]((2,15,21),(3,22,32),(1,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,21),(3,22,32),(1,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,21),(2,14,21),(3,22,32)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,21),(1,7,11),(2,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,10),(2,15,21),(2,14,21)); lvl=3; h,r-ind=1,1
    [4,3]((2,13,21),(2,13,19),(1,7,10),(2,14,21)); lvl=3; h,r-ind=1,1
      [4,3]((4,27,41),(2,13,19),(2,13,20),(1,7,10)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,20,30),(2,13,20),(2,13,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(3,20,30),(2,13,19)); lvl=5; h,r-ind=1,1
        [3,3]((4,27,41),(3,20,30),(2,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(4,27,41),(3,20,30)); lvl=5; h,r-ind=1,1
      [3,3]((2,14,21),(4,27,41),(1,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,21),(2,14,21),(4,27,41)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,13,21),(4,27,41),(2,13,20)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,7,9),(2,15,19),(1,7,10),(2,15,21)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,10),(4,29,39),(2,15,20),(2,15,21)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,22,30),(2,15,20),(4,29,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(3,22,30),(4,29,39)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,21),(3,22,30),(2,15,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(2,15,21),(3,22,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(1,7,10),(4,29,39)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,9),(4,29,39),(2,15,19),(2,15,20)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,15,19),(3,22,29),(2,15,20)); lvl=5; h,r-ind=1,1
        [3,3]((4,29,39),(3,22,29),(2,15,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(2,15,19),(3,22,29)); lvl=5; h,r-ind=1,1
        [3,3]((4,29,39),(1,7,9),(3,22,29)); lvl=5; h,r-ind=1,1
    [4,3]((2,13,17),(2,13,19),(1,7,9),(1,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(1,7,10),(4,27,37)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,18),(2,13,19),(1,7,10),(4,27,37)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,19),(1,7,10),(3,20,28)); lvl=5; h,r-ind=1,1
        [3,3]((4,27,37),(1,7,10),(3,20,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,18),(4,27,37),(3,20,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,18),(2,13,19),(3,20,28)); lvl=5; h,r-ind=1,1
      [4,3]((2,13,17),(2,13,18),(1,7,9),(4,27,37)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,18),(4,27,37),(3,20,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(4,27,37),(3,20,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,17),(2,13,18),(3,20,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(2,13,17),(3,20,27)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,11),(1,9,12),(1,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,9,11),(1,8,11),(1,9,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,9,11),(2,15,19),(2,15,21),(1,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,23,31),(2,15,21),(2,15,20)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,10),(5,39,52),(3,23,31),(2,15,20)); lvl=4; h,r-ind=1,1
        [3,3]((4,31,41),(3,23,31),(5,39,52)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,10),(4,31,41),(5,39,52)); lvl=5; h,r-ind=1,1
        [3,3]((4,31,41),(2,15,20),(3,23,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,10),(4,31,41),(2,15,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,10),(2,15,19),(2,15,20)); lvl=4; h,r-ind=1,1
      [4,3]((5,39,52),(1,8,11),(3,23,31),(2,15,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,31,42),(1,8,11),(2,15,21)); lvl=5; h,r-ind=1,1
        [3,3]((4,31,42),(3,23,31),(2,15,21)); lvl=5; h,r-ind=1,1
        [3,3]((5,39,52),(4,31,42),(3,23,31)); lvl=5; h,r-ind=1,1
        [3,3]((5,39,52),(4,31,42),(1,8,11)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,11),(1,8,10),(5,39,52),(1,8,11)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((1,8,10),(2,16,21),(5,39,52)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,11),(2,16,21),(5,39,52)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,11),(1,8,11),(2,16,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,11),(1,8,10),(2,16,21)); lvl=5; h,r-ind=1,1
[3,3]((0,1,0),(1,9,13),(1,9,11)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((0,1,0),(1,0,0),(1,4,6),(1,9,11)); lvl=1; h,r-ind=1,1
  [5,3]((2,11,11),(1,2,2),(2,13,17),(1,2,3),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,15),(1,4,6),(2,9,11),(1,3,4)); lvl=3; h,r-ind=3,1; alert-h-inc
      [4,3]((1,5,7),(1,4,6),(1,4,5),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(1,3,4),(2,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(1,3,4),(2,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(1,4,6),(2,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(1,5,7),(2,8,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,13),(1,5,7),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,11),(2,10,13),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,13),(2,11,15),(1,5,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,2),(1,4,4),(2,9,11),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,4,5),(2,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(1,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,2),(1,3,4),(1,3,3),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,5),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,4,5),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,4),(2,6,7)); lvl=5; h,r-ind=1,1
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      [3,3]((1,3,3),(1,2,2),(2,6,7)); lvl=5; h,r-ind=1,1
  [4,3]((1,5,6),(1,6,8),(2,11,15),(2,9,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,8),(4,21,27),(2,11,15),(2,10,13)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,16,21),(4,21,27),(2,10,13)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,15),(3,16,21),(2,10,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,15),(3,16,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(3,16,21),(4,21,27)); lvl=5; h,r-ind=1,1
    [4,3]((2,9,11),(1,5,6),(4,21,27),(2,10,13)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,15,19),(1,5,6),(4,21,27)); lvl=5; h,r-ind=1,1
      [3,3]((3,15,19),(2,10,13),(4,21,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,11),(3,15,19),(2,10,13)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,11),(3,15,19),(1,5,6)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,6),(1,6,8),(4,21,27)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,5),(1,4,4),(1,5,6),(2,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(2,9,11),(2,9,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,11),(2,9,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,5),(1,5,6),(2,9,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,5),(1,4,4),(2,9,10)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,7),(1,5,5),(1,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((2,11,11),(1,6,7),(1,5,5)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,7),(1,5,6),(1,6,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,7),(1,6,8),(2,13,17)); lvl=3; h,r-ind=1,1
[3,3]((1,2,2),(1,0,0),(1,2,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[4,3]((0,1,0),(2,11,11),(1,9,11),(2,13,17)); lvl=2; h,r-ind=1,1
  [3,3]((1,7,9),(2,13,17),(1,6,7)); lvl=3; h,r-ind=1,1
  [4,3]((1,7,9),(1,7,8),(2,13,14),(1,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,8),(2,13,14),(2,13,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(2,13,14),(2,13,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(1,7,8),(2,13,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(1,7,9),(2,13,15)); lvl=4; h,r-ind=1,1
  [4,3]((2,13,14),(4,26,27),(1,6,6),(1,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,6),(3,19,20),(4,26,27)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,14),(3,19,20),(4,26,27)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,14),(1,6,7),(3,19,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(1,6,6),(3,19,20)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,6),(2,11,11),(1,6,7)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,6),(2,11,11)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,7,7),(4,26,27),(1,6,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,7),(2,13,13),(4,26,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,6),(2,13,13),(4,26,27)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,6),(2,13,13)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,7,7),(2,13,13)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,9),(2,15,19),(1,7,8),(2,15,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,8),(4,29,35),(2,15,18),(2,15,17)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,22,26),(4,29,35),(2,15,18)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,17),(3,22,26),(2,15,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,8),(2,15,17),(3,22,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,8),(3,22,26),(4,29,35)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,9),(1,7,8),(4,29,35)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,9),(4,29,35),(2,15,19),(2,15,18)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,15,18),(2,15,19),(3,22,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(2,15,19),(3,22,27)); lvl=5; h,r-ind=1,1
      [3,3]((4,29,35),(2,15,18),(3,22,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(4,29,35),(3,22,27)); lvl=5; h,r-ind=1,1
  [6,3]((1,8,8),(1,7,7),(1,7,8),(2,15,17),(2,13,14),(4,26,27)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,8),(3,22,24),(6,43,45),(4,29,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,22,23),(6,43,45),(9,65,69)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((3,22,24),(2,15,16),(3,22,23),(9,65,69)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,16),(9,66,70),(3,22,23)); lvl=6; h,r-ind=1,1
        [3,3]((4,29,31),(9,66,70),(3,22,23)); lvl=6; h,r-ind=1,1
        [3,3]((4,29,31),(9,65,69),(3,22,23)); lvl=6; h,r-ind=1,1
        [4,3]((3,22,24),(4,29,31),(2,15,16),(9,66,70)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((4,29,31),(9,66,70),(6,44,47)); lvl=7; h,r-ind=1,1
          [3,3]((2,15,16),(9,66,70),(6,44,47)); lvl=7; h,r-ind=1,1
          [3,3]((3,22,24),(4,29,31),(6,44,47)); lvl=7; h,r-ind=1,1
          [3,3]((2,15,16),(3,22,24),(6,44,47)); lvl=7; h,r-ind=1,1
      [3,3]((1,8,8),(2,15,16),(3,22,23)); lvl=5; h,r-ind=1,1
      [3,3]((4,29,30),(3,22,23),(6,43,45)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,8),(4,29,30),(3,22,23)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,7),(3,21,22),(6,43,45),(4,29,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,21,22),(6,43,45),(7,50,52)); lvl=5; h,r-ind=1,1
      [3,3]((4,29,30),(6,43,45),(7,50,52)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,7),(3,21,22),(7,50,52)); lvl=5; h,r-ind=1,1
      [3,3]((4,29,30),(1,7,7),(7,50,52)); lvl=5; h,r-ind=1,1
    [4,3]((3,20,21),(5,34,36),(1,7,7),(3,21,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,7),(3,21,22),(6,41,43)); lvl=5; h,r-ind=1,1
      [3,3]((5,34,36),(3,21,22),(6,41,43)); lvl=5; h,r-ind=1,1
      [3,3]((3,20,21),(1,7,7),(6,41,43)); lvl=5; h,r-ind=1,1
      [3,3]((5,34,36),(3,20,21),(6,41,43)); lvl=5; h,r-ind=1,1
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      [3,3]((4,26,27),(3,20,21),(1,7,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,14),(4,26,27),(3,20,21)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,14),(4,27,29),(3,20,21),(5,34,36)); lvl=4; h,r-ind=1,1
        [3,3]((5,34,36),(4,27,29),(7,47,50)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,14),(4,27,29),(7,47,50)); lvl=5; h,r-ind=1,1
        [3,3]((3,20,21),(2,13,14),(7,47,50)); lvl=5; h,r-ind=1,1
        [3,3]((3,20,21),(5,34,36),(7,47,50)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,8),(2,13,14),(4,27,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,7),(1,8,8),(4,29,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,17),(1,8,8),(3,22,24)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,7,8),(2,15,17),(3,22,24)); lvl=4; h,r-ind=1,1
      [6,3]((1,7,8),(4,27,29),(5,34,36),(3,21,22),(3,22,24),(6,43,45)); lvl=4; h,r-ind=1,1
        [3,3]((5,34,36),(4,27,29),(2,14,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(4,27,29),(2,14,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(3,22,24),(2,14,15)); lvl=5; h,r-ind=1,1
        [3,3]((3,21,22),(5,34,36),(2,14,15)); lvl=5; h,r-ind=1,1
        [3,3]((3,21,22),(6,43,45),(2,14,15)); lvl=5; h,r-ind=1,1
        [3,3]((9,65,69),(6,43,45),(2,14,15)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
        [3,3]((3,22,24),(9,65,69),(2,14,15)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((0,1,0),(1,9,11),(2,15,19),(1,8,8),(2,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,9),(2,15,18),(2,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,9),(1,8,8),(2,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,9),(1,8,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,10),(1,8,9),(2,15,19),(2,15,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,19),(2,15,18),(3,23,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(2,15,18),(3,23,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,10),(1,8,9),(3,23,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,10),(2,15,19),(3,23,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,10),(1,8,9),(2,17,19)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,9),(2,17,19)); lvl=4; h,r-ind=1,1
      [4,3]((0,1,0),(1,9,11),(1,8,10),(2,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,11),(1,9,10),(1,8,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,19),(1,9,10),(1,8,10)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(2,17,19),(1,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(1,9,11),(1,9,10)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,8,8),(1,7,7)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,11,11),(1,2,2)); lvl=2; h,r-ind=7,7; alert-h-inc; alert-r-inc; optimized-h
[4,3]((1,9,22),(1,8,19),(2,13,26),(1,9,13)); lvl=1; h,r-ind=3,1
  [3,3]((1,7,15),(1,7,14),(2,13,26)); lvl=2; h,r-ind=1,1
  [3,3]((1,7,13),(1,7,14),(2,13,26)); lvl=2; h,r-ind=1,1
  [4,3]((2,15,30),(2,15,32),(1,7,15),(1,7,14)); lvl=2; h,r-ind=1,1
    [4,3]((2,15,31),(4,29,60),(1,7,15),(2,15,32)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,22,46),(4,29,60),(1,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,32),(3,22,46),(1,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,31),(2,15,32),(3,22,46)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,31),(3,22,46),(4,29,60)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,14),(4,29,60),(1,7,15)); lvl=3; h,r-ind=1,1
    [4,3]((2,15,31),(2,15,30),(1,7,14),(4,29,60)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,7,14),(2,15,30),(3,22,45)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,31),(2,15,30),(3,22,45)); lvl=4; h,r-ind=1,1
      [3,3]((4,29,60),(1,7,14),(3,22,45)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,31),(4,29,60),(3,22,45)); lvl=4; h,r-ind=1,1
  [4,3]((2,15,26),(1,7,13),(2,15,30),(1,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,7,13),(1,7,14),(6,43,82)); lvl=3; h,r-ind=1,1
    [4,3]((2,15,30),(2,15,28),(1,7,14),(6,43,82)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,7,14),(4,29,56),(6,43,82),(4,29,55)); lvl=4; h,r-ind=1,2
        [3,3]((4,29,55),(4,29,56),(5,36,69)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,14),(4,29,56),(5,36,69)); lvl=5; h,r-ind=1,1
        [3,3]((6,43,82),(4,29,55),(5,36,69)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,14),(6,43,82),(5,36,69)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,28),(4,29,56),(4,29,55)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((2,15,28),(2,15,29),(4,29,56)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,7,14),(2,15,30),(2,15,29),(4,29,56)); lvl=4; h,r-ind=1,2
        [3,3]((2,15,30),(3,22,43),(2,15,29)); lvl=5; h,r-ind=1,1
        [3,3]((4,29,56),(3,22,43),(2,15,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,14),(4,29,56),(3,22,43)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,14),(2,15,30),(3,22,43)); lvl=5; h,r-ind=1,1
    [4,3]((2,15,26),(2,15,28),(1,7,13),(6,43,82)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,7,13),(4,29,54),(4,29,55),(6,43,82)); lvl=4; h,r-ind=1,2
        [3,3]((4,29,54),(5,36,68),(4,29,55)); lvl=5; h,r-ind=1,1
        [3,3]((6,43,82),(5,36,68),(4,29,55)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,13),(4,29,54),(5,36,68)); lvl=5; h,r-ind=1,1
        [3,3]((6,43,82),(1,7,13),(5,36,68)); lvl=5; h,r-ind=1,1
      [3,3]((4,29,54),(2,15,28),(4,29,55)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((2,15,27),(4,29,54),(2,15,28)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,7,13),(2,15,27),(2,15,26),(4,29,54)); lvl=4; h,r-ind=1,2
        [3,3]((3,22,40),(2,15,26),(2,15,27)); lvl=5; h,r-ind=1,1
        [3,3]((4,29,54),(3,22,40),(2,15,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,13),(4,29,54),(3,22,40)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,13),(3,22,40),(2,15,26)); lvl=5; h,r-ind=1,1
```

```
[5,3]((2,18,35),(1,9,13),(2,15,26),(2,15,30),(1,8,16)); lvl=2; h,r-ind=1,1
  [4,3]((2,18,31),(1,8,13),(2,16,29),(1,9,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,9,13),(2,18,29),(1,8,13),(1,8,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,13),(1,8,14),(3,25,41)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,14),(1,8,14),(3,25,41)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,14),(2,18,29),(1,8,14)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,13),(1,9,14),(1,8,13),(3,25,41)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,25,41),(1,9,14),(2,17,27)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,13),(1,9,14),(2,17,27)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,13),(1,9,13),(2,17,27)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,13),(3,25,41),(2,17,27)); lvl=6; h,r-ind=1,1
    [3,3]((1,9,15),(2,18,29),(1,8,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,15),(2,17,30),(1,8,14)); lvl=4; h,r-ind=1,1
    [3,3]((2,17,30),(2,16,29),(1,8,14)); lvl=4; h,r-ind=1,1
    [3,3]((2,18,31),(1,9,15),(2,17,30)); lvl=4; h,r-ind=1,1
  [4,3]((1,9,17),(2,16,31),(2,18,31),(2,16,29)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc
    [3,3]((2,17,30),(2,16,29),(1,8,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,16),(2,17,30),(1,8,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,17),(1,9,16),(1,8,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,17),(2,16,31),(1,8,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,18,31),(1,9,16),(2,17,30)); lvl=4; h,r-ind=1,1
  [4,3]((1,9,17),(2,18,35),(2,16,31),(1,8,16)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((2,17,33),(2,16,31),(1,8,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,18,35),(2,17,33),(1,8,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,17),(2,18,35),(2,17,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,17),(2,17,33),(2,16,31)); lvl=4; h,r-ind=1,1
  [4,3]((2,16,31),(2,16,29),(2,15,28),(2,15,30)); lvl=3; h,r-ind=4,2; alert-h-inc; alert-r-inc
    [3,3]((1,8,15),(2,15,29),(2,15,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,15),(2,16,29),(2,15,28)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,30),(1,8,15),(2,15,29)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,30),(2,16,31),(1,8,15)); lvl=4; h,r-ind=1,1
  [3,3]((2,16,31),(1,8,16),(2,15,30)); lvl=3; h,r-ind=1,1
  [4,3]((2,15,26),(1,8,13),(2,16,29),(2,15,28)); lvl=3; h,r-ind=1,1
    [3,3]((2,15,28),(1,8,14),(2,16,29)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,28),(2,15,27),(1,8,14)); lvl=4; h,r-ind=1,1
    [4,3]((2,15,26),(2,15,27),(1,8,13),(1,8,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,40),(1,8,14),(1,8,13)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,26),(3,23,40),(1,8,13)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,27),(3,23,40),(1,8,14)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,26),(2,15,27),(3,23,40)); lvl=5; h,r-ind=1,1
[4,3]((1,8,19),(1,8,18),(2,15,32),(1,7,15)); lvl=2; h,r-ind=1,1
  [3,3]((2,15,33),(1,8,18),(2,15,32)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,15),(2,15,33),(2,15,32)); lvl=3; h,r-ind=1,1
  [3,3]((1,8,19),(2,15,33),(1,8,18)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,15),(1,8,19),(2,15,33)); lvl=3; h,r-ind=1,1
[3,3]((1,9,22),(1,8,19),(1,8,18)); lvl=2; h,r-ind=1,1
[4,3]((2,15,30),(1,8,16),(1,8,18),(2,15,32)); lvl=2; h,r-ind=2,1
  [4,3]((2,15,32),(2,15,31),(1,8,18),(1,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,17),(1,8,18),(3,23,49)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,32),(1,8,18),(3,23,49)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,31),(2,15,32),(3,23,49)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,31),(1,8,17),(3,23,49)); lvl=4; h,r-ind=1,1
  [4,3]((2,15,30),(2,15,31),(1,8,16),(1,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,23,47),(1,8,17),(1,8,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,30),(3,23,47),(1,8,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,31),(3,23,47),(1,8,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,30),(2,15,31),(3,23,47)); lvl=4; h,r-ind=1,1
[4,3]((1,9,22),(2,18,35),(1,8,16),(1,8,18)); lvl=2; h,r-ind=1,1
  [4,3]((1,9,18),(2,18,39),(1,8,16),(1,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,17),(1,8,16),(3,25,52)); lvl=4; h,r-ind=1,1
    [4,3]((1,9,19),(1,9,18),(1,8,16),(3,25,52)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,9,18),(2,17,35),(1,8,16)); lvl=5; h,r-ind=1,1
      [3,3]((3,25,52),(2,17,35),(1,8,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,19),(3,25,52),(2,17,35)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,19),(1,9,18),(2,17,35)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,19),(1,8,17),(3,25,52)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,19),(2,18,39),(1,8,17)); lvl=4; h,r-ind=1,1
  [4,3]((1,9,22),(1,8,18),(2,18,39),(1,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((4,33,73),(1,8,17),(1,8,18)); lvl=4; h,r-ind=1,1
    [4,3]((1,9,22),(4,33,73),(2,18,41),(1,8,18)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,8,18),(5,42,95),(2,17,38),(4,33,73)); lvl=5; h,r-ind=1,3
        [3,3]((3,25,56),(5,42,95),(2,17,38)); lvl=6; h,r-ind=1,1
        [3,3]((4,33,73),(3,25,56),(2,17,38)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,18),(4,33,73),(3,25,56)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,18),(3,25,56),(5,42,95)); lvl=6; h,r-ind=1,1
      [4,3]((1,9,21),(1,9,22),(1,8,18),(5,42,95)); lvl=5; h,r-ind=1,3
        [3,3]((2,17,39),(1,8,18),(1,9,22)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,21),(2,17,39),(1,9,22)); lvl=6; h,r-ind=1,1
        [3,3]((5,42,95),(2,17,39),(1,8,18)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,21),(5,42,95),(2,17,39)); lvl=6; h,r-ind=1,1
```

```
          [3,3]((1,9,21),(5,42,95),(2,17,38)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [3,3]((1,9,21),(2,18,41),(2,17,38)); lvl=5; h,r-ind=1,1
        [4,3]((4,33,73),(2,18,41),(1,9,20),(1,8,17)); lvl=4; h,r-ind=1,1
          [4,3]((2,17,38),(1,9,20),(2,18,41),(4,34,75)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,26,58),(2,18,41),(1,9,20)); lvl=6; h,r-ind=1,1
            [3,3]((4,34,75),(3,26,58),(1,9,20)); lvl=6; h,r-ind=1,1
            [3,3]((2,17,38),(4,34,75),(3,26,58)); lvl=6; h,r-ind=1,1
            [3,3]((2,17,38),(3,26,58),(2,18,41)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,17),(2,17,38),(4,34,75)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,17),(2,17,38),(4,33,73)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,17),(1,9,20),(4,34,75)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,20),(2,18,39),(1,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,18,35),(1,9,18),(1,8,16)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,9,22),(1,9,13)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((1,0,0),(1,4,6),(1,4,8)); lvl=1; h,r-ind=8,4; optimized-h
  [5,3]((1,7,17),(1,8,19),(1,4,8),(2,13,26),(2,8,19)); lvl=1; h,r-ind=3,1
    [6,3]((1,4,9),(2,11,25),(2,12,27),(1,4,8),(2,11,22),(1,6,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,24),(1,6,13),(2,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,11),(2,11,24),(2,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,25),(1,5,11),(2,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(2,11,25),(1,5,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,10),(2,11,22),(2,11,24),(1,6,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,22),(2,11,23),(1,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,24),(2,11,23),(1,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(2,11,22),(2,11,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,24),(1,5,10),(2,11,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(1,5,10),(2,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,11),(1,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(1,4,8),(1,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,12),(2,11,22),(1,6,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,13,29),(1,7,15),(1,6,12),(1,6,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,7,15),(1,6,12),(2,13,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,13),(1,6,12),(2,13,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,29),(1,6,13),(2,13,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,29),(1,7,15),(2,13,28)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,19),(2,13,29),(1,7,15)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((1,7,15),(1,6,12),(2,13,26)); lvl=2; h,r-ind=1,1
    [3,3]((2,13,29),(2,12,27),(1,6,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,8,19),(2,14,33),(2,13,29),(2,12,27)); lvl=2; h,r-ind=1,1
      [4,3]((1,8,19),(1,7,16),(2,13,30),(2,14,33)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,16),(2,13,30),(3,21,49)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,33),(2,13,30),(3,21,49)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,19),(1,7,16),(3,21,49)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,33),(1,8,19),(3,21,49)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,16),(2,12,27),(2,13,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,29),(1,7,16),(2,12,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,12),(1,4,9),(2,11,25)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,5,12),(2,8,19),(1,4,9)); lvl=2; h,r-ind=1,1
    [5,3]((1,7,17),(2,14,33),(1,5,12),(2,11,25),(2,12,27)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,14),(2,11,25),(2,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,30),(1,6,14),(2,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,14,33),(2,13,30),(1,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,17),(2,14,33),(1,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,14),(1,5,12),(2,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,17),(1,6,14),(1,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,19),(1,7,17),(2,14,33)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,7,17),(2,8,19)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,9,22),(1,0,0),(1,7,17)); lvl=1; h,r-ind=1,1
  [3,3]((1,9,22),(1,7,17),(1,8,19)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,4,8),(2,8,19)); lvl=1; h,r-ind=12,12; optimized-h
```

22.16 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,10,22)); lvl=0; h,r-ind=22,242
  [5,3]((1,6,12),(1,2,4),(1,10,11),(1,10,12),(1,2,3)); lvl=1; h,r-ind=4,1
    [4,3]((1,3,5),(1,2,4),(1,4,8),(2,9,16)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,5),(1,4,7),(1,2,4),(1,3,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,7),(1,3,6),(2,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(1,3,6),(2,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(1,4,7),(2,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(1,3,5),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(1,4,8),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(2,9,16),(1,4,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,12),(2,12,19),(1,4,8),(2,9,16)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,9),(4,21,35),(2,9,16)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,4,8),(1,5,9),(2,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,10),(1,5,9)); lvl=3; h,r-ind=1,1
```

```
  [4,3]((1,5,9),(1,6,10),(2,12,19),(4,21,35)); lvl=3; h,r-ind=1,1
    [4,3]((4,22,37),(2,11,18),(1,6,10),(2,12,19)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,6,10),(2,12,19),(3,17,28)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,18),(2,12,19),(3,17,28)); lvl=5; h,r-ind=1,1
      [3,3]((4,22,37),(1,6,10),(3,17,28)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,18),(4,22,37),(3,17,28)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,9),(4,22,37),(2,11,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,9),(2,11,18),(4,21,35)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,9),(4,22,37),(1,6,10)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,9),(1,6,10),(2,12,21)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,10),(1,6,12),(1,5,9),(2,12,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,9),(1,6,11),(3,16,30)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,10),(1,6,12),(1,6,11),(3,16,30)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,6,12),(2,11,21),(1,6,11)); lvl=5; h,r-ind=1,1
      [3,3]((3,16,30),(2,11,21),(1,6,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(3,16,30),(2,11,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(1,6,12),(2,11,21)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,9),(1,5,10),(3,16,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,9),(2,12,21),(1,6,11)); lvl=4; h,r-ind=1,1
[4,3]((2,12,19),(1,3,5),(1,6,8),(2,9,16)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc
  [4,3]((2,9,13),(1,4,7),(1,3,5),(1,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(1,3,5),(3,13,21),(1,4,7)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,8,13),(1,3,5),(1,4,7)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,21),(2,8,13),(1,4,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(3,13,21),(2,8,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(2,8,13),(1,3,5)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,8),(3,13,21),(1,4,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(1,4,6),(3,13,21)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,13),(1,5,8),(1,4,6)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,9),(2,9,13),(1,6,8),(1,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(1,5,7),(2,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((3,16,24),(1,5,8),(1,5,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,9),(3,16,24),(1,6,8),(1,5,7)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,11,16),(1,5,7),(3,16,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(2,11,16),(3,16,24)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,16),(1,6,8),(1,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(2,11,16),(1,6,8)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,9),(3,16,24),(1,5,8)); lvl=4; h,r-ind=1,1
  [4,3]((2,12,19),(4,21,35),(1,6,9),(1,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,18),(1,5,8),(4,21,35)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,18),(4,22,35),(1,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((4,22,35),(1,6,9),(1,5,8)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,18),(2,12,19),(4,22,35),(1,6,9)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,6,9),(3,17,27),(2,12,19)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,18),(3,17,27),(2,12,19)); lvl=5; h,r-ind=1,1
      [3,3]((4,22,35),(1,6,9),(3,17,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,18),(4,22,35),(3,17,27)); lvl=5; h,r-ind=1,1
  [4,3]((4,21,35),(2,9,16),(1,4,7),(1,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((2,10,17),(2,9,16),(4,19,32),(1,4,7)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,14,24),(1,4,7),(2,9,16)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,17),(3,14,24),(2,9,16)); lvl=5; h,r-ind=1,1
      [3,3]((4,19,32),(3,14,24),(1,4,7)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,17),(4,19,32),(3,14,24)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,8),(4,19,32),(1,4,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(2,10,17),(4,19,32)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(2,10,17),(4,21,35)); lvl=4; h,r-ind=1,1
[4,3]((2,15,22),(2,12,19),(1,9,11),(1,6,8)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc
  [4,3]((1,7,10),(1,6,9),(1,6,8),(2,15,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,9),(1,6,9),(1,6,8),(3,20,28)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,6,8),(2,13,18),(1,6,9)); lvl=5; h,r-ind=1,1
      [3,3]((3,20,28),(2,13,18),(1,6,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(3,20,28),(2,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(1,6,8),(2,13,18)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,10),(1,7,9),(3,20,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(1,7,9),(2,15,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(1,6,9),(3,20,28)); lvl=4; h,r-ind=1,1
  [4,3]((1,8,11),(1,9,11),(1,7,10),(2,15,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,10),(1,8,10),(3,23,31)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,11),(1,9,11),(1,8,10),(3,23,31)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,16,21),(1,9,11),(1,8,10)); lvl=5; h,r-ind=1,1
      [3,3]((3,23,31),(2,16,21),(1,8,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,11),(3,23,31),(2,16,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,11),(2,16,21),(1,9,11)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,10),(1,8,11),(3,23,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(2,15,19),(1,8,10)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,10),(4,27,41),(1,6,9),(2,12,19)); lvl=3; h,r-ind=1,1
    [4,3]((4,26,39),(2,13,20),(1,6,9),(2,12,19)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,19,29),(1,6,9),(2,12,19)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,29),(2,13,20),(2,12,19)); lvl=5; h,r-ind=1,1
      [3,3]((4,26,39),(3,19,29),(2,13,20)); lvl=5; h,r-ind=1,1
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        [3,3]((4,26,39),(3,19,29),(1,6,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,10),(4,26,39),(1,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,10),(4,26,39),(2,13,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,10),(4,27,41),(2,13,20)); lvl=4; h,r-ind=1,1
    [4,3]((2,15,22),(1,8,11),(1,7,10),(4,27,41)); lvl=3; h,r-ind=1,1
      [3,3]((4,29,42),(1,7,10),(1,8,11)); lvl=4; h,r-ind=1,1
      [4,3]((2,15,22),(2,14,21),(4,29,42),(1,8,11)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,22,32),(4,29,42),(2,14,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,22),(3,22,32),(2,14,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,11),(2,15,22),(3,22,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,11),(3,22,32),(4,29,42)); lvl=5; h,r-ind=1,1
      [3,3]((2,14,21),(4,29,42),(1,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,27,41),(2,14,21),(1,7,10)); lvl=4; h,r-ind=1,1
  [3,3]((1,10,12),(1,9,11),(1,10,11)); lvl=2; h,r-ind=1,1
  [4,3]((1,8,12),(2,15,22),(1,10,12),(1,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,9,12),(1,10,12),(1,8,11),(1,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,10,12),(1,9,11),(2,18,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,11),(1,9,11),(2,18,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,12),(1,10,12),(2,18,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,11),(1,9,12),(2,18,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,12),(1,9,12),(1,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,12),(1,8,11),(2,15,22)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,12),(1,8,12),(2,15,22),(2,12,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,7,11),(1,8,12),(2,15,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,11),(4,27,41),(2,15,22)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,12,19),(1,6,10),(1,7,11),(4,27,41)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,10),(4,26,41),(1,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,20),(4,26,41),(1,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,20),(4,27,41),(1,7,11)); lvl=4; h,r-ind=1,1
      [4,3]((2,12,19),(2,13,20),(1,6,10),(4,26,41)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,19,30),(2,13,20),(4,26,41)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(3,19,30),(4,26,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,19),(1,6,10),(3,19,30)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,19),(3,19,30),(2,13,20)); lvl=5; h,r-ind=1,1
    [3,3]((2,12,21),(1,6,10),(1,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,12),(1,7,11),(1,8,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,12),(1,7,12),(2,12,21),(1,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,12),(1,7,11),(3,20,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(1,7,11),(3,20,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(2,12,21),(1,7,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,12),(1,6,11),(1,7,12),(3,20,34)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,6,11),(3,20,34),(2,13,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,12),(3,20,34),(2,13,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,12),(1,7,12),(2,13,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,12),(1,6,11),(2,13,23)); lvl=5; h,r-ind=1,1
  [4,3]((1,2,3),(1,3,5),(1,6,8),(1,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(1,6,7),(2,9,13),(1,6,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,7),(1,6,7),(1,5,6),(1,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(1,6,7),(2,11,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(1,6,7),(2,11,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(1,5,6),(2,11,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(1,5,7),(2,11,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,7),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,13),(1,5,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(1,4,5),(1,3,5),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,4,5),(2,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,6),(1,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(1,3,4),(1,3,5),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,6),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(1,4,6),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(1,2,3),(2,6,9)); lvl=5; h,r-ind=1,1
  [4,3]((1,9,11),(1,10,11),(1,6,8),(1,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,15,19),(1,8,9),(1,6,8),(1,6,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,9),(1,6,8),(1,6,7),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(1,6,7),(2,13,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(1,6,7),(2,13,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(1,7,8),(2,13,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(1,6,8),(2,13,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,9),(1,7,9),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,9),(2,15,19),(1,7,9)); lvl=4; h,r-ind=1,1
    [4,3]((1,9,11),(2,15,19),(1,10,11),(1,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,10),(1,8,9),(2,15,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,10),(1,9,10),(1,8,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,11),(1,8,10),(1,10,11),(1,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,10),(1,9,10),(2,18,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,11),(1,9,10),(2,18,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,11),(1,10,11),(2,18,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,11),(1,8,10),(2,18,21)); lvl=5; h,r-ind=1,1
  [3,3]((1,2,3),(1,3,5),(1,2,4)); lvl=2; h,r-ind=1,1
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[3,3]((1,0,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((1,10,22),(1,6,12),(1,10,12)); lvl=1; h,r-ind=40,20; alert-h-inc
  [4,3]((1,10,17),(1,10,22),(1,8,15),(1,8,16)); lvl=2; h,r-ind=2,1
    [4,3]((1,9,19),(2,17,33),(2,18,35),(1,8,16)); lvl=3; h,r-ind=1,1
      [4,3]((1,9,18),(4,34,67),(2,17,33),(2,18,35)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,26,51),(4,34,67),(2,17,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,35),(3,26,51),(2,17,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,18),(2,18,35),(3,26,51)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,18),(3,26,51),(4,34,67)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,16),(1,9,18),(4,34,67)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,16),(1,9,19),(1,9,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,16),(4,34,67),(2,17,33)); lvl=4; h,r-ind=1,1
    [4,3]((1,10,22),(2,20,39),(1,9,19),(2,18,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,19,37),(1,9,18),(2,18,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,19,37),(1,10,20),(1,9,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,10,20),(2,20,41),(1,9,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,10,22),(2,20,41),(1,9,19),(1,9,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,28,58),(1,9,18),(1,9,19)); lvl=5; h,r-ind=1,1
        [4,3]((1,10,22),(3,28,58),(1,10,21),(1,9,19)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,19,40),(3,28,58),(1,10,21)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,22),(2,19,40),(1,10,21)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,19),(2,19,40),(3,28,58)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,22),(1,9,19),(2,19,40)); lvl=6; h,r-ind=1,1
        [3,3]((3,28,58),(1,10,21),(1,9,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,21),(2,20,41),(1,9,18)); lvl=5; h,r-ind=1,1
      [3,3]((2,19,37),(2,20,39),(1,10,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,9,16),(1,10,17),(2,20,39),(2,18,35)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,17),(1,10,19),(2,20,37)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,16),(1,9,17),(1,10,17),(2,20,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,17),(1,10,18),(3,28,51)); lvl=5; h,r-ind=1,1
        [4,3]((1,9,16),(1,10,17),(1,10,18),(3,28,51)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((1,10,17),(2,19,34),(1,10,18)); lvl=6; h,r-ind=1,1
          [3,3]((3,28,51),(2,19,34),(1,10,18)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,16),(1,10,17),(2,19,34)); lvl=6; h,r-ind=1,1
          [3,3]((3,28,51),(1,9,16),(2,19,34)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(1,9,16),(3,28,51)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,17),(2,20,37),(1,10,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,17),(2,19,37),(1,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,19,37),(2,20,39),(1,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,17),(2,19,37),(2,18,35)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,15),(2,17,33),(1,8,16)); lvl=3; h,r-ind=1,1
    [4,3]((1,9,16),(1,8,15),(2,17,33),(2,18,35)); lvl=3; h,r-ind=1,1
      [3,3]((4,34,65),(2,17,33),(1,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,17),(4,34,65),(1,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,17),(1,9,16),(1,8,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,17),(4,34,65),(2,18,35),(2,17,33)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,26,50),(4,34,65),(2,17,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,35),(3,26,50),(2,17,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,17),(2,18,35),(3,26,50)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,17),(3,26,50),(4,34,65)); lvl=5; h,r-ind=1,1
  [3,3]((1,6,12),(1,8,15),(1,8,16)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,10,22),(1,8,17),(1,8,16)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,6,12),(1,8,17),(1,8,16)); lvl=2; h,r-ind=2,2; optimized-h
  [4,3]((1,10,12),(1,10,17),(1,8,12),(1,8,15)); lvl=2; h,r-ind=2,1
    [4,3]((1,9,14),(1,9,12),(1,8,12),(2,16,27)); lvl=3; h,r-ind=1,1
      [4,3]((1,9,13),(1,8,13),(1,9,12),(1,8,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,13),(1,8,12),(2,17,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,12),(1,8,12),(2,17,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,13),(1,8,13),(2,17,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,12),(1,9,13),(2,17,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,14),(1,9,13),(1,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,14),(2,16,27),(1,8,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,9,14),(1,9,16),(1,8,15),(2,16,27)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,14),(1,9,15),(1,9,16),(1,8,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,15),(1,9,16),(2,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,15),(1,9,16),(2,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(1,9,15),(2,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,15),(1,8,14),(2,17,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,14),(1,8,14),(1,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,14),(2,16,27),(1,8,14)); lvl=4; h,r-ind=1,1
    [4,3]((2,20,29),(1,9,14),(1,10,17),(1,9,16)); lvl=3; h,r-ind=1,1
      [4,3]((1,10,17),(2,20,31),(1,9,16),(1,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,16),(1,9,15),(3,28,47)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,16),(1,9,15),(3,28,47)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,16),(2,20,31),(1,9,15)); lvl=5; h,r-ind=1,1
        [4,3]((1,10,17),(1,10,16),(1,9,16),(3,28,47)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,19,32),(1,10,16),(3,28,47)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,16),(2,19,32),(3,28,47)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,17),(2,19,32),(1,10,16)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,16),(1,10,17),(2,19,32)); lvl=6; h,r-ind=1,1
```

```
        [4,3]((1,10,15),(2,20,31),(1,9,14),(1,9,15)); lvl=4; h,r-ind=1,1
          [3,3]((1,9,15),(1,9,14),(2,19,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,10,15),(1,9,14),(2,19,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,20,31),(1,10,15),(2,19,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,20,31),(1,9,15),(2,19,30)); lvl=5; h,r-ind=1,1
        [3,3]((2,20,29),(1,10,15),(1,9,14)); lvl=4; h,r-ind=1,1
      [4,3]((2,20,29),(1,10,12),(1,9,14),(1,9,12)); lvl=3; h,r-ind=1,1
        [4,3]((2,20,27),(1,10,12),(1,9,13),(1,9,12)); lvl=4; h,r-ind=1,1
          [3,3]((3,28,38),(1,9,13),(1,9,12)); lvl=5; h,r-ind=1,1
          [4,3]((1,10,13),(1,10,12),(3,28,38),(1,9,12)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((1,10,12),(1,9,12),(2,19,25)); lvl=6; h,r-ind=1,1
            [3,3]((3,28,38),(1,9,12),(2,19,25)); lvl=6; h,r-ind=1,1
            [3,3]((1,10,13),(3,28,38),(2,19,25)); lvl=6; h,r-ind=1,1
            [3,3]((1,10,13),(1,10,12),(2,19,25)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,13),(3,28,38),(1,9,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,20,27),(1,10,13),(1,9,13)); lvl=5; h,r-ind=1,1
        [4,3]((1,10,14),(2,20,27),(1,9,14),(1,9,13)); lvl=4; h,r-ind=1,1
          [3,3]((1,9,14),(1,9,13),(2,19,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,20,27),(1,9,13),(2,19,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,10,14),(1,9,14),(2,19,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,20,27),(1,10,14),(2,19,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,20,29),(1,10,14),(1,9,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,12),(1,8,12),(1,8,15)); lvl=2; h,r-ind=6,6; optimized-h
  [3,3]((0,1,0),(1,10,22),(1,10,12)); lvl=1; h,r-ind=10,10; optimized-h
  [4,3]((1,10,22),(1,5,11),(1,6,12),(1,2,4)); lvl=1; h,r-ind=2,2
    [3,3]((1,6,13),(1,5,11),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,8),(2,13,28),(1,6,13),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,13,28),(1,6,13),(3,16,34)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,4),(1,3,6),(1,6,13),(3,16,34)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,19),(1,3,6),(3,16,34)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,19),(1,6,13),(3,16,34)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(2,9,19),(1,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(2,9,19),(1,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,3,6),(3,16,34)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,4,8),(2,13,28),(3,16,34)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,6,12),(1,8,17),(1,4,8),(2,13,28)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,8),(1,7,15),(2,13,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,10),(1,4,8),(1,7,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,12),(1,5,10),(1,8,17),(1,7,15)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,10),(1,7,15),(2,13,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,17),(1,7,15),(2,13,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(1,5,10),(2,13,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,17),(1,6,12),(2,13,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,10,22),(1,8,17),(2,13,28)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,10,22),(2,13,28),(1,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,10,22),(1,6,13),(1,5,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,5,11),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,0,0),(0,1,0),(1,10,11),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(1,6,7),(1,1,1),(2,11,11)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,11),(1,5,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,5),(2,7,7),(1,6,7),(1,5,5)); lvl=3; h,r-ind=1,1
        [4,3]((1,6,7),(1,5,6),(1,5,5),(1,4,4)); lvl=4; h,r-ind=1,1
          [3,3]((1,5,6),(1,4,4),(2,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(1,4,4),(2,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(1,5,6),(2,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(1,6,7),(2,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(1,5,6),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,7),(1,4,4)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(1,4,5),(2,7,7),(1,1,1)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,5),(1,3,3),(2,7,7)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,4),(2,5,5),(1,4,5),(1,3,3)); lvl=4; h,r-ind=1,1
          [3,3]((2,6,7),(1,3,3),(2,5,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(2,6,7),(2,5,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,7),(1,4,5),(1,3,3)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(2,6,7),(1,4,5)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,3),(1,3,4),(1,1,1),(2,5,5)); lvl=4; h,r-ind=1,1
          [3,3]((1,2,2),(1,3,4),(2,5,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(3,7,9),(1,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(3,7,9),(1,3,4)); lvl=5; h,r-ind=1,1
          [4,3]((1,2,3),(1,2,2),(1,1,1),(3,7,9)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,4,5),(1,2,2),(1,1,1)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,3),(2,4,5),(1,1,1)); lvl=6; h,r-ind=1,1
            [3,3]((3,7,9),(2,4,5),(1,2,2)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,3),(3,7,9),(2,4,5)); lvl=6; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,11,11)); lvl=2; h,r-ind=9,9; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,10,11),(1,6,7),(2,11,11)); lvl=2; h,r-ind=1,1
      [4,3]((1,8,8),(1,6,6),(1,6,7),(1,8,9)); lvl=3; h,r-ind=2,1; alert-h-inc
        [4,3]((1,7,7),(1,7,8),(1,6,6),(1,6,7)); lvl=4; h,r-ind=1,1
          [3,3]((1,6,6),(1,6,7),(2,13,14)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((1,7,8),(1,6,7),(2,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(1,7,8),(2,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(1,6,6),(2,13,14)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,8),(1,7,7),(1,8,9),(1,7,8)); lvl=4; h,r-ind=1,1
          [3,3]((1,7,7),(1,7,8),(2,15,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(1,7,8),(2,15,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,8),(1,8,9),(2,15,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,8),(1,7,7),(2,15,16)); lvl=5; h,r-ind=1,1
      [4,3]((0,1,0),(1,10,11),(1,8,8),(1,8,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,9,9),(1,8,8),(1,8,9)); lvl=4; h,r-ind=1,1
        [4,3]((2,19,19),(1,9,9),(1,9,10),(1,8,9)); lvl=4; h,r-ind=1,1
          [3,3]((2,18,19),(1,8,9),(1,9,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,19,19),(2,18,19),(1,9,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,18,19),(1,9,10),(1,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,19,19),(2,18,19),(1,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(2,19,19),(1,9,9)); lvl=4; h,r-ind=1,1
        [4,3]((0,1,0),(2,19,19),(1,10,11),(1,9,10)); lvl=4; h,r-ind=1,1
          [3,3]((1,10,10),(2,19,19),(1,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,10,11),(1,10,10),(1,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(1,10,11),(1,10,10)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(1,10,10),(2,19,19)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(1,9,9),(1,8,8)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,8),(1,6,6)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,11,11),(1,6,6),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,11,11),(1,6,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,10,11),(1,10,12)); lvl=1; h,r-ind=1,1
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22.17 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,11,22)); lvl=0; h,r-ind=22,44
  [3,3]((1,11,22),(1,11,11),(2,11,22)); lvl=1; h,r-ind=121,11; alert-h-inc
    [5,3]((1,6,11),(1,6,12),(1,8,13),(1,8,14),(4,33,55)); lvl=2; h,r-ind=1,1
      [3,3]((2,16,27),(4,33,55),(1,8,14)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,13),(4,29,51),(2,16,27),(1,8,14)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,13),(4,29,51),(2,15,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,13),(4,30,53),(2,15,26)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,14),(4,30,53),(2,16,27),(2,15,26)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,23,40),(4,30,53),(2,15,26)); lvl=5; h,r-ind=1,1
          [3,3]((2,16,27),(3,23,40),(2,15,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,14),(2,16,27),(3,23,40)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,14),(3,23,40),(4,30,53)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(1,7,13),(4,30,53)); lvl=4; h,r-ind=1,1
      [5,3]((1,6,11),(1,7,12),(1,6,12),(1,7,13),(4,29,51)); lvl=3; h,r-ind=1,1
        [3,3]((2,14,25),(1,7,13),(4,29,51)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,12),(2,14,25),(4,29,51)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,12),(1,6,11),(3,20,36)); lvl=4; h,r-ind=1,1
        [4,3]((3,20,37),(4,27,49),(2,14,25),(1,7,13)); lvl=4; h,r-ind=1,1
          [3,3]((5,34,62),(2,14,25),(4,27,49)); lvl=5; h,r-ind=1,1
          [3,3]((3,20,37),(5,34,62),(4,27,49)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,13),(3,20,37),(5,34,62)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,13),(5,34,62),(2,14,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,12),(3,20,37),(1,7,13)); lvl=4; h,r-ind=1,1
        [5,3]((1,6,11),(1,6,12),(3,20,36),(3,20,37),(4,27,49)); lvl=4; h,r-ind=1,1
          [3,3]((2,13,24),(4,27,49),(3,20,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(2,13,24),(3,20,36)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,24),(3,20,37),(4,27,49)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,12),(2,13,24),(3,20,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(1,6,12),(2,13,24)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,12),(3,20,36),(4,27,49),(2,14,25)); lvl=4; h,r-ind=1,1
          [3,3]((3,20,36),(4,27,49),(5,34,61)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,25),(4,27,49),(5,34,61)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,12),(3,20,36),(5,34,61)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,25),(1,7,12),(5,34,61)); lvl=5; h,r-ind=1,1
      [3,3]((2,16,27),(1,8,13),(4,33,55)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,12),(4,29,51),(2,16,27),(1,8,13)); lvl=3; h,r-ind=1,1
        [4,3]((1,8,13),(2,16,27),(2,15,26),(4,30,51)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,16,27),(3,23,39),(2,15,26)); lvl=5; h,r-ind=1,1
          [3,3]((4,30,51),(3,23,39),(2,15,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,13),(4,30,51),(3,23,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,13),(2,16,27),(3,23,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,12),(2,15,26),(4,30,51)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,12),(4,29,51),(2,15,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,12),(1,8,13),(4,30,51)); lvl=4; h,r-ind=1,1
    [5,3]((1,11,22),(2,22,33),(1,8,16),(1,8,14),(4,33,55)); lvl=2; h,r-ind=1,1
      [4,3]((2,19,31),(2,17,28),(2,19,30),(2,17,29)); lvl=3; h,r-ind=4,2; alert-h-inc; alert-r-inc
        [3,3]((1,9,15),(2,17,28),(2,18,29)); lvl=4; h,r-ind=1,1
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  [3,3]((1,9,15),(2,19,30),(2,18,29)); lvl=4; h,r-ind=1,1
  [3,3]((2,19,31),(1,9,15),(2,19,30)); lvl=4; h,r-ind=1,1
  [3,3]((1,9,15),(2,17,29),(2,17,28)); lvl=4; h,r-ind=1,1
[4,3]((4,38,67),(4,34,61),(2,19,31),(2,17,29)); lvl=3; h,r-ind=4,1; alert-h-inc
  [3,3]((1,9,16),(2,17,30),(4,34,61)); lvl=4; h,r-ind=1,1
  [3,3]((1,9,16),(2,18,31),(2,17,30)); lvl=4; h,r-ind=1,1
  [4,3]((2,18,31),(1,9,15),(2,17,29),(2,17,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,15),(3,26,45),(2,17,29)); lvl=5; h,r-ind=1,1
    [3,3]((2,17,30),(3,26,45),(2,17,29)); lvl=5; h,r-ind=1,1
    [3,3]((2,18,31),(1,9,15),(3,26,45)); lvl=5; h,r-ind=1,1
    [3,3]((2,17,30),(2,18,31),(3,26,45)); lvl=5; h,r-ind=1,1
  [6,3]((4,38,65),(4,37,64),(5,47,81),(2,18,31),(1,9,15),(2,19,31)); lvl=4; h,r-ind=1,1
    [4,3]((4,37,63),(1,9,15),(2,19,32),(2,19,31)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,28,47),(2,19,32),(2,19,31)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,15),(3,28,47),(2,19,31)); lvl=6; h,r-ind=1,1
      [3,3]((4,37,63),(3,28,47),(2,19,32)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,15),(4,37,63),(3,28,47)); lvl=6; h,r-ind=1,1
    [3,3]((3,28,48),(4,37,63),(2,19,32)); lvl=5; h,r-ind=1,1
    [3,3]((4,38,65),(3,28,48),(2,19,32)); lvl=5; h,r-ind=1,1
    [3,3]((5,47,81),(4,38,65),(3,28,48)); lvl=5; h,r-ind=1,1
    [3,3]((4,37,64),(5,47,81),(3,28,48)); lvl=5; h,r-ind=1,1
    [3,3]((2,18,31),(4,37,63),(1,9,15)); lvl=5; h,r-ind=1,1
    [3,3]((3,28,48),(2,18,31),(4,37,63)); lvl=5; h,r-ind=1,1
    [3,3]((4,37,64),(3,28,48),(2,18,31)); lvl=5; h,r-ind=1,1
  [3,3]((2,19,33),(4,38,65),(5,47,81)); lvl=4; h,r-ind=1,1
  [3,3]((1,9,16),(4,37,64),(2,18,31)); lvl=4; h,r-ind=1,1
  [4,3]((2,19,33),(1,9,16),(4,37,64),(5,47,81)); lvl=4; h,r-ind=1,1
    [3,3]((6,56,97),(4,37,64),(1,9,16)); lvl=5; h,r-ind=1,1
    [3,3]((2,19,33),(6,56,97),(1,9,16)); lvl=5; h,r-ind=1,1
    [3,3]((5,47,81),(6,56,97),(4,37,64)); lvl=5; h,r-ind=1,1
    [3,3]((2,19,33),(5,47,81),(6,56,97)); lvl=5; h,r-ind=1,1
  [3,3]((2,19,33),(4,38,67),(1,9,16)); lvl=4; h,r-ind=1,1
[4,3]((1,11,19),(1,11,17),(4,38,67),(2,19,31)); lvl=3; h,r-ind=3,1; alert-h-inc
  [4,3]((1,10,17),(1,10,16),(2,19,31),(4,38,65)); lvl=4; h,r-ind=1,1
    [4,3]((2,19,32),(1,10,16),(2,19,31),(4,39,65)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((1,10,16),(2,19,31),(3,29,48)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,32),(2,19,31),(3,29,48)); lvl=6; h,r-ind=1,1
      [3,3]((4,39,65),(1,10,16),(3,29,48)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,32),(4,39,65),(3,29,48)); lvl=6; h,r-ind=1,1
    [3,3]((1,10,17),(2,19,32),(4,39,65)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,17),(2,19,32),(4,38,65)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,17),(1,10,16),(4,39,65)); lvl=5; h,r-ind=1,1
  [3,3]((1,10,17),(2,19,33),(4,38,65)); lvl=4; h,r-ind=1,1
  [4,3]((5,49,86),(1,10,17),(4,38,67),(2,19,33)); lvl=4; h,r-ind=1,1
    [4,3]((3,29,51),(6,58,101),(4,38,67),(2,19,33)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((5,48,84),(2,19,33),(4,38,67)); lvl=6; h,r-ind=1,1
      [3,3]((3,29,51),(5,48,84),(4,38,67)); lvl=6; h,r-ind=1,1
      [3,3]((5,48,84),(6,58,101),(2,19,33)); lvl=6; h,r-ind=1,1
      [3,3]((3,29,51),(5,48,84),(6,58,101)); lvl=6; h,r-ind=1,1
    [3,3]((1,10,17),(6,58,101),(2,19,33)); lvl=5; h,r-ind=1,1
    [3,3]((3,29,51),(1,10,17),(6,58,101)); lvl=5; h,r-ind=1,1
    [3,3]((5,49,86),(3,29,51),(1,10,17)); lvl=5; h,r-ind=1,1
  [3,3]((1,11,19),(5,49,86),(1,10,17)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
  [4,3]((1,10,17),(1,11,17),(1,11,18),(1,10,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,11,18),(1,11,17),(2,21,34)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,16),(1,11,17),(2,21,34)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,17),(1,11,18),(2,21,34)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,16),(1,10,17),(2,21,34)); lvl=5; h,r-ind=1,1
  [3,3]((1,11,19),(1,10,17),(1,11,18)); lvl=4; h,r-ind=1,1
[5,3]((1,8,15),(1,8,16),(2,19,38),(4,38,67),(4,34,61)); lvl=3; h,r-ind=1,1
  [4,3]((1,8,15),(2,17,32),(3,26,48),(4,35,65)); lvl=4; h,r-ind=1,1
    [3,3]((2,17,32),(4,35,65),(5,43,80)); lvl=5; h,r-ind=1,1
    [3,3]((3,26,48),(4,35,65),(5,43,80)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,15),(2,17,32),(5,43,80)); lvl=5; h,r-ind=1,1
    [3,3]((3,26,48),(1,8,15),(5,43,80)); lvl=5; h,r-ind=1,1
  [4,3]((1,9,16),(3,27,50),(3,26,48),(4,35,65)); lvl=4; h,r-ind=1,1
    [4,3]((2,18,33),(9,79,146),(3,27,50),(4,35,65)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((4,35,65),(9,79,146),(6,53,98)); lvl=6; h,r-ind=1,1
      [3,3]((2,18,33),(9,79,146),(6,53,98)); lvl=6; h,r-ind=1,1
      [3,3]((3,27,50),(4,35,65),(6,53,98)); lvl=6; h,r-ind=1,1
      [3,3]((2,18,33),(3,27,50),(6,53,98)); lvl=6; h,r-ind=1,1
    [3,3]((3,26,48),(9,79,146),(4,35,65)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,16),(2,18,33),(3,26,48),(9,79,146)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((5,44,81),(2,18,33),(9,79,146)); lvl=6; h,r-ind=1,1
      [3,3]((3,26,48),(5,44,81),(9,79,146)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,16),(5,44,81),(2,18,33)); lvl=6; h,r-ind=1,1
      [3,3]((3,26,48),(1,9,16),(5,44,81)); lvl=6; h,r-ind=1,1
  [3,3]((1,8,15),(1,9,16),(3,26,48)); lvl=4; h,r-ind=1,1
  [3,3]((1,8,15),(1,9,16),(4,34,61)); lvl=4; h,r-ind=1,1
  [4,3]((1,9,16),(3,27,50),(5,46,85),(2,19,34)); lvl=4; h,r-ind=1,1
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      [4,3]((3,27,50),(2,18,33),(5,46,85),(7,65,119)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,33),(4,37,68),(9,82,151)); lvl=6; h,r-ind=1,1
        [4,3]((3,27,50),(5,46,85),(4,37,68),(9,82,151)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((7,64,118),(5,46,85),(4,37,68)); lvl=7; h,r-ind=1,1
          [3,3]((9,82,151),(7,64,118),(4,37,68)); lvl=7; h,r-ind=1,1
          [3,3]((3,27,50),(9,82,151),(7,64,118)); lvl=7; h,r-ind=1,1
          [3,3]((3,27,50),(7,64,118),(5,46,85)); lvl=7; h,r-ind=1,1
        [3,3]((3,27,50),(2,18,33),(9,82,151)); lvl=6; h,r-ind=1,1
        [3,3]((2,18,33),(7,65,119),(4,37,68)); lvl=6; h,r-ind=1,1
      [4,3]((1,9,16),(2,19,34),(2,18,33),(7,65,119)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,33),(3,28,51),(6,55,100)); lvl=6; h,r-ind=1,1
        [4,3]((1,9,16),(2,19,34),(3,28,51),(6,55,100)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((2,19,34),(4,37,67),(3,28,51)); lvl=7; h,r-ind=1,1
          [3,3]((6,55,100),(4,37,67),(3,28,51)); lvl=7; h,r-ind=1,1
          [3,3]((1,9,16),(2,19,34),(4,37,67)); lvl=7; h,r-ind=1,1
          [3,3]((6,55,100),(1,9,16),(4,37,67)); lvl=7; h,r-ind=1,1
        [3,3]((2,18,33),(1,9,16),(6,55,100)); lvl=6; h,r-ind=1,1
        [3,3]((2,18,33),(7,65,119),(3,28,51)); lvl=6; h,r-ind=1,1
    [3,3]((4,38,71),(5,46,85),(2,19,34)); lvl=4; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,9,16),(2,19,34),(4,38,67)); lvl=4; h,r-ind=1,1
    [5,3]((1,9,18),(3,27,50),(1,8,16),(2,17,32),(4,35,65)); lvl=4; h,r-ind=1,1
      [3,3]((7,61,114),(2,17,32),(4,35,65)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,17),(3,27,50),(7,61,114),(4,35,65)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,27,50),(5,44,82),(4,35,65)); lvl=6; h,r-ind=1,1
        [3,3]((7,61,114),(5,44,82),(4,35,65)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(7,61,114),(5,44,82)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(3,27,50),(5,44,82)); lvl=6; h,r-ind=1,1
      [4,3]((1,9,17),(4,34,65),(7,61,114),(2,17,32)); lvl=5; h,r-ind=1,1
        [3,3]((3,26,49),(2,17,32),(4,34,65)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(3,26,49),(4,34,65)); lvl=6; h,r-ind=1,1
        [3,3]((7,61,114),(3,26,49),(2,17,32)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(7,61,114),(3,26,49)); lvl=6; h,r-ind=1,1
      [3,3]((4,34,65),(1,8,16),(2,17,32)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,17),(4,34,65),(1,8,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,18),(1,9,17),(1,8,16)); lvl=5; h,r-ind=1,1
    [5,3]((1,9,18),(2,19,38),(4,38,71),(3,27,50),(5,46,85)); lvl=4; h,r-ind=1,1
      [4,3]((3,27,50),(1,9,17),(3,28,52),(5,46,85)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,17),(3,28,52),(6,55,102)); lvl=6; h,r-ind=1,1
        [3,3]((5,46,85),(3,28,52),(6,55,102)); lvl=6; h,r-ind=1,1
        [3,3]((3,27,50),(5,46,85),(6,55,102)); lvl=6; h,r-ind=1,1
        [3,3]((3,27,50),(1,9,17),(6,55,102)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,36),(1,9,17),(3,28,52)); lvl=5; h,r-ind=1,1
      [3,3]((2,19,36),(4,38,71),(3,28,52)); lvl=5; h,r-ind=1,1
      [3,3]((2,19,36),(4,38,73),(1,9,17)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,18),(2,19,38),(4,38,73),(1,9,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,17),(2,19,37),(4,37,72)); lvl=6; h,r-ind=1,1
        [4,3]((1,9,18),(2,19,38),(2,19,37),(4,37,72)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((2,19,38),(3,28,55),(2,19,37)); lvl=7; h,r-ind=1,1
          [3,3]((4,37,72),(3,28,55),(2,19,37)); lvl=7; h,r-ind=1,1
          [3,3]((1,9,18),(4,37,72),(3,28,55)); lvl=7; h,r-ind=1,1
          [3,3]((1,9,18),(2,19,38),(3,28,55)); lvl=7; h,r-ind=1,1
        [3,3]((1,9,17),(1,9,18),(4,37,72)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(4,38,73),(2,19,37)); lvl=6; h,r-ind=1,1
  [3,3]((1,8,15),(1,8,16),(2,17,32)); lvl=4; h,r-ind=1,1
[4,3]((1,11,22),(1,11,19),(2,19,38),(4,38,67)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc
  [4,3]((5,49,86),(1,10,18),(4,38,67),(2,19,34)); lvl=4; h,r-ind=1,1
    [4,3]((3,29,51),(4,38,67),(2,19,34),(6,58,103)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((4,38,67),(5,48,85),(2,19,34)); lvl=6; h,r-ind=1,1
      [3,3]((6,58,103),(5,48,85),(2,19,34)); lvl=6; h,r-ind=1,1
      [3,3]((3,29,51),(6,58,103),(5,48,85)); lvl=6; h,r-ind=1,1
      [3,3]((3,29,51),(4,38,67),(5,48,85)); lvl=6; h,r-ind=1,1
    [3,3]((1,10,18),(2,19,34),(6,58,103)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,18),(3,29,51),(6,58,103)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,18),(5,49,86),(3,29,51)); lvl=5; h,r-ind=1,1
  [4,3]((2,20,37),(4,38,71),(1,10,18),(2,19,34)); lvl=4; h,r-ind=1,1
    [4,3]((1,10,18),(7,68,125),(2,19,34),(2,19,35)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((2,19,34),(3,29,53),(2,19,35)); lvl=6; h,r-ind=1,1
      [3,3]((7,68,125),(3,29,53),(2,19,35)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,18),(2,19,34),(3,29,53)); lvl=6; h,r-ind=1,1
      [3,3]((7,68,125),(1,10,18),(3,29,53)); lvl=6; h,r-ind=1,1
    [4,3]((4,39,72),(7,68,125),(3,29,54),(2,19,35)); lvl=5; h,r-ind=1,1
      [3,3]((6,58,107),(2,19,35),(7,68,125)); lvl=6; h,r-ind=1,1
      [3,3]((4,39,72),(6,58,107),(7,68,125)); lvl=6; h,r-ind=1,1
      [3,3]((4,39,72),(6,58,107),(3,29,54)); lvl=6; h,r-ind=1,1
      [3,3]((6,58,107),(3,29,54),(2,19,35)); lvl=6; h,r-ind=1,1
    [3,3]((3,29,54),(4,38,71),(2,19,35)); lvl=5; h,r-ind=1,1
    [3,3]((2,20,37),(4,39,72),(3,29,54)); lvl=5; h,r-ind=1,1
    [4,3]((2,20,37),(4,39,72),(1,10,18),(7,68,125)); lvl=5; h,r-ind=1,1
      [3,3]((5,49,90),(4,39,72),(7,68,125)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,18),(5,49,90),(7,68,125)); lvl=6; h,r-ind=1,1
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          [3,3]((2,20,37),(5,49,90),(4,39,72)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,18),(2,20,37),(5,49,90)); lvl=6; h,r-ind=1,1
      [4,3]((1,11,19),(2,22,41),(2,20,37),(1,10,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,21,39),(3,31,57),(2,20,37)); lvl=5; h,r-ind=1,1
        [4,3]((1,10,18),(5,52,95),(3,31,57),(2,20,37)); lvl=5; h,r-ind=1,1
          [3,3]((4,41,75),(5,52,95),(3,31,57)); lvl=6; h,r-ind=1,1
          [3,3]((2,20,37),(4,41,75),(3,31,57)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,18),(2,20,37),(4,41,75)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,18),(4,41,75),(5,52,95)); lvl=6; h,r-ind=1,1
        [4,3]((1,11,20),(5,52,95),(2,21,39),(3,31,57)); lvl=5; h,r-ind=1,1
          [3,3]((5,52,95),(4,42,77),(3,31,57)); lvl=6; h,r-ind=1,1
          [3,3]((2,21,39),(4,42,77),(3,31,57)); lvl=6; h,r-ind=1,1
          [3,3]((1,11,20),(5,52,95),(4,42,77)); lvl=6; h,r-ind=1,1
          [3,3]((2,21,39),(1,11,20),(4,42,77)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,20),(2,22,41),(2,21,39)); lvl=5; h,r-ind=1,1
        [4,3]((1,10,18),(1,11,19),(1,11,20),(5,52,95)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((1,11,19),(2,21,38),(1,11,20)); lvl=6; h,r-ind=1,1
          [3,3]((5,52,95),(2,21,38),(1,11,20)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,18),(5,52,95),(2,21,38)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,18),(1,11,19),(2,21,38)); lvl=6; h,r-ind=1,1
      [4,3]((2,19,38),(1,10,20),(2,20,37),(4,38,71)); lvl=4; h,r-ind=1,1
        [3,3]((3,29,54),(2,20,37),(1,10,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,19,36),(3,29,54),(1,10,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,19,36),(4,38,73),(1,10,19)); lvl=5; h,r-ind=1,1
        [4,3]((2,19,38),(4,38,73),(1,10,20),(1,10,19)); lvl=5; h,r-ind=1,1
          [3,3]((4,39,76),(1,10,19),(1,10,20)); lvl=6; h,r-ind=1,1
          [4,3]((2,19,38),(2,19,37),(4,39,76),(1,10,20)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((3,29,57),(4,39,76),(2,19,37)); lvl=7; h,r-ind=1,1
            [3,3]((2,19,38),(3,29,57),(2,19,37)); lvl=7; h,r-ind=1,1
            [3,3]((3,29,57),(1,10,20),(4,39,76)); lvl=7; h,r-ind=1,1
            [3,3]((2,19,38),(3,29,57),(1,10,20)); lvl=7; h,r-ind=1,1
          [3,3]((2,19,37),(4,39,76),(1,10,19)); lvl=6; h,r-ind=1,1
          [3,3]((4,38,73),(2,19,37),(1,10,19)); lvl=6; h,r-ind=1,1
        [3,3]((4,38,71),(2,19,36),(3,29,54)); lvl=5; h,r-ind=1,1
      [4,3]((1,11,22),(2,22,41),(1,10,20),(2,20,37)); lvl=4; h,r-ind=3,1
        [3,3]((2,21,39),(1,10,19),(2,20,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,11,21),(2,21,39),(1,10,19)); lvl=5; h,r-ind=1,1
        [4,3]((1,11,22),(1,11,21),(1,10,20),(1,10,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,10,20),(1,10,19),(2,21,41)); lvl=6; h,r-ind=1,1
          [3,3]((1,11,21),(1,10,19),(2,21,41)); lvl=6; h,r-ind=1,1
          [3,3]((1,11,22),(1,11,21),(2,21,41)); lvl=6; h,r-ind=1,1
          [3,3]((1,11,22),(1,10,20),(2,21,41)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,21),(2,22,41),(2,21,39)); lvl=5; h,r-ind=1,1
      [3,3]((1,11,19),(5,49,86),(1,10,18)); lvl=4; h,r-ind=3,3; optimized-h
    [4,3]((2,22,33),(1,11,17),(2,19,31),(2,19,30)); lvl=3; h,r-ind=3,1; alert-h-inc
      [4,3]((2,22,33),(4,41,63),(1,10,16),(1,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,21,32),(1,10,16),(4,42,65)); lvl=5; h,r-ind=1,1
        [3,3]((1,11,17),(1,10,16),(4,42,65)); lvl=5; h,r-ind=1,1
        [4,3]((2,22,33),(1,11,17),(2,21,32),(4,42,65)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,32,49),(2,21,32),(4,42,65)); lvl=6; h,r-ind=1,1
          [3,3]((3,32,49),(1,11,17),(4,42,65)); lvl=6; h,r-ind=1,1
          [3,3]((2,22,33),(3,32,49),(1,11,17)); lvl=6; h,r-ind=1,1
          [3,3]((2,22,33),(3,32,49),(2,21,32)); lvl=6; h,r-ind=1,1
        [3,3]((2,21,32),(4,41,63),(1,10,16)); lvl=5; h,r-ind=1,1
      [3,3]((2,19,30),(4,41,63),(1,10,16)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((2,19,30),(2,19,31),(1,10,16)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,14),(2,17,28),(4,33,55),(2,17,29)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,25,42),(2,17,28),(4,33,55)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,14),(3,25,42),(4,33,55)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,29),(3,25,42),(2,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,14),(2,17,29),(3,25,42)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,15),(4,34,61),(1,8,14),(2,17,29)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,14),(4,33,59),(2,17,30),(2,17,29)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,33,59),(3,25,44),(2,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,29),(3,25,44),(2,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(2,17,29),(3,25,44)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(4,33,59),(3,25,44)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,15),(1,8,14),(4,33,59)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,15),(4,33,59),(2,17,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,15),(4,34,61),(2,17,30)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,12),(1,8,16),(1,8,14)); lvl=2; h,r-ind=4,2; optimized-h
  [5,3]((1,11,11),(1,8,11),(2,22,33),(1,8,13),(4,33,55)); lvl=2; h,r-ind=1,1
    [4,3]((2,17,27),(2,17,28),(4,33,55),(1,8,13)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,25,41),(4,33,55),(2,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,27),(3,25,41),(2,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,13),(2,17,27),(3,25,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,13),(3,25,41),(4,33,55)); lvl=4; h,r-ind=1,1
    [4,3]((2,17,27),(4,34,51),(1,8,12),(1,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,12),(2,17,26),(4,33,51)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,13),(2,17,27),(2,17,26),(4,33,51)); lvl=4; h,r-ind=1,2; alert-r-inc
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      [3,3]((2,17,26),(2,17,27),(3,25,39)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,13),(2,17,27),(3,25,39)); lvl=5; h,r-ind=1,1
      [3,3]((4,33,51),(2,17,26),(3,25,39)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,13),(4,33,51),(3,25,39)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,13),(1,8,12),(4,33,51)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,12),(4,34,51),(2,17,26)); lvl=4; h,r-ind=1,1
  [5,3]((4,38,53),(4,34,51),(1,8,11),(2,19,22),(1,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,9,13),(1,8,12),(4,34,51)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,13),(1,8,12),(3,26,37)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,12),(3,26,37),(2,17,24),(4,35,49)); lvl=4; h,r-ind=1,1
      [3,3]((3,26,37),(4,35,49),(5,43,61)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,24),(4,35,49),(5,43,61)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,12),(2,17,24),(5,43,61)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,12),(3,26,37),(5,43,61)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,12),(1,8,11),(2,17,24)); lvl=4; h,r-ind=1,1
    [5,3]((1,9,11),(3,27,37),(1,8,11),(2,17,24),(4,35,49)); lvl=4; h,r-ind=1,1
      [3,3]((7,61,85),(2,17,24),(4,35,49)); lvl=5; h,r-ind=1,1
      [4,3]((3,27,37),(1,9,12),(7,61,85),(4,35,49)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,44,61),(1,9,12),(7,61,85)); lvl=6; h,r-ind=1,1
        [3,3]((5,44,61),(4,35,49),(7,61,85)); lvl=6; h,r-ind=1,1
        [3,3]((3,27,37),(5,44,61),(4,35,49)); lvl=6; h,r-ind=1,1
        [3,3]((3,27,37),(5,44,61),(1,9,12)); lvl=6; h,r-ind=1,1
      [4,3]((1,9,12),(7,61,85),(2,17,24),(4,34,47)); lvl=5; h,r-ind=1,1
        [3,3]((3,26,36),(2,17,24),(7,61,85)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,12),(3,26,36),(7,61,85)); lvl=6; h,r-ind=1,1
        [3,3]((4,34,47),(3,26,36),(2,17,24)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,12),(4,34,47),(3,26,36)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,11),(2,17,24),(4,34,47)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,12),(1,8,11),(4,34,47)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,11),(1,9,12),(1,8,11)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,13),(3,27,37),(3,26,37),(4,35,49)); lvl=4; h,r-ind=1,1
      [4,3]((2,18,25),(9,79,111),(3,27,37),(4,35,49)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,35,49),(6,53,74),(9,79,111)); lvl=6; h,r-ind=1,1
        [3,3]((2,18,25),(6,53,74),(9,79,111)); lvl=6; h,r-ind=1,1
        [3,3]((3,27,37),(2,18,25),(6,53,74)); lvl=6; h,r-ind=1,1
        [3,3]((3,27,37),(4,35,49),(6,53,74)); lvl=6; h,r-ind=1,1
      [3,3]((3,26,37),(9,79,111),(4,35,49)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,13),(2,18,25),(3,26,37),(9,79,111)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,44,62),(2,18,25),(9,79,111)); lvl=6; h,r-ind=1,1
        [3,3]((3,26,37),(5,44,62),(9,79,111)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,13),(5,44,62),(2,18,25)); lvl=6; h,r-ind=1,1
        [3,3]((3,26,37),(1,9,13),(5,44,62)); lvl=6; h,r-ind=1,1
    [4,3]((1,9,13),(2,19,26),(3,27,37),(5,46,62)); lvl=4; h,r-ind=1,1
      [4,3]((2,18,25),(3,27,37),(7,65,88),(5,46,62)); lvl=5; h,r-ind=1,1
        [4,3]((3,27,37),(9,82,112),(5,46,62),(4,37,50)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((4,37,50),(7,64,87),(9,82,112)); lvl=7; h,r-ind=1,1
          [3,3]((3,27,37),(7,64,87),(9,82,112)); lvl=7; h,r-ind=1,1
          [3,3]((5,46,62),(3,27,37),(7,64,87)); lvl=7; h,r-ind=1,1
          [3,3]((5,46,62),(4,37,50),(7,64,87)); lvl=7; h,r-ind=1,1
        [3,3]((2,18,25),(9,82,112),(4,37,50)); lvl=6; h,r-ind=1,1
        [3,3]((2,18,25),(7,65,88),(4,37,50)); lvl=6; h,r-ind=1,1
        [3,3]((2,18,25),(3,27,37),(9,82,112)); lvl=6; h,r-ind=1,1
      [4,3]((1,9,13),(2,18,25),(2,19,26),(7,65,88)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,25),(3,28,38),(6,55,76)); lvl=6; h,r-ind=1,1
        [4,3]((1,9,13),(2,19,26),(3,28,38),(6,55,76)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((3,28,38),(2,19,26),(4,37,51)); lvl=7; h,r-ind=1,1
          [3,3]((1,9,13),(2,19,26),(4,37,51)); lvl=7; h,r-ind=1,1
          [3,3]((6,55,76),(3,28,38),(4,37,51)); lvl=7; h,r-ind=1,1
          [3,3]((1,9,13),(6,55,76),(4,37,51)); lvl=7; h,r-ind=1,1
        [3,3]((1,9,13),(2,18,25),(6,55,76)); lvl=6; h,r-ind=1,1
        [3,3]((2,18,25),(7,65,88),(3,28,38)); lvl=6; h,r-ind=1,1
    [3,3]((1,9,13),(4,38,53),(2,19,26)); lvl=4; h,r-ind=1,1
    [3,3]((4,38,49),(2,19,26),(5,46,62)); lvl=4; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((2,19,22),(1,9,11),(4,38,49),(3,27,37),(5,46,62)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,12),(3,28,37),(5,46,62),(3,27,37)); lvl=5; h,r-ind=1,1
        [3,3]((3,28,37),(5,46,62),(6,55,74)); lvl=6; h,r-ind=1,1
        [3,3]((3,27,37),(5,46,62),(6,55,74)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,12),(3,28,37),(6,55,74)); lvl=6; h,r-ind=1,1
        [3,3]((3,27,37),(1,9,12),(6,55,74)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,12),(3,28,37),(2,19,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,12),(2,19,24),(4,38,47)); lvl=5; h,r-ind=1,1
      [4,3]((2,19,22),(1,9,12),(1,9,11),(4,38,47)); lvl=5; h,r-ind=1,1
        [3,3]((4,37,46),(1,9,12),(1,9,11)); lvl=6; h,r-ind=1,1
        [4,3]((2,19,22),(2,19,23),(4,37,46),(1,9,11)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((2,19,23),(4,37,46),(3,28,34)); lvl=7; h,r-ind=1,1
          [3,3]((1,9,11),(4,37,46),(3,28,34)); lvl=7; h,r-ind=1,1
          [3,3]((2,19,22),(1,9,11),(3,28,34)); lvl=7; h,r-ind=1,1
          [3,3]((2,19,22),(2,19,23),(3,28,34)); lvl=7; h,r-ind=1,1
        [3,3]((2,19,23),(4,37,46),(1,9,12)); lvl=6; h,r-ind=1,1
        [3,3]((4,38,47),(2,19,23),(1,9,12)); lvl=6; h,r-ind=1,1
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    [3,3]((4,38,49),(3,28,37),(2,19,24)); lvl=5; h,r-ind=1,1
[4,3]((2,17,27),(2,19,29),(2,19,30),(2,17,28)); lvl=3; h,r-ind=4,2; alert-h-inc; alert-r-inc
  [3,3]((1,9,14),(2,19,30),(2,18,29)); lvl=4; h,r-ind=1,1
  [3,3]((2,17,28),(1,9,14),(2,18,29)); lvl=4; h,r-ind=1,1
  [3,3]((2,17,28),(2,17,27),(1,9,14)); lvl=4; h,r-ind=1,1
  [3,3]((1,9,14),(2,19,29),(2,19,30)); lvl=4; h,r-ind=1,1
[4,3]((1,11,16),(2,19,29),(2,22,33),(2,19,30)); lvl=3; h,r-ind=3,1; alert-h-inc
  [3,3]((1,10,15),(2,19,30),(4,41,63)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
  [4,3]((2,22,33),(1,11,16),(1,10,15),(4,41,63)); lvl=4; h,r-ind=1,1
    [3,3]((4,42,63),(1,11,16),(1,10,15)); lvl=5; h,r-ind=1,1
    [3,3]((2,21,32),(4,42,63),(1,10,15)); lvl=5; h,r-ind=1,1
    [3,3]((2,21,32),(4,41,63),(1,10,15)); lvl=5; h,r-ind=1,1
    [4,3]((2,22,33),(2,21,32),(4,42,63),(1,11,16)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,32,48),(2,21,32),(4,42,63)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,16),(3,32,48),(4,42,63)); lvl=6; h,r-ind=1,1
      [3,3]((2,22,33),(3,32,48),(2,21,32)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,16),(2,22,33),(3,32,48)); lvl=6; h,r-ind=1,1
  [3,3]((1,10,15),(2,19,29),(2,19,30)); lvl=4; h,r-ind=1,1
[4,3]((4,38,53),(2,17,27),(4,34,51),(2,19,29)); lvl=3; h,r-ind=4,1; alert-h-inc
  [4,3]((2,18,27),(1,9,14),(2,17,27),(2,17,26)); lvl=4; h,r-ind=1,1
    [3,3]((3,26,40),(1,9,14),(2,17,27)); lvl=5; h,r-ind=1,1
    [3,3]((2,17,26),(3,26,40),(2,17,27)); lvl=5; h,r-ind=1,1
    [3,3]((2,18,27),(2,17,26),(3,26,40)); lvl=5; h,r-ind=1,1
    [3,3]((2,18,27),(3,26,40),(1,9,14)); lvl=5; h,r-ind=1,1
  [3,3]((2,18,27),(1,9,13),(2,17,26)); lvl=4; h,r-ind=1,1
  [3,3]((1,9,13),(4,34,51),(2,17,26)); lvl=4; h,r-ind=1,1
  [3,3]((2,18,27),(4,37,54),(1,9,13)); lvl=4; h,r-ind=1,1
  [4,3]((2,19,27),(4,37,54),(5,47,68),(1,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((4,37,54),(5,47,68),(6,56,81)); lvl=5; h,r-ind=1,1
    [3,3]((2,19,27),(5,47,68),(6,56,81)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,13),(2,19,27),(6,56,81)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,13),(4,37,54),(6,56,81)); lvl=5; h,r-ind=1,1
  [3,3]((2,19,27),(4,38,53),(1,9,13)); lvl=4; h,r-ind=1,1
  [6,3]((2,18,27),(4,38,55),(4,37,54),(5,47,68),(2,19,29),(1,9,14)); lvl=4; h,r-ind=1,1
    [3,3]((3,28,41),(4,37,54),(2,18,27)); lvl=5; h,r-ind=1,1
    [3,3]((4,37,55),(3,28,41),(2,18,27)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,14),(4,37,55),(2,18,27)); lvl=5; h,r-ind=1,1
    [4,3]((2,19,28),(2,19,29),(1,9,14),(4,37,55)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,19,29),(3,28,42),(1,9,14)); lvl=6; h,r-ind=1,1
      [3,3]((4,37,55),(3,28,42),(1,9,14)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,28),(4,37,55),(3,28,42)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,28),(2,19,29),(3,28,42)); lvl=6; h,r-ind=1,1
    [3,3]((2,19,28),(4,37,55),(3,28,41)); lvl=5; h,r-ind=1,1
    [3,3]((4,38,55),(2,19,28),(3,28,41)); lvl=5; h,r-ind=1,1
    [3,3]((5,47,68),(3,28,41),(4,37,54)); lvl=5; h,r-ind=1,1
    [3,3]((4,38,55),(5,47,68),(3,28,41)); lvl=5; h,r-ind=1,1
  [3,3]((2,19,27),(4,38,55),(5,47,68)); lvl=4; h,r-ind=1,1
[4,3]((1,11,16),(1,11,14),(4,38,53),(2,19,29)); lvl=3; h,r-ind=3,1; alert-h-inc
  [4,3]((1,10,14),(2,19,27),(4,38,53),(5,49,67)); lvl=4; h,r-ind=1,1
    [4,3]((3,29,40),(2,19,27),(4,38,53),(6,58,81)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((5,48,67),(2,19,27),(4,38,53)); lvl=6; h,r-ind=1,1
      [3,3]((3,29,40),(5,48,67),(4,38,53)); lvl=6; h,r-ind=1,1
      [3,3]((6,58,81),(3,29,40),(5,48,67)); lvl=6; h,r-ind=1,1
      [3,3]((6,58,81),(5,48,67),(2,19,27)); lvl=6; h,r-ind=1,1
    [3,3]((1,10,14),(3,29,40),(6,58,81)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,14),(3,29,40),(5,49,67)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,14),(2,19,27),(6,58,81)); lvl=5; h,r-ind=1,1
  [3,3]((1,10,14),(1,11,14),(5,49,67)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
  [3,3]((1,11,15),(1,10,14),(1,11,14)); lvl=4; h,r-ind=1,1
  [3,3]((4,38,55),(1,10,14),(2,19,27)); lvl=4; h,r-ind=1,1
  [4,3]((2,19,29),(4,38,55),(1,10,15),(1,10,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,10,15),(4,39,57),(1,10,14)); lvl=5; h,r-ind=1,1
    [3,3]((2,19,28),(4,39,57),(1,10,14)); lvl=5; h,r-ind=1,1
    [3,3]((2,19,28),(4,38,55),(1,10,14)); lvl=5; h,r-ind=1,1
    [4,3]((2,19,29),(2,19,28),(1,10,15),(4,39,57)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,19,28),(3,29,43),(4,39,57)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,15),(3,29,43),(4,39,57)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,29),(1,10,15),(3,29,43)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,29),(2,19,28),(3,29,43)); lvl=6; h,r-ind=1,1
  [4,3]((1,11,16),(1,11,15),(1,10,15),(1,10,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,10,15),(1,10,14),(2,21,30)); lvl=5; h,r-ind=1,1
    [3,3]((1,11,15),(1,10,14),(2,21,30)); lvl=5; h,r-ind=1,1
    [3,3]((1,11,16),(1,11,15),(2,21,30)); lvl=5; h,r-ind=1,1
    [3,3]((1,11,16),(1,10,15),(2,21,30)); lvl=5; h,r-ind=1,1
[4,3]((1,11,11),(1,11,14),(4,38,53),(2,19,22)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc
  [4,3]((1,10,13),(2,19,26),(4,38,53),(5,49,67)); lvl=4; h,r-ind=1,1
    [4,3]((3,29,40),(2,19,26),(4,38,53),(6,58,79)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((5,48,66),(2,19,26),(4,38,53)); lvl=6; h,r-ind=1,1
      [3,3]((3,29,40),(5,48,66),(4,38,53)); lvl=6; h,r-ind=1,1
      [3,3]((6,58,79),(5,48,66),(2,19,26)); lvl=6; h,r-ind=1,1
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            [3,3]((3,29,40),(6,58,79),(5,48,66)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,13),(3,29,40),(6,58,79)); lvl=5; h,r-ind=1,1
          [3,3]((1,10,13),(3,29,40),(5,49,67)); lvl=5; h,r-ind=1,1
          [3,3]((1,10,13),(2,19,26),(6,58,79)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,13),(1,11,14),(5,49,67)); lvl=4; h,r-ind=3,3; optimized-h
        [4,3]((2,22,25),(2,20,25),(1,10,13),(1,11,14)); lvl=4; h,r-ind=1,1
          [4,3]((5,52,64),(3,31,38),(1,10,13),(2,20,25)); lvl=5; h,r-ind=1,1
            [3,3]((4,41,51),(1,10,13),(2,20,25)); lvl=6; h,r-ind=1,1
            [3,3]((4,41,51),(3,31,38),(2,20,25)); lvl=6; h,r-ind=1,1
            [3,3]((5,52,64),(4,41,51),(3,31,38)); lvl=6; h,r-ind=1,1
            [3,3]((5,52,64),(4,41,51),(1,10,13)); lvl=6; h,r-ind=1,1
          [3,3]((2,21,25),(3,31,38),(2,20,25)); lvl=5; h,r-ind=1,1
          [4,3]((2,21,25),(1,11,13),(5,52,64),(3,31,38)); lvl=5; h,r-ind=1,1
            [3,3]((4,42,51),(5,52,64),(1,11,13)); lvl=6; h,r-ind=1,1
            [3,3]((2,21,25),(4,42,51),(1,11,13)); lvl=6; h,r-ind=1,1
            [3,3]((4,42,51),(3,31,38),(5,52,64)); lvl=6; h,r-ind=1,1
            [3,3]((2,21,25),(4,42,51),(3,31,38)); lvl=6; h,r-ind=1,1
          [3,3]((2,21,25),(2,22,25),(1,11,13)); lvl=5; h,r-ind=1,1
          [4,3]((1,11,13),(5,52,64),(1,11,14),(1,10,13)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((5,52,64),(2,21,26),(1,10,13)); lvl=6; h,r-ind=1,1
            [3,3]((1,11,14),(2,21,26),(1,10,13)); lvl=6; h,r-ind=1,1
            [3,3]((1,11,13),(5,52,64),(2,21,26)); lvl=6; h,r-ind=1,1
            [3,3]((1,11,14),(1,11,13),(2,21,26)); lvl=6; h,r-ind=1,1
        [4,3]((4,38,49),(2,20,25),(1,10,13),(2,19,26)); lvl=4; h,r-ind=1,1
          [4,3]((2,20,25),(4,39,50),(1,10,13),(7,68,88)); lvl=5; h,r-ind=1,1
            [3,3]((4,39,50),(7,68,88),(5,49,63)); lvl=6; h,r-ind=1,1
            [3,3]((1,10,13),(7,68,88),(5,49,63)); lvl=6; h,r-ind=1,1
            [3,3]((2,20,25),(4,39,50),(5,49,63)); lvl=6; h,r-ind=1,1
            [3,3]((1,10,13),(2,20,25),(5,49,63)); lvl=6; h,r-ind=1,1
          [4,3]((2,19,25),(2,19,26),(1,10,13),(7,68,88)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((1,10,13),(3,29,38),(2,19,26)); lvl=6; h,r-ind=1,1
            [3,3]((2,19,25),(3,29,38),(2,19,26)); lvl=6; h,r-ind=1,1
            [3,3]((7,68,88),(1,10,13),(3,29,38)); lvl=6; h,r-ind=1,1
            [3,3]((2,19,25),(7,68,88),(3,29,38)); lvl=6; h,r-ind=1,1
          [4,3]((3,29,37),(2,19,25),(4,39,50),(7,68,88)); lvl=5; h,r-ind=1,1
            [3,3]((2,19,25),(6,58,75),(7,68,88)); lvl=6; h,r-ind=1,1
            [3,3]((4,39,50),(6,58,75),(7,68,88)); lvl=6; h,r-ind=1,1
            [3,3]((3,29,37),(4,39,50),(6,58,75)); lvl=6; h,r-ind=1,1
            [3,3]((3,29,37),(2,19,25),(6,58,75)); lvl=6; h,r-ind=1,1
          [3,3]((4,38,49),(3,29,37),(2,19,25)); lvl=5; h,r-ind=1,1
          [3,3]((3,29,37),(2,20,25),(4,39,50)); lvl=5; h,r-ind=1,1
        [4,3]((4,38,49),(2,19,22),(2,20,25),(1,10,11)); lvl=4; h,r-ind=1,1
          [3,3]((3,29,37),(1,10,12),(2,20,25)); lvl=5; h,r-ind=1,1
          [3,3]((3,29,37),(2,19,24),(1,10,12)); lvl=5; h,r-ind=1,1
          [3,3]((4,38,47),(2,19,24),(1,10,12)); lvl=5; h,r-ind=1,1
          [4,3]((2,19,22),(4,38,47),(1,10,11),(1,10,12)); lvl=5; h,r-ind=1,1
            [3,3]((1,10,11),(4,39,46),(1,10,12)); lvl=6; h,r-ind=1,1
            [3,3]((2,19,23),(4,39,46),(1,10,12)); lvl=6; h,r-ind=1,1
            [3,3]((2,19,23),(4,38,47),(1,10,12)); lvl=6; h,r-ind=1,1
            [4,3]((2,19,22),(2,19,23),(1,10,11),(4,39,46)); lvl=6; h,r-ind=1,2; alert-r-inc
              [3,3]((2,19,23),(4,39,46),(3,29,34)); lvl=7; h,r-ind=1,1
              [3,3]((1,10,11),(4,39,46),(3,29,34)); lvl=7; h,r-ind=1,1
              [3,3]((2,19,22),(2,19,23),(3,29,34)); lvl=7; h,r-ind=1,1
              [3,3]((1,10,11),(2,19,22),(3,29,34)); lvl=7; h,r-ind=1,1
          [3,3]((3,29,37),(4,38,49),(2,19,24)); lvl=5; h,r-ind=1,1
        [4,3]((1,11,11),(2,22,25),(2,20,25),(1,10,11)); lvl=4; h,r-ind=3,1
          [3,3]((2,20,25),(1,10,12),(2,21,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,11,12),(1,10,12),(2,21,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,11,12),(2,22,25),(2,21,25)); lvl=5; h,r-ind=1,1
          [4,3]((1,11,11),(1,11,12),(1,10,11),(1,10,12)); lvl=5; h,r-ind=1,1
            [3,3]((1,10,11),(1,10,12),(2,21,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,11,12),(1,10,12),(2,21,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,11,11),(1,10,11),(2,21,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,11,12),(1,11,11),(2,21,23)); lvl=6; h,r-ind=1,1
    [3,3]((1,6,11),(1,8,11),(1,8,13)); lvl=2; h,r-ind=4,2; optimized-h
    [3,3]((2,11,22),(1,6,11),(1,6,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,11,11),(2,11,22)); lvl=1; h,r-ind=121,11; alert-h-inc
    [5,3]((2,11,11),(4,22,33),(1,5,8),(1,0,0),(1,3,6)); lvl=2; h,r-ind=1,1
      [5,3]((4,15,21),(2,3,6),(1,3,6),(1,4,7),(4,17,27)); lvl=3; h,r-ind=1,1
        [5,3]((4,11,17),(5,16,25),(3,10,16),(2,3,6),(1,2,4)); lvl=4; h,r-ind=1,1
          [4,3]((2,3,6),(4,9,15),(1,3,5),(1,2,4)); lvl=5; h,r-ind=1,1
            [3,3]((1,3,5),(2,4,7),(4,9,15)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,5),(4,9,16),(2,4,7)); lvl=6; h,r-ind=1,1
            [4,3]((1,2,4),(2,3,6),(4,9,16),(2,4,7)); lvl=6; h,r-ind=1,2; alert-r-inc
              [3,3]((2,3,6),(3,6,11),(2,4,7)); lvl=7; h,r-ind=1,1
              [3,3]((4,9,16),(3,6,11),(2,4,7)); lvl=7; h,r-ind=1,1
              [3,3]((1,2,4),(2,3,6),(3,6,11)); lvl=7; h,r-ind=1,1
              [3,3]((4,9,16),(1,2,4),(3,6,11)); lvl=7; h,r-ind=1,1
            [3,3]((1,2,4),(1,3,5),(4,9,16)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,8),(4,9,15),(1,3,5)); lvl=5; h,r-ind=1,1
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      [3,3]((3,9,14),(2,5,8),(1,3,5)); lvl=5; h,r-ind=1,1
      [4,3]((3,9,14),(5,16,25),(3,10,16),(1,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,25),(3,10,16),(6,19,30)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,5),(3,10,16),(6,19,30)); lvl=6; h,r-ind=1,1
        [3,3]((3,9,14),(5,16,25),(6,19,30)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,5),(3,9,14),(6,19,30)); lvl=6; h,r-ind=1,1
      [3,3]((4,11,17),(3,9,14),(2,5,8)); lvl=5; h,r-ind=1,1
    [5,3]((3,10,16),(4,14,23),(1,3,6),(2,7,12),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,23),(2,7,12),(1,3,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(4,13,23),(1,3,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,4),(1,3,6)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,5),(7,24,40),(4,13,23),(2,7,12)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,17),(2,7,12),(7,24,40)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,5),(3,10,17),(7,24,40)); lvl=6; h,r-ind=1,1
        [3,3]((4,13,23),(3,10,17),(2,7,12)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,5),(4,13,23),(3,10,17)); lvl=6; h,r-ind=1,1
      [3,3]((4,14,23),(7,24,40),(2,7,12)); lvl=5; h,r-ind=1,1
      [4,3]((4,14,23),(3,10,16),(1,3,5),(7,24,40)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,17,28),(1,3,5),(3,10,16)); lvl=6; h,r-ind=1,1
        [3,3]((4,14,23),(5,17,28),(3,10,16)); lvl=6; h,r-ind=1,1
        [3,3]((7,24,40),(5,17,28),(1,3,5)); lvl=6; h,r-ind=1,1
        [3,3]((4,14,23),(7,24,40),(5,17,28)); lvl=6; h,r-ind=1,1
    [3,3]((1,3,6),(2,7,12),(1,4,7)); lvl=4; h,r-ind=1,1
    [4,3]((4,14,23),(3,11,18),(2,7,12),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,11,18),(5,18,30)); lvl=5; h,r-ind=1,1
      [3,3]((4,14,23),(3,11,18),(5,18,30)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,12),(4,14,23),(5,18,30)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,12),(1,4,7),(5,18,30)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,6),(3,11,18),(1,4,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(4,17,27),(1,4,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,6),(3,10,16),(4,14,23),(3,11,18)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,11),(9,32,52),(3,10,16),(4,14,23)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,14,23),(6,21,34),(9,32,52)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,11),(6,21,34),(9,32,52)); lvl=6; h,r-ind=1,1
        [3,3]((3,10,16),(4,14,23),(6,21,34)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,11),(3,10,16),(6,21,34)); lvl=6; h,r-ind=1,1
      [3,3]((3,11,18),(9,32,52),(4,14,23)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,6),(2,7,11),(3,11,18),(9,32,52)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,11),(9,32,52),(5,18,29)); lvl=6; h,r-ind=1,1
        [3,3]((3,11,18),(9,32,52),(5,18,29)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,6),(2,7,11),(5,18,29)); lvl=6; h,r-ind=1,1
        [3,3]((3,11,18),(1,4,6),(5,18,29)); lvl=6; h,r-ind=1,1
    [3,3]((2,7,10),(4,11,17),(5,16,25)); lvl=4; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,7,10),(4,15,21),(1,4,6)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,10),(5,16,25),(1,4,6),(3,10,16)); lvl=4; h,r-ind=1,1
      [4,3]((7,23,35),(5,16,25),(3,10,16),(2,7,11)); lvl=5; h,r-ind=1,1
        [4,3]((4,13,20),(9,30,47),(3,10,16),(5,16,25)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((9,30,47),(7,23,36),(3,10,16)); lvl=7; h,r-ind=1,1
          [3,3]((5,16,25),(7,23,36),(3,10,16)); lvl=7; h,r-ind=1,1
          [3,3]((4,13,20),(5,16,25),(7,23,36)); lvl=7; h,r-ind=1,1
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        [3,3]((2,7,11),(4,13,20),(9,30,47)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,11),(7,23,35),(4,13,20)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,11),(9,30,47),(3,10,16)); lvl=6; h,r-ind=1,1
      [4,3]((1,4,6),(2,7,10),(7,23,35),(2,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,11),(3,10,15),(7,23,35)); lvl=6; h,r-ind=1,1
        [3,3]((6,21,32),(2,7,11),(3,10,15)); lvl=6; h,r-ind=1,1
        [4,3]((1,4,6),(6,21,32),(2,7,10),(3,10,15)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((6,21,32),(4,14,21),(3,10,15)); lvl=7; h,r-ind=1,1
          [3,3]((2,7,10),(4,14,21),(3,10,15)); lvl=7; h,r-ind=1,1
          [3,3]((1,4,6),(2,7,10),(4,14,21)); lvl=7; h,r-ind=1,1
          [3,3]((1,4,6),(6,21,32),(4,14,21)); lvl=7; h,r-ind=1,1
        [3,3]((1,4,6),(6,21,32),(2,7,11)); lvl=6; h,r-ind=1,1
  [4,3]((1,5,8),(2,10,15),(1,4,7),(4,17,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(2,9,14),(4,18,29)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,8),(2,10,15),(2,9,14),(4,18,29)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,10,15),(3,14,22),(2,9,14)); lvl=5; h,r-ind=1,1
      [3,3]((4,18,29),(3,14,22),(2,9,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(2,10,15),(3,14,22)); lvl=5; h,r-ind=1,1
      [3,3]((4,18,29),(1,5,8),(3,14,22)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,8),(1,4,7),(4,18,29)); lvl=4; h,r-ind=1,1
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  [4,3]((4,15,21),(2,10,13),(2,10,15),(4,17,27)); lvl=3; h,r-ind=4,1; alert-h-inc
    [4,3]((2,9,13),(2,9,14),(1,5,7),(2,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(3,14,21),(2,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,14),(3,14,21),(2,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,13),(1,5,7),(3,14,21)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,14),(2,9,13),(3,14,21)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,13),(2,9,14),(1,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((4,17,24),(2,9,13),(1,4,6)); lvl=4; h,r-ind=1,1
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  [4,3]((2,8,11),(4,17,24),(5,21,29),(1,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((5,21,29),(6,25,35),(4,17,24)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,6),(6,25,35),(4,17,24)); lvl=5; h,r-ind=1,1
    [3,3]((2,8,11),(5,21,29),(6,25,35)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,6),(2,8,11),(6,25,35)); lvl=5; h,r-ind=1,1
  [3,3]((2,8,11),(4,15,21),(1,4,6)); lvl=4; h,r-ind=1,1
  [3,3]((4,17,27),(2,9,14),(1,4,6)); lvl=4; h,r-ind=1,1
  [6,3]((4,17,24),(5,21,29),(4,17,23),(2,9,13),(1,5,7),(2,10,13)); lvl=4; h,r-ind=1,1
    [3,3]((3,13,18),(2,9,12),(4,17,23)); lvl=5; h,r-ind=1,1
    [3,3]((5,21,29),(3,13,18),(4,17,23)); lvl=5; h,r-ind=1,1
    [3,3]((4,17,24),(5,21,29),(3,13,18)); lvl=5; h,r-ind=1,1
    [3,3]((3,13,18),(4,18,25),(2,9,12)); lvl=5; h,r-ind=1,1
    [4,3]((2,10,13),(1,5,7),(4,18,25),(2,9,12)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,14,19),(1,5,7),(4,18,25)); lvl=6; h,r-ind=1,1
      [3,3]((2,9,12),(3,14,19),(4,18,25)); lvl=6; h,r-ind=1,1
      [3,3]((2,10,13),(3,14,19),(1,5,7)); lvl=6; h,r-ind=1,1
      [3,3]((2,9,12),(2,10,13),(3,14,19)); lvl=6; h,r-ind=1,1
    [3,3]((3,13,18),(2,9,13),(4,18,25)); lvl=5; h,r-ind=1,1
    [3,3]((4,17,24),(3,13,18),(2,9,13)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,13),(4,18,25)); lvl=5; h,r-ind=1,1
  [3,3]((2,8,11),(5,21,29),(4,17,23)); lvl=4; h,r-ind=1,1
[4,3]((2,11,16),(2,11,14),(2,10,13),(2,10,15)); lvl=3; h,r-ind=4,2; alert-h-inc; alert-r-inc
  [3,3]((2,11,14),(1,5,7),(2,10,13)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,15),(2,11,14),(1,5,7)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,16),(2,11,15),(1,5,7)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,16),(2,10,15),(1,5,7)); lvl=4; h,r-ind=1,1
[4,3]((4,22,33),(2,11,16),(1,5,8),(2,10,15)); lvl=3; h,r-ind=1,2; alert-r-inc
  [3,3]((1,5,8),(3,16,24),(2,10,15)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,16),(3,16,24),(2,10,15)); lvl=4; h,r-ind=1,1
  [3,3]((4,22,33),(1,5,8),(3,16,24)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,16),(4,22,33),(3,16,24)); lvl=4; h,r-ind=1,1
[4,3]((1,5,5),(1,3,3),(4,15,21),(2,10,13)); lvl=3; h,r-ind=3,1; alert-h-inc
  [3,3]((1,4,5),(2,8,11),(4,17,23)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,6),(2,10,13),(1,4,5),(4,17,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(2,9,12),(4,17,23)); lvl=5; h,r-ind=1,1
    [3,3]((4,18,23),(1,4,5),(2,9,12)); lvl=5; h,r-ind=1,1
    [4,3]((1,5,6),(4,18,23),(2,10,13),(2,9,12)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,14,18),(4,18,23),(2,9,12)); lvl=6; h,r-ind=1,1
      [3,3]((2,10,13),(3,14,18),(2,9,12)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,6),(2,10,13),(3,14,18)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,6),(3,14,18),(4,18,23)); lvl=6; h,r-ind=1,1
    [3,3]((1,5,6),(4,18,23),(1,4,5)); lvl=5; h,r-ind=1,1
  [4,3]((1,5,5),(1,5,6),(1,4,4),(1,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,4),(1,4,5),(2,9,10)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,5),(2,9,10)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,5),(1,5,6),(2,9,10)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,5),(1,4,4),(2,9,10)); lvl=5; h,r-ind=1,1
  [3,3]((1,3,3),(1,4,4),(1,4,5)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,5),(4,15,21),(5,18,24),(2,8,11)); lvl=4; h,r-ind=1,1
    [4,3]((2,8,11),(6,23,31),(3,11,15),(4,15,21)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,11,15),(5,19,26),(6,23,31)); lvl=6; h,r-ind=1,1
      [3,3]((2,8,11),(5,19,26),(6,23,31)); lvl=6; h,r-ind=1,1
      [3,3]((4,15,21),(2,8,11),(5,19,26)); lvl=6; h,r-ind=1,1
      [3,3]((4,15,21),(3,11,15),(5,19,26)); lvl=6; h,r-ind=1,1
    [3,3]((1,4,5),(2,8,11),(6,23,31)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,5),(6,23,31),(3,11,15)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,5),(5,18,24),(3,11,15)); lvl=5; h,r-ind=1,1
  [3,3]((1,3,3),(1,4,5),(5,18,24)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
[4,3]((2,11,11),(2,11,14),(1,5,5),(2,10,13)); lvl=3; h,r-ind=3,1; alert-h-inc
  [3,3]((2,11,14),(1,5,6),(2,10,13)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,14),(4,22,25),(1,5,6)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
  [4,3]((2,11,11),(4,22,25),(1,5,5),(1,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((4,21,23),(1,5,6),(1,5,5)); lvl=5; h,r-ind=1,1
    [4,3]((2,11,11),(2,11,12),(4,21,23),(1,5,5)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,11,12),(4,21,23),(3,16,17)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,5),(4,21,23),(3,16,17)); lvl=6; h,r-ind=1,1
      [3,3]((2,11,11),(1,5,5),(3,16,17)); lvl=6; h,r-ind=1,1
      [3,3]((2,11,11),(2,11,12),(3,16,17)); lvl=6; h,r-ind=1,1
    [3,3]((2,11,12),(4,21,23),(1,5,6)); lvl=5; h,r-ind=1,1
    [3,3]((4,22,25),(2,11,12),(1,5,6)); lvl=5; h,r-ind=1,1
[4,3]((1,3,3),(1,0,0),(4,15,21),(2,3,6)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc
  [4,3]((1,1,2),(2,5,7),(2,3,6),(4,11,17)); lvl=4; h,r-ind=1,1
    [3,3]((4,11,17),(2,5,8),(3,8,12)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,8),(3,8,12)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(3,8,12)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,3),(4,9,15),(2,5,8)); lvl=5; h,r-ind=1,1
    [4,3]((2,3,6),(1,1,2),(1,2,3),(4,9,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,2),(4,7,12)); lvl=6; h,r-ind=1,1
      [4,3]((2,4,7),(2,3,6),(1,1,2),(4,7,12)); lvl=6; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,9),(2,3,6),(1,1,2)); lvl=7; h,r-ind=1,1
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            [3,3]((4,7,12),(3,5,9),(1,1,2)); lvl=7; h,r-ind=1,1
            [3,3]((2,4,7),(4,7,12),(3,5,9)); lvl=7; h,r-ind=1,1
            [3,3]((2,4,7),(3,5,9),(2,3,6)); lvl=7; h,r-ind=1,1
          [3,3]((2,4,7),(1,2,3),(4,7,12)); lvl=6; h,r-ind=1,1
          [3,3]((4,9,15),(2,4,7),(1,2,3)); lvl=6; h,r-ind=1,1
      [4,3]((1,3,4),(2,7,10),(2,5,7),(4,11,17)); lvl=4; h,r-ind=1,1
        [4,3]((2,6,9),(3,8,12),(4,11,16),(7,20,29)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,16),(6,17,25),(3,8,12)); lvl=6; h,r-ind=1,1
          [3,3]((2,6,9),(6,17,25),(3,8,12)); lvl=6; h,r-ind=1,1
          [3,3]((7,20,29),(2,6,9),(6,17,25)); lvl=6; h,r-ind=1,1
          [3,3]((7,20,29),(4,11,16),(6,17,25)); lvl=6; h,r-ind=1,1
        [4,3]((1,3,4),(2,5,7),(4,11,16),(7,20,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,7),(5,14,20),(4,11,16)); lvl=6; h,r-ind=1,1
          [3,3]((7,20,29),(5,14,20),(4,11,16)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(7,20,29),(5,14,20)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(2,5,7),(5,14,20)); lvl=6; h,r-ind=1,1
        [4,3]((1,3,4),(2,6,9),(2,7,10),(7,20,29)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((3,9,13),(2,7,10),(2,6,9)); lvl=6; h,r-ind=1,1
          [3,3]((7,20,29),(3,9,13),(2,6,9)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(7,20,29),(3,9,13)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(3,9,13),(2,7,10)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,7),(3,8,12),(4,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,9),(3,8,12),(4,11,17)); lvl=5; h,r-ind=1,1
      [4,3]((5,18,24),(1,3,4),(4,15,21),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(1,3,4),(6,21,29)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,15),(1,3,4),(6,21,29)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,15),(5,18,24),(1,3,4)); lvl=5; h,r-ind=1,1
        [4,3]((4,15,21),(3,11,15),(2,7,10),(6,21,29)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,18,25),(2,7,10),(6,21,29)); lvl=6; h,r-ind=1,1
          [3,3]((3,11,15),(5,18,25),(6,21,29)); lvl=6; h,r-ind=1,1
          [3,3]((4,15,21),(5,18,25),(2,7,10)); lvl=6; h,r-ind=1,1
          [3,3]((3,11,15),(4,15,21),(5,18,25)); lvl=6; h,r-ind=1,1
      [3,3]((1,3,3),(5,18,24),(1,3,4)); lvl=4; h,r-ind=3,3; optimized-h
      [4,3]((2,3,3),(1,0,0),(1,1,2),(2,5,7)); lvl=4; h,r-ind=3,1
        [4,3]((1,1,1),(1,2,3),(1,0,0),(1,1,2)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(1,2,3),(2,2,3)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(1,2,3),(2,2,3)); lvl=6; h,r-ind=1,1
          [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=6; h,r-ind=1,1
          [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,1),(2,4,5),(1,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(2,5,7),(1,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,3),(1,1,1),(2,4,5)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,3),(1,3,4),(2,3,3),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(2,5,7),(2,4,5)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,2),(5,12,15),(3,7,9),(2,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,11),(5,12,15),(3,7,9)); lvl=6; h,r-ind=1,1
          [3,3]((2,4,5),(4,9,11),(3,7,9)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,2),(2,4,5),(4,9,11)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,2),(4,9,11),(5,12,15)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,3),(1,2,2),(2,4,5)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,4),(5,12,15),(3,7,9),(2,5,7)); lvl=5; h,r-ind=1,1
          [3,3]((4,10,13),(5,12,15),(3,7,9)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,7),(4,10,13),(3,7,9)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(2,5,7),(4,10,13)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(4,10,13),(5,12,15)); lvl=6; h,r-ind=1,1
        [4,3]((1,2,2),(1,3,3),(1,3,4),(5,12,15)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((2,5,6),(1,3,3),(1,3,4)); lvl=6; h,r-ind=1,1
          [3,3]((5,12,15),(2,5,6),(1,3,4)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,2),(5,12,15),(2,5,6)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,2),(2,5,6),(1,3,3)); lvl=6; h,r-ind=1,1
[3,3]((1,5,10),(1,5,8),(1,3,6)); lvl=2; h,r-ind=4,2; optimized-h
[3,3]((2,11,22),(1,5,10),(1,6,11)); lvl=2; h,r-ind=1,1
[5,3]((1,5,10),(1,6,11),(1,6,9),(4,22,33),(1,5,8)); lvl=2; h,r-ind=1,1
  [4,3]((4,22,37),(1,6,9),(1,6,10),(2,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,10),(1,6,9),(4,23,37)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,18),(2,11,17),(1,6,9),(4,23,37)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,11,17),(3,17,27),(1,6,9)); lvl=5; h,r-ind=1,1
      [3,3]((4,23,37),(3,17,27),(1,6,9)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,18),(4,23,37),(3,17,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,18),(2,11,17),(3,17,27)); lvl=5; h,r-ind=1,1
    [3,3]((2,11,18),(1,6,10),(4,23,37)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,18),(4,22,37),(1,6,10)); lvl=4; h,r-ind=1,1
  [3,3]((4,22,33),(1,6,9),(2,11,17)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,8),(4,22,33),(2,11,17)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,9),(4,22,37),(1,5,8),(2,11,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,8),(4,21,35),(2,11,18),(2,11,17)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,21,35),(3,16,26),(2,11,18)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,17),(3,16,26),(2,11,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(2,11,17),(3,16,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(4,21,35),(3,16,26)); lvl=5; h,r-ind=1,1
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      [3,3]((1,5,9),(1,5,8),(4,21,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(4,21,35),(2,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(4,22,37),(2,11,18)); lvl=4; h,r-ind=1,1
    [5,3]((1,5,9),(1,5,10),(4,22,37),(1,6,11),(1,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,30),(1,6,10),(1,6,11)); lvl=4; h,r-ind=1,1
      [5,3]((1,5,10),(3,17,30),(3,16,29),(4,22,39),(1,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,20),(4,22,39),(3,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(2,11,20),(3,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(1,6,11),(2,11,20)); lvl=5; h,r-ind=1,1
        [3,3]((3,16,29),(2,11,20),(4,22,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(3,16,29),(2,11,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,9),(1,5,10),(3,16,29)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,9),(2,11,19),(3,16,29),(4,22,39)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,19),(4,22,39),(5,27,48)); lvl=5; h,r-ind=1,1
        [3,3]((3,16,29),(4,22,39),(5,27,48)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(2,11,19),(5,27,48)); lvl=5; h,r-ind=1,1
        [3,3]((3,16,29),(1,5,9),(5,27,48)); lvl=5; h,r-ind=1,1
      [4,3]((2,11,19),(3,17,30),(4,22,39),(1,6,10)); lvl=4; h,r-ind=1,1
        [3,3]((5,28,49),(3,17,30),(4,22,39)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,19),(5,28,49),(4,22,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(2,11,19),(5,28,49)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(5,28,49),(3,17,30)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,19),(4,22,37),(1,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,11,19),(4,22,37)); lvl=4; h,r-ind=1,1
  [5,3]((1,11,11),(2,11,11),(1,8,11),(1,6,9),(4,22,33)); lvl=2; h,r-ind=1,1
    [5,3]((4,29,35),(2,19,22),(4,27,37),(1,8,11),(1,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,10),(1,8,11),(2,15,20)); lvl=4; h,r-ind=1,1
      [5,3]((3,23,29),(4,30,39),(1,9,11),(1,8,11),(2,15,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,11),(4,31,41),(2,15,20)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,10),(7,53,69),(4,31,41),(2,15,20)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,20),(7,53,69),(3,23,30)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,10),(7,53,69),(3,23,30)); lvl=6; h,r-ind=1,1
          [3,3]((4,31,41),(2,15,20),(3,23,30)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,10),(4,31,41),(3,23,30)); lvl=6; h,r-ind=1,1
        [3,3]((4,30,39),(7,53,69),(2,15,20)); lvl=5; h,r-ind=1,1
        [4,3]((3,23,29),(1,8,10),(4,30,39),(7,53,69)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,38,49),(7,53,69),(1,8,10)); lvl=6; h,r-ind=1,1
          [3,3]((3,23,29),(5,38,49),(1,8,10)); lvl=6; h,r-ind=1,1
          [3,3]((5,38,49),(4,30,39),(7,53,69)); lvl=6; h,r-ind=1,1
          [3,3]((3,23,29),(5,38,49),(4,30,39)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,10),(1,8,11),(4,31,41)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,10),(1,9,11),(1,8,11)); lvl=5; h,r-ind=1,1
      [5,3]((5,39,48),(4,33,39),(3,23,29),(1,9,11),(2,19,22)); lvl=4; h,r-ind=1,1
        [4,3]((4,35,41),(1,8,10),(1,9,11),(2,19,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,10),(1,9,11),(4,35,42)); lvl=6; h,r-ind=1,1
          [4,3]((2,18,21),(2,19,22),(1,9,11),(4,35,42)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((3,27,32),(1,9,11),(2,19,22)); lvl=7; h,r-ind=1,1
            [3,3]((2,18,21),(3,27,32),(2,19,22)); lvl=7; h,r-ind=1,1
            [3,3]((4,35,42),(3,27,32),(1,9,11)); lvl=7; h,r-ind=1,1
            [3,3]((2,18,21),(4,35,42),(3,27,32)); lvl=7; h,r-ind=1,1
          [3,3]((2,18,21),(1,8,10),(4,35,42)); lvl=6; h,r-ind=1,1
          [3,3]((4,35,41),(2,18,21),(1,8,10)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,20),(4,35,41),(1,8,10)); lvl=5; h,r-ind=1,1
        [3,3]((3,24,29),(2,17,20),(1,8,10)); lvl=5; h,r-ind=1,1
        [4,3]((3,24,29),(5,39,48),(3,23,29),(1,8,10)); lvl=5; h,r-ind=1,1
          [3,3]((5,39,48),(3,23,29),(6,47,58)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,10),(3,23,29),(6,47,58)); lvl=6; h,r-ind=1,1
          [3,3]((3,24,29),(1,8,10),(6,47,58)); lvl=6; h,r-ind=1,1
          [3,3]((3,24,29),(5,39,48),(6,47,58)); lvl=6; h,r-ind=1,1
        [3,3]((3,24,29),(4,33,39),(2,17,20)); lvl=5; h,r-ind=1,1
      [4,3]((4,30,39),(3,22,29),(1,7,10),(2,15,20)); lvl=4; h,r-ind=1,1
        [3,3]((5,37,49),(1,7,10),(3,22,29)); lvl=5; h,r-ind=1,1
        [3,3]((4,30,39),(5,37,49),(3,22,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,20),(5,37,49),(1,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((4,30,39),(2,15,20),(5,37,49)); lvl=5; h,r-ind=1,1
      [3,3]((3,22,29),(1,7,9),(1,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(4,27,37),(1,7,10)); lvl=4; h,r-ind=1,1
      [4,3]((3,23,29),(4,30,39),(3,22,29),(1,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,30,39),(3,22,29),(9,67,87)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,9),(2,15,19),(3,22,29),(9,67,87)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,37,48),(9,67,87),(2,15,19)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,9),(5,37,48),(2,15,19)); lvl=6; h,r-ind=1,1
          [3,3]((5,37,48),(3,22,29),(9,67,87)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,9),(5,37,48),(3,22,29)); lvl=6; h,r-ind=1,1
        [4,3]((3,23,29),(2,15,19),(4,30,39),(9,67,87)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((6,45,58),(9,67,87),(2,15,19)); lvl=6; h,r-ind=1,1
          [3,3]((3,23,29),(6,45,58),(2,15,19)); lvl=6; h,r-ind=1,1
          [3,3]((6,45,58),(4,30,39),(9,67,87)); lvl=6; h,r-ind=1,1
          [3,3]((3,23,29),(6,45,58),(4,30,39)); lvl=6; h,r-ind=1,1
      [4,3]((5,39,48),(2,15,18),(3,23,29),(1,7,9)); lvl=4; h,r-ind=1,1
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      [4,3]((7,54,66),(2,15,19),(2,15,18),(1,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((6,45,56),(2,15,19),(1,7,9)); lvl=6; h,r-ind=1,1
        [4,3]((3,23,28),(2,15,18),(6,45,56),(1,7,9)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((4,30,37),(1,7,9),(2,15,18)); lvl=7; h,r-ind=1,1
          [3,3]((3,23,28),(4,30,37),(2,15,18)); lvl=7; h,r-ind=1,1
          [3,3]((6,45,56),(4,30,37),(1,7,9)); lvl=7; h,r-ind=1,1
          [3,3]((3,23,28),(6,45,56),(4,30,37)); lvl=7; h,r-ind=1,1
        [3,3]((3,23,28),(6,45,56),(2,15,19)); lvl=6; h,r-ind=1,1
        [3,3]((7,54,66),(3,23,28),(2,15,19)); lvl=6; h,r-ind=1,1
      [4,3]((5,39,48),(7,54,66),(3,23,29),(2,15,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,19),(4,31,38),(9,69,86)); lvl=6; h,r-ind=1,1
        [4,3]((3,23,29),(5,39,48),(4,31,38),(9,69,86)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((7,54,67),(5,39,48),(4,31,38)); lvl=7; h,r-ind=1,1
          [3,3]((9,69,86),(7,54,67),(4,31,38)); lvl=7; h,r-ind=1,1
          [3,3]((3,23,29),(9,69,86),(7,54,67)); lvl=7; h,r-ind=1,1
          [3,3]((3,23,29),(7,54,67),(5,39,48)); lvl=7; h,r-ind=1,1
        [3,3]((3,23,29),(2,15,19),(9,69,86)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,19),(7,54,66),(4,31,38)); lvl=6; h,r-ind=1,1
    [3,3]((4,29,35),(2,15,18),(1,7,9)); lvl=4; h,r-ind=1,1
    [3,3]((5,39,48),(4,33,39),(2,15,18)); lvl=4; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,12,17),(4,27,37),(1,6,9),(1,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,18),(1,7,10),(4,27,37)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,18),(4,26,37),(1,7,10)); lvl=4; h,r-ind=1,1
    [3,3]((4,26,37),(1,6,9),(1,7,10)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,18),(2,12,17),(4,26,37),(1,6,9)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,12,17),(3,19,27),(1,6,9)); lvl=5; h,r-ind=1,1
      [3,3]((4,26,37),(3,19,27),(1,6,9)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,18),(4,26,37),(3,19,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,18),(2,12,17),(3,19,27)); lvl=5; h,r-ind=1,1
  [4,3]((4,29,35),(2,12,15),(2,12,17),(4,27,37)); lvl=3; h,r-ind=4,1; alert-h-inc
    [4,3]((2,13,17),(1,6,8),(2,13,18),(2,12,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,26),(2,12,17),(1,6,8)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,17),(3,19,26),(1,6,8)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,26),(2,13,18),(2,12,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,17),(3,19,26),(2,13,18)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,9),(2,13,17),(2,13,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(4,27,37),(2,13,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(4,27,34),(2,13,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(4,29,35),(2,14,17)); lvl=4; h,r-ind=1,1
    [6,3]((2,12,15),(4,27,33),(5,34,42),(4,27,34),(2,13,17),(1,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,25),(4,27,33),(2,13,16)); lvl=5; h,r-ind=1,1
      [3,3]((3,20,25),(4,26,33),(2,13,16)); lvl=5; h,r-ind=1,1
      [4,3]((2,12,15),(1,6,8),(4,26,33),(2,13,16)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,19,24),(1,6,8),(4,26,33)); lvl=6; h,r-ind=1,1
        [3,3]((3,19,24),(2,13,16),(4,26,33)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,15),(3,19,24),(2,13,16)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,15),(3,19,24),(1,6,8)); lvl=6; h,r-ind=1,1
      [3,3]((3,20,25),(4,26,33),(2,13,17)); lvl=5; h,r-ind=1,1
      [3,3]((4,27,34),(3,20,25),(2,13,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(4,26,33),(2,13,17)); lvl=5; h,r-ind=1,1
      [3,3]((3,20,25),(5,34,42),(4,27,33)); lvl=5; h,r-ind=1,1
      [3,3]((4,27,34),(3,20,25),(5,34,42)); lvl=5; h,r-ind=1,1
    [3,3]((2,14,17),(4,27,33),(5,34,42)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,9),(2,14,17),(5,34,42),(4,27,34)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,17),(5,34,42),(6,41,51)); lvl=5; h,r-ind=1,1
      [3,3]((4,27,34),(5,34,42),(6,41,51)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,9),(2,14,17),(6,41,51)); lvl=5; h,r-ind=1,1
      [3,3]((4,27,34),(1,7,9),(6,41,51)); lvl=5; h,r-ind=1,1
  [4,3]((1,6,6),(1,8,8),(4,29,35),(2,12,15)); lvl=3; h,r-ind=3,1; alert-h-inc
    [4,3]((1,7,8),(2,14,17),(4,29,35),(5,37,43)); lvl=4; h,r-ind=1,1
      [4,3]((6,43,51),(2,14,17),(3,22,26),(4,29,35)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,14,17),(4,29,35),(5,36,43)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,26),(4,29,35),(5,36,43)); lvl=6; h,r-ind=1,1
        [3,3]((6,43,51),(3,22,26),(5,36,43)); lvl=6; h,r-ind=1,1
        [3,3]((6,43,51),(2,14,17),(5,36,43)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,8),(6,43,51),(3,22,26)); lvl=5; h,r-ind=1,1
      [3,3]((5,37,43),(1,7,8),(3,22,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,8),(6,43,51),(2,14,17)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,8),(1,8,8),(5,37,43)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((1,7,7),(1,7,8),(1,8,8)); lvl=4; h,r-ind=1,1
    [3,3]((4,27,33),(1,7,8),(2,14,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,7),(2,12,15),(4,27,33),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(2,13,16),(4,27,33)); lvl=5; h,r-ind=1,1
      [3,3]((4,26,31),(1,7,8),(2,13,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(4,26,31),(1,7,8)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,7),(4,26,31),(2,13,16),(2,12,15)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,26,31),(3,19,23),(2,13,16)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,15),(3,19,23),(2,13,16)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(4,26,31),(3,19,23)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,15),(1,6,7),(3,19,23)); lvl=6; h,r-ind=1,1
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  [4,3]((1,6,6),(1,7,7),(1,6,7),(1,7,8)); lvl=4; h,r-ind=1,1
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    [3,3]((1,6,6),(1,7,7),(2,13,14)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,7),(1,6,6),(2,13,14)); lvl=5; h,r-ind=1,1
[4,3]((2,11,16),(2,11,14),(2,12,15),(2,12,17)); lvl=3; h,r-ind=4,2; alert-h-inc; alert-r-inc
  [3,3]((1,6,8),(2,11,14),(2,12,15)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,8),(2,11,15),(2,11,14)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,16),(1,6,8),(2,11,15)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,16),(1,6,8),(2,12,17)); lvl=4; h,r-ind=1,1
[4,3]((1,6,6),(2,11,11),(2,11,14),(2,12,15)); lvl=3; h,r-ind=3,1; alert-h-inc
  [4,3]((1,6,6),(1,6,7),(2,11,11),(4,22,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(2,11,12),(4,23,25)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,6),(2,11,11),(2,11,12),(4,23,25)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,11,11),(3,17,18),(2,11,12)); lvl=6; h,r-ind=1,1
      [3,3]((4,23,25),(3,17,18),(2,11,12)); lvl=6; h,r-ind=1,1
      [3,3]((1,6,6),(4,23,25),(3,17,18)); lvl=6; h,r-ind=1,1
      [3,3]((1,6,6),(2,11,11),(3,17,18)); lvl=6; h,r-ind=1,1
    [3,3]((1,6,7),(1,6,6),(4,23,25)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,7),(4,22,25),(2,11,12)); lvl=5; h,r-ind=1,1
  [3,3]((1,6,7),(2,11,14),(4,22,25)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
  [3,3]((2,12,15),(1,6,7),(2,11,14)); lvl=4; h,r-ind=1,1
[4,3]((2,11,16),(2,12,17),(4,22,33),(1,6,9)); lvl=3; h,r-ind=1,2; alert-r-inc
  [3,3]((2,12,17),(3,17,25),(1,6,9)); lvl=4; h,r-ind=1,1
  [3,3]((4,22,33),(3,17,25),(1,6,9)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,16),(4,22,33),(3,17,25)); lvl=4; h,r-ind=1,1
  [3,3]((2,11,16),(2,12,17),(3,17,25)); lvl=4; h,r-ind=1,1
[4,3]((1,11,11),(1,8,8),(4,29,35),(2,19,22)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc
  [4,3]((4,29,35),(2,15,18),(1,8,9),(5,37,43)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,9),(2,15,18),(6,45,53)); lvl=5; h,r-ind=1,1
    [4,3]((3,22,26),(4,29,35),(2,15,18),(6,45,53)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,15,18),(5,37,44),(4,29,35)); lvl=6; h,r-ind=1,1
      [3,3]((3,22,26),(5,37,44),(4,29,35)); lvl=6; h,r-ind=1,1
      [3,3]((6,45,53),(2,15,18),(5,37,44)); lvl=6; h,r-ind=1,1
      [3,3]((3,22,26),(6,45,53),(5,37,44)); lvl=6; h,r-ind=1,1
    [3,3]((3,22,26),(1,8,9),(6,45,53)); lvl=5; h,r-ind=1,1
    [3,3]((5,37,43),(3,22,26),(1,8,9)); lvl=5; h,r-ind=1,1
  [3,3]((1,8,8),(1,8,9),(5,37,43)); lvl=4; h,r-ind=3,3; optimized-h
  [4,3]((2,19,19),(2,17,19),(1,8,8),(1,8,9)); lvl=4; h,r-ind=1,1
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      [3,3]((1,8,9),(1,8,8),(2,17,18)); lvl=6; h,r-ind=1,1
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    [4,3]((2,17,19),(3,26,28),(5,43,46),(1,8,9)); lvl=5; h,r-ind=1,1
      [3,3]((4,34,37),(3,26,28),(5,43,46)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,9),(4,34,37),(5,43,46)); lvl=6; h,r-ind=1,1
      [3,3]((2,17,19),(4,34,37),(3,26,28)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,9),(2,17,19),(4,34,37)); lvl=6; h,r-ind=1,1
    [3,3]((2,18,19),(2,17,19),(3,26,28)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,9),(2,18,19),(3,26,28),(5,43,46)); lvl=5; h,r-ind=1,1
      [3,3]((4,35,37),(3,26,28),(2,18,19)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,9),(4,35,37),(2,18,19)); lvl=6; h,r-ind=1,1
      [3,3]((5,43,46),(1,9,9),(4,35,37)); lvl=6; h,r-ind=1,1
      [3,3]((5,43,46),(4,35,37),(3,26,28)); lvl=6; h,r-ind=1,1
    [3,3]((2,19,19),(1,9,9),(2,18,19)); lvl=5; h,r-ind=1,1
  [4,3]((2,17,19),(4,33,39),(2,15,18),(1,8,9)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,9),(2,16,19),(7,57,66),(2,15,18)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((7,57,66),(3,24,28),(2,16,19)); lvl=6; h,r-ind=1,1
      [3,3]((2,15,18),(3,24,28),(2,16,19)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,9),(2,15,18),(3,24,28)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,9),(7,57,66),(3,24,28)); lvl=6; h,r-ind=1,1
    [4,3]((3,25,29),(2,16,19),(4,33,38),(7,57,66)); lvl=5; h,r-ind=1,1
      [3,3]((2,16,19),(7,57,66),(6,49,57)); lvl=6; h,r-ind=1,1
      [3,3]((4,33,38),(7,57,66),(6,49,57)); lvl=6; h,r-ind=1,1
      [3,3]((3,25,29),(4,33,38),(6,49,57)); lvl=6; h,r-ind=1,1
      [3,3]((3,25,29),(2,16,19),(6,49,57)); lvl=6; h,r-ind=1,1
    [4,3]((1,8,9),(2,17,19),(4,33,38),(7,57,66)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,19),(5,41,47),(4,33,38)); lvl=6; h,r-ind=1,1
      [3,3]((7,57,66),(5,41,47),(4,33,38)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,9),(7,57,66),(5,41,47)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,9),(2,17,19),(5,41,47)); lvl=6; h,r-ind=1,1
    [3,3]((4,33,39),(3,25,29),(2,16,19)); lvl=5; h,r-ind=1,1
    [3,3]((2,17,19),(3,25,29),(4,33,38)); lvl=5; h,r-ind=1,1
  [4,3]((1,10,11),(2,19,22),(2,17,19),(4,33,39)); lvl=4; h,r-ind=1,1
    [3,3]((2,17,20),(4,33,39),(3,25,29)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,10),(2,17,20),(3,25,29)); lvl=5; h,r-ind=1,1
    [3,3]((2,17,19),(1,9,10),(3,25,29)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,10),(2,17,20),(4,35,41)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,10),(1,10,11),(2,19,22),(4,35,41)); lvl=5; h,r-ind=1,1
```

```
            [4,3]((4,37,42),(2,18,21),(1,10,11),(2,19,22)); lvl=6; h,r-ind=1,2; alert-r-inc
              [3,3]((2,18,21),(3,28,32),(2,19,22)); lvl=7; h,r-ind=1,1
              [3,3]((1,10,11),(3,28,32),(2,19,22)); lvl=7; h,r-ind=1,1
              [3,3]((4,37,42),(2,18,21),(3,28,32)); lvl=7; h,r-ind=1,1
              [3,3]((1,10,11),(4,37,42),(3,28,32)); lvl=7; h,r-ind=1,1
            [3,3]((1,9,10),(4,37,42),(1,10,11)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,10),(4,37,42),(2,18,21)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,10),(4,35,41),(2,18,21)); lvl=6; h,r-ind=1,1
        [4,3]((1,11,11),(2,19,19),(1,10,11),(2,17,19)); lvl=4; h,r-ind=3,1
          [3,3]((2,17,19),(1,9,10),(2,18,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,10,10),(1,9,10),(2,18,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,19,19),(1,10,10),(2,18,19)); lvl=5; h,r-ind=1,1
          [4,3]((1,11,11),(1,10,11),(1,10,10),(1,9,10)); lvl=5; h,r-ind=1,1
            [3,3]((1,10,11),(1,9,10),(2,20,21)); lvl=6; h,r-ind=1,1
            [3,3]((1,10,10),(1,9,10),(2,20,21)); lvl=6; h,r-ind=1,1
            [3,3]((1,11,11),(1,10,11),(2,20,21)); lvl=6; h,r-ind=1,1
            [3,3]((1,10,10),(1,11,11),(2,20,21)); lvl=6; h,r-ind=1,1
    [3,3]((1,6,11),(1,8,11),(1,6,9)); lvl=2; h,r-ind=4,2; optimized-h
  [3,3]((0,1,0),(1,11,22),(1,11,11)); lvl=1; h,r-ind=11,11; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,11,11)); lvl=1; h,r-ind=11,11; optimized-h
```

22.18 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,22)); lvl=0; h,r-ind=22,242
  [4,3]((2,3,19),(3,4,28),(3,4,27),(2,3,21)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,28),(3,4,27),(8,11,75)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,20),(2,3,19),(3,4,27),(8,11,75)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,7,47),(3,4,27),(2,3,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,20),(5,7,47),(2,3,19)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,75),(5,7,47),(3,4,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,20),(8,11,75),(5,7,47)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,21),(2,3,20),(3,4,28),(8,11,75)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,7,48),(8,11,75),(2,3,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,21),(5,7,48),(2,3,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,28),(2,3,21),(5,7,48)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,28),(5,7,48),(8,11,75)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,11),(1,2,10),(2,3,19),(2,3,21)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,10),(4,7,41),(2,3,19),(2,3,20)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,19),(3,5,30),(2,3,20)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,41),(3,5,30),(2,3,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,10),(4,7,41),(3,5,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,10),(2,3,19),(3,5,30)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,21),(1,2,11),(4,7,41),(2,3,20)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,31),(4,7,41),(1,2,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,21),(3,5,31),(1,2,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,31),(2,3,20),(4,7,41)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,21),(3,5,31),(2,3,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,11),(1,2,10),(4,7,41)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,22),(1,2,11),(2,3,21)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,11),(1,2,10)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,10),(2,3,19),(2,3,11)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,15),(2,3,19),(1,2,9),(2,3,15)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,9),(1,2,8),(2,3,19),(2,3,17)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,8),(4,7,35),(2,3,17),(2,3,18)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,26),(2,3,18),(2,3,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,8),(3,5,26),(2,3,17)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,26),(4,7,35),(2,3,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,8),(3,5,26),(4,7,35)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,9),(4,7,35),(2,3,19),(2,3,18)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,19),(3,5,27),(2,3,18)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,35),(3,5,27),(2,3,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,9),(4,7,35),(3,5,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,9),(2,3,19),(3,5,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,9),(1,2,8),(4,7,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,15),(1,2,8),(2,3,17)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,4,15),(2,3,15),(1,2,8)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,15),(2,3,11),(1,2,6),(2,3,15)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,7),(1,2,6),(2,3,11),(2,3,13)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,6),(4,7,25),(2,3,11),(2,3,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,11),(2,3,12),(3,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,25),(2,3,12),(3,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(4,7,25),(3,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(2,3,11),(3,5,18)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,13),(1,2,7),(4,7,25),(2,3,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,19),(4,7,25),(1,2,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,13),(3,5,19),(1,2,7)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,19),(2,3,12),(4,7,25)); lvl=5; h,r-ind=1,1
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          [3,3]((2,3,13),(3,5,19),(2,3,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(1,2,6),(4,7,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(2,3,15),(2,3,13)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,4,15),(1,2,7),(2,3,15)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,11),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,15),(1,2,6)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,4,15),(1,2,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,10),(2,3,19),(1,2,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,10),(1,2,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,22),(3,4,28),(2,3,21)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,28),(1,1,7),(3,4,27)); lvl=1; h,r-ind=1,1
  [5,3]((2,3,19),(1,1,4),(2,3,11),(1,1,7),(3,4,27)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,19),(3,4,26),(3,4,21),(2,3,15)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,17),(2,3,15),(6,8,47),(3,4,21)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,17),(3,4,23),(6,8,47)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,17),(2,3,16),(6,8,45),(3,4,23)); lvl=4; h,r-ind=1,1
          [3,3]((2,3,16),(5,7,39),(6,8,45)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,23),(5,7,39),(6,8,45)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,17),(3,4,23),(5,7,39)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,17),(2,3,16),(5,7,39)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,15),(2,3,16),(3,4,21),(6,8,45)); lvl=4; h,r-ind=1,1
          [3,3]((2,3,16),(3,4,22),(6,8,45)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,16),(3,4,22),(7,10,53)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,16),(2,3,15),(7,10,53)); lvl=5; h,r-ind=1,1
          [4,3]((2,3,15),(3,4,21),(3,4,22),(7,10,53)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,4,21),(3,4,22),(5,7,37)); lvl=6; h,r-ind=1,1
            [3,3]((7,10,53),(3,4,22),(5,7,37)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,15),(7,10,53),(5,7,37)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,15),(3,4,21),(5,7,37)); lvl=6; h,r-ind=1,1
      [4,3]((2,3,19),(2,3,17),(3,4,26),(6,8,47)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,17),(3,4,24),(6,8,47)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,18),(2,3,17),(6,8,49),(3,4,24)); lvl=4; h,r-ind=1,1
          [3,3]((5,7,42),(6,8,49),(3,4,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,17),(5,7,42),(3,4,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,18),(2,3,17),(5,7,42)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,18),(5,7,42),(6,8,49)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,18),(2,3,19),(3,4,26),(6,8,49)); lvl=4; h,r-ind=1,1
          [4,3]((3,4,25),(2,3,19),(7,10,62),(3,4,26)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((7,10,62),(5,7,44),(2,3,19)); lvl=6; h,r-ind=1,1
            [3,3]((3,4,26),(5,7,44),(2,3,19)); lvl=6; h,r-ind=1,1
            [3,3]((3,4,25),(7,10,62),(5,7,44)); lvl=6; h,r-ind=1,1
            [3,3]((3,4,26),(3,4,25),(5,7,44)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,18),(3,4,25),(7,10,62)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,18),(6,8,49),(3,4,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,18),(2,3,19),(7,10,62)); lvl=5; h,r-ind=1,1
    [5,3]((1,1,4),(2,2,11),(2,3,11),(3,4,21),(2,3,15)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,4),(1,1,5),(2,3,11),(2,3,13)); lvl=3; h,r-ind=1,1
        [4,3]((1,1,5),(4,5,21),(2,3,12),(2,3,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,17),(4,5,21),(2,3,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,13),(3,4,17),(2,3,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(2,3,13),(3,4,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(3,4,17),(4,5,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(1,1,5),(4,5,21)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,4),(4,5,21),(2,3,11),(2,3,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,12),(2,3,11),(3,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(2,3,11),(3,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,21),(2,3,12),(3,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(4,5,21),(3,4,16)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,5),(6,8,41),(2,3,15),(2,3,13)); lvl=3; h,r-ind=1,1
        [3,3]((6,8,41),(3,4,20),(2,3,15)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,14),(6,8,39),(3,4,20),(2,3,15)); lvl=4; h,r-ind=1,1
          [3,3]((5,7,34),(3,4,20),(6,8,39)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,14),(5,7,34),(6,8,39)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,34),(2,3,15),(3,4,20)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,14),(5,7,34),(2,3,15)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,5),(2,3,13),(2,3,14),(6,8,39)); lvl=4; h,r-ind=1,1
          [3,3]((2,3,13),(3,4,19),(2,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((6,8,39),(3,4,19),(2,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(6,8,39),(3,4,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(2,3,13),(3,4,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,5),(6,8,39),(3,4,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(6,8,41),(3,4,20)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,41),(3,4,21),(2,3,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,5),(6,8,41),(2,2,11),(3,4,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,5,26),(6,8,41),(3,4,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,11),(4,5,26),(3,4,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(2,2,11),(4,5,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(4,5,26),(6,8,41)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,27),(2,3,19),(3,4,26)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,11),(1,1,7),(3,4,26),(3,4,21)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((1,1,6),(1,1,7),(6,8,47),(3,4,26)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,7),(6,7,44),(3,4,26),(6,8,49)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((4,5,31),(3,4,25),(9,11,70)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,1,7),(3,4,26),(3,4,25),(9,11,70)); lvl=5; h,r-ind=1,3
          [3,3]((3,4,25),(4,5,32),(3,4,26)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,7),(4,5,32),(3,4,26)); lvl=6; h,r-ind=1,1
          [3,3]((9,11,70),(3,4,25),(4,5,32)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,7),(9,11,70),(4,5,32)); lvl=6; h,r-ind=1,1
        [4,3]((1,1,7),(6,7,44),(4,5,31),(9,11,70)); lvl=5; h,r-ind=1,3
          [3,3]((5,6,38),(4,5,31),(6,7,44)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,7),(5,6,38),(6,7,44)); lvl=6; h,r-ind=1,1
          [3,3]((9,11,70),(5,6,38),(4,5,31)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,7),(9,11,70),(5,6,38)); lvl=6; h,r-ind=1,1
        [3,3]((4,5,31),(6,8,49),(3,4,25)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,6),(6,7,44),(3,4,24),(6,8,49)); lvl=4; h,r-ind=1,1
        [4,3]((4,5,31),(8,10,61),(3,4,24),(6,8,49)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((7,9,55),(3,4,24),(8,10,61)); lvl=6; h,r-ind=1,1
          [3,3]((4,5,31),(7,9,55),(8,10,61)); lvl=6; h,r-ind=1,1
          [3,3]((7,9,55),(6,8,49),(3,4,24)); lvl=6; h,r-ind=1,1
          [3,3]((4,5,31),(7,9,55),(6,8,49)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,6),(4,5,31),(8,10,61)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,6),(4,5,31),(6,7,44)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,6),(8,10,61),(3,4,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,6),(6,8,47),(3,4,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,6),(1,1,7),(6,7,44)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,21),(1,1,6),(6,8,47)); lvl=3; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,4,21),(2,2,11),(1,1,6)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,27),(1,1,7),(3,4,26)); lvl=2; h,r-ind=1,1
[3,3]((1,1,4),(1,0,0),(1,1,7)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((2,3,22),(1,0,0),(1,1,7)); lvl=1; h,r-ind=1,1
[4,3]((0,1,0),(1,1,4),(2,3,11),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,13),(2,3,11),(1,1,4),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(2,3,11),(3,4,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(2,3,11),(3,4,14)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,13),(2,3,10),(3,4,14)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,13),(1,1,4),(3,4,14)); lvl=3; h,r-ind=1,1
  [6,3]((3,4,13),(3,4,12),(2,3,8),(3,5,15),(3,5,13),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(2,3,8),(3,4,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,13),(2,3,9),(3,4,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,13),(2,3,10),(2,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,13),(2,3,9),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,14),(3,5,13),(2,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,14),(3,5,15),(2,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(3,5,15),(2,3,9)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(3,5,15),(3,5,13),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(6,11,27),(3,5,14),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,27),(5,9,23),(4,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,14),(5,9,23),(4,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(3,5,14),(5,9,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(6,11,27),(5,9,23)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,13),(3,5,14),(4,7,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(6,11,27),(3,5,13),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,27),(5,9,22),(4,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,13),(5,9,22),(4,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,13),(5,9,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(6,11,27),(5,9,22)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(1,2,5),(0,1,0),(6,11,27)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((0,1,0),(2,4,9),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((6,11,27),(2,4,9),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(6,11,27),(2,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(0,1,0),(2,4,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(3,5,15),(3,5,14)); lvl=3; h,r-ind=1,1
  [5,3]((2,3,8),(1,2,3),(4,6,11),(3,5,13),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,3),(4,6,11)); lvl=3; h,r-ind=1,1
    [5,3]((4,6,13),(2,3,6),(6,10,21),(6,11,21),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((8,14,27),(4,7,14),(6,11,21),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,17),(4,7,14),(6,11,21)); lvl=5; h,r-ind=1,1
        [3,3]((5,9,17),(1,2,3),(6,11,21)); lvl=5; h,r-ind=1,1
        [3,3]((8,14,27),(5,9,17),(1,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((8,14,27),(5,9,17),(4,7,14)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,10),(8,14,27),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(3,5,10),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,13),(2,3,6),(3,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,10),(8,14,27),(4,7,14)); lvl=4; h,r-ind=1,1
      [4,3]((5,8,17),(3,5,10),(6,10,21),(4,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,10),(4,7,14),(9,15,31)); lvl=5; h,r-ind=1,1
        [3,3]((6,10,21),(4,7,14),(9,15,31)); lvl=5; h,r-ind=1,1
        [3,3]((5,8,17),(6,10,21),(9,15,31)); lvl=5; h,r-ind=1,1
        [3,3]((5,8,17),(3,5,10),(9,15,31)); lvl=5; h,r-ind=1,1
      [3,3]((4,6,13),(5,8,17),(3,5,10)); lvl=4; h,r-ind=1,1
```

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    [3,3]((6,11,21),(1,2,4),(1,2,3)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,8),(4,6,13),(6,10,21),(3,5,12)); lvl=3; h,r-ind=3,1; alert-h-inc
      [3,3]((3,5,11),(6,10,21),(5,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(3,5,11),(5,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(4,6,13),(5,8,17)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,12),(2,3,8),(2,3,7),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(2,3,7),(5,8,19)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,11),(2,3,7),(5,8,19)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,12),(2,3,8),(5,8,19)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,11),(3,5,12),(5,8,19)); lvl=5; h,r-ind=1,1
    [4,3]((6,10,21),(6,11,21),(3,5,12),(1,2,4)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((4,7,14),(6,11,21),(1,2,4),(9,16,33)); lvl=4; h,r-ind=1,3
        [3,3]((5,9,18),(6,11,21),(1,2,4)); lvl=5; h,r-ind=1,1
        [3,3]((9,16,33),(5,9,18),(1,2,4)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,14),(9,16,33),(5,9,18)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,14),(5,9,18),(6,11,21)); lvl=5; h,r-ind=1,1
      [4,3]((3,5,11),(3,5,12),(1,2,4),(9,16,33)); lvl=4; h,r-ind=1,3
        [3,3]((4,7,15),(1,2,4),(3,5,12)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,11),(4,7,15),(3,5,12)); lvl=5; h,r-ind=1,1
        [3,3]((9,16,33),(4,7,15),(1,2,4)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,11),(9,16,33),(4,7,15)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,11),(4,7,14),(9,16,33)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((6,10,21),(3,5,11),(4,7,14)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,13),(3,5,12),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,8),(3,5,13),(3,5,12)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,3),(3,4,13),(3,4,12),(1,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(3,4,13),(4,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,4),(3,4,13),(4,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,12),(4,5,16)); lvl=3; h,r-ind=1,1
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  [3,3]((1,0,0),(1,1,3),(1,1,4)); lvl=2; h,r-ind=1,1
  [5,3]((1,1,3),(3,4,12),(2,3,8),(1,1,2),(4,6,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(4,6,11)); lvl=3; h,r-ind=1,1
    [5,3]((1,1,2),(6,8,19),(6,7,17),(4,6,13),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(4,6,13),(2,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(1,1,2),(2,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(8,10,23),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,12),(3,4,9),(8,10,23)); lvl=4; h,r-ind=1,1
      [4,3]((6,7,17),(4,5,12),(8,10,23),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,14),(4,5,12),(8,10,23)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,14),(1,1,2),(8,10,23)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,17),(5,6,14),(1,1,2)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,17),(5,6,14),(4,5,12)); lvl=5; h,r-ind=1,1
      [3,3]((5,7,16),(3,4,9),(4,6,13)); lvl=4; h,r-ind=1,1
      [4,3]((6,8,19),(5,7,16),(4,5,12),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((9,12,28),(3,4,9),(5,7,16)); lvl=5; h,r-ind=1,1
        [3,3]((6,8,19),(9,12,28),(5,7,16)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,12),(9,12,28),(3,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((6,8,19),(4,5,12),(9,12,28)); lvl=5; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,2),(6,7,17)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,11),(2,3,8),(6,8,19),(4,6,13)); lvl=3; h,r-ind=3,1; alert-h-inc
      [3,3]((2,3,7),(5,7,16),(4,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(2,3,7),(5,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(6,8,19),(5,7,16)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,11),(3,4,10),(2,3,8),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(2,3,8),(5,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,11),(2,3,8),(5,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,10),(3,4,11),(5,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,10),(2,3,7),(5,7,18)); lvl=5; h,r-ind=1,1
    [3,3]((3,4,11),(3,4,12),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,11),(3,4,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,3),(3,4,11),(6,8,19),(6,7,17)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,4,10),(4,5,12),(9,11,28)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,1,3),(3,4,11),(3,4,10),(9,11,28)); lvl=4; h,r-ind=1,3
        [3,3]((4,5,13),(3,4,10),(3,4,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(4,5,13),(3,4,11)); lvl=5; h,r-ind=1,1
        [3,3]((9,11,28),(4,5,13),(3,4,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(9,11,28),(4,5,13)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,3),(6,7,17),(4,5,12),(9,11,28)); lvl=4; h,r-ind=1,3
        [3,3]((4,5,12),(5,6,15),(6,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(5,6,15),(6,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((9,11,28),(4,5,12),(5,6,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(9,11,28),(5,6,15)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,10),(4,5,12),(6,8,19)); lvl=4; h,r-ind=1,1
  [5,3]((0,1,0),(1,0,0),(1,2,3),(1,1,2),(4,6,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(4,6,11),(1,1,2)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,6),(2,3,5),(4,6,9),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(4,6,9),(5,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(4,6,9),(5,7,11)); lvl=4; h,r-ind=1,1
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        [3,3]((1,1,2),(3,4,6),(5,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(2,3,5),(5,7,11)); lvl=4; h,r-ind=1,1
      [4,3]((2,2,3),(4,5,7),(3,4,6),(1,1,2)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,7),(5,6,9),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(5,6,9),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(4,5,7),(5,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(2,2,3),(5,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,3,3),(2,2,3),(4,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((5,6,8),(3,4,5),(4,5,7)); lvl=4; h,r-ind=1,1
        [4,3]((2,2,3),(5,6,8),(8,9,12),(4,5,7)); lvl=4; h,r-ind=1,1
          [3,3]((7,8,11),(8,9,12),(5,6,8)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,7),(7,8,11),(5,6,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(4,5,7),(7,8,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(7,8,11),(8,9,12)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,1),(1,0,0),(2,2,3),(8,9,12)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((8,9,12),(2,2,3),(3,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(8,9,12),(3,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,1),(5,6,8),(8,9,12),(3,4,5)); lvl=4; h,r-ind=1,1
          [3,3]((6,7,9),(8,9,12),(5,6,8)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,5),(6,7,9),(5,6,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(3,4,5),(6,7,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(6,7,9),(8,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(2,3,3),(3,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,2,3),(2,3,5),(4,6,9),(3,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,5),(4,6,9),(5,8,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,7),(4,6,9),(5,8,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,3,5),(5,8,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,7),(1,2,3),(5,8,12)); lvl=4; h,r-ind=1,1
      [6,3]((2,3,3),(4,5,7),(1,2,2),(3,4,6),(4,6,9),(3,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,4),(4,6,9),(3,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(1,2,2),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,6),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(2,3,4),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(4,6,11)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,2,2),(1,2,3),(3,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((2,4,5),(1,2,2),(3,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(1,2,3),(3,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,15),(2,3,11),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,5,15),(2,3,11)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,3,22),(3,4,28),(1,1,7)); lvl=1; h,r-ind=1,1
```

22.19 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,5,22)); lvl=0; h,r-ind=22,242
  [5,3]((1,2,8),(1,1,4),(2,2,5),(2,5,17),(2,5,11)); lvl=1; h,r-ind=3,3
    [4,3]((1,2,5),(1,1,3),(2,2,5),(4,7,16)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,7),(1,1,3),(2,2,5),(4,6,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,1,3),(3,4,10),(2,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(3,4,10),(2,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(2,3,7),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(1,1,3),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,7),(4,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,7),(4,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,1,3),(4,6,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,5,11),(4,7,16)); lvl=2; h,r-ind=3,3; optimized-h
    [4,3]((1,2,5),(1,2,6),(2,5,11),(2,5,14)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,6),(5,11,29),(2,5,14),(4,10,25)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,5,13),(3,7,18),(7,16,43)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,6),(2,5,14),(2,5,13),(7,16,43)); lvl=4; h,r-ind=1,3
          [3,3]((2,5,13),(3,7,19),(2,5,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(3,7,19),(2,5,14)); lvl=5; h,r-ind=1,1
          [3,3]((7,16,43),(2,5,13),(3,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(7,16,43),(3,7,19)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,6),(5,11,29),(3,7,18),(7,16,43)); lvl=4; h,r-ind=1,3
          [3,3]((4,9,24),(5,11,29),(3,7,18)); lvl=5; h,r-ind=1,1
          [3,3]((7,16,43),(4,9,24),(3,7,18)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((1,2,6),(7,16,43),(4,9,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(4,9,24),(5,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,13),(3,7,18),(4,10,25)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,5),(5,11,29),(2,5,11),(4,10,25)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,7,18),(2,5,12),(4,10,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,18),(7,16,40),(2,5,12)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,5),(2,5,11),(7,16,40),(2,5,12)); lvl=4; h,r-ind=1,3
          [3,3]((3,7,17),(2,5,11),(2,5,12)); lvl=5; h,r-ind=1,1
          [3,3]((7,16,40),(3,7,17),(2,5,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(7,16,40),(3,7,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(3,7,17),(2,5,11)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,5),(5,11,29),(3,7,18),(7,16,40)); lvl=4; h,r-ind=1,3
          [3,3]((4,9,23),(3,7,18),(5,11,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(4,9,23),(5,11,29)); lvl=5; h,r-ind=1,1
          [3,3]((7,16,40),(4,9,23),(3,7,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(7,16,40),(4,9,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,6),(5,11,29)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,17),(1,2,7),(1,2,6),(2,5,14)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,7),(1,2,6),(5,11,35)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,14),(4,10,31),(1,2,6),(5,11,35)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((7,16,49),(1,2,6),(5,11,35),(3,7,22)); lvl=4; h,r-ind=1,3
          [3,3]((1,2,6),(5,11,35),(4,9,28)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,22),(5,11,35),(4,9,28)); lvl=5; h,r-ind=1,1
          [3,3]((7,16,49),(1,2,6),(4,9,28)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,22),(7,16,49),(4,9,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,15),(7,16,49),(3,7,22)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,5,15),(4,10,31),(3,7,22)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,15),(2,5,14),(7,16,49),(1,2,6)); lvl=4; h,r-ind=1,3
          [3,3]((1,2,6),(2,5,14),(3,7,21)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(2,5,14),(3,7,21)); lvl=5; h,r-ind=1,1
          [3,3]((7,16,49),(1,2,6),(3,7,21)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(7,16,49),(3,7,21)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,17),(4,10,31),(1,2,7),(5,11,35)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,2,7),(7,16,52),(3,7,22),(5,11,35)); lvl=4; h,r-ind=1,3
          [3,3]((3,7,22),(4,9,29),(7,16,52)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,7),(4,9,29),(7,16,52)); lvl=5; h,r-ind=1,1
          [3,3]((5,11,35),(1,2,7),(4,9,29)); lvl=5; h,r-ind=1,1
          [3,3]((5,11,35),(3,7,22),(4,9,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,16),(7,16,52),(3,7,22)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,7),(2,5,17),(2,5,16),(7,16,52)); lvl=4; h,r-ind=1,3
          [3,3]((2,5,16),(3,7,23),(2,5,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,7),(3,7,23),(2,5,17)); lvl=5; h,r-ind=1,1
          [3,3]((7,16,52),(2,5,16),(3,7,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,7),(7,16,52),(3,7,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,16),(3,7,22),(4,10,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,8),(2,5,17),(1,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,6),(1,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,4),(1,2,7),(1,2,6),(1,1,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,7),(1,2,6),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,2,6),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(1,2,7),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,4),(2,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,4),(1,2,8),(1,2,7)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,3,9),(2,5,17),(2,5,11)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,7),(2,5,17),(1,3,8),(2,5,14)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,8),(5,14,38),(4,10,31),(2,5,17)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,5,16),(3,8,23),(4,10,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,16),(3,8,23),(7,19,55)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,3,8),(3,8,23),(5,14,38),(7,19,55)); lvl=4; h,r-ind=1,3
          [3,3]((5,14,38),(4,11,31),(3,8,23)); lvl=5; h,r-ind=1,1
          [3,3]((7,19,55),(4,11,31),(3,8,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(7,19,55),(4,11,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(5,14,38),(4,11,31)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,8),(2,5,17),(2,5,16),(7,19,55)); lvl=4; h,r-ind=1,3
          [3,3]((3,8,24),(2,5,17),(2,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((7,19,55),(3,8,24),(2,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(7,19,55),(3,8,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(3,8,24),(2,5,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,8),(5,14,38)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,14),(1,3,7),(5,14,38),(4,10,31)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((7,19,52),(3,8,23),(1,3,7),(5,14,38)); lvl=4; h,r-ind=1,3
          [3,3]((3,8,23),(4,11,30),(5,14,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(4,11,30),(5,14,38)); lvl=5; h,r-ind=1,1
          [3,3]((7,19,52),(1,3,7),(4,11,30)); lvl=5; h,r-ind=1,1
          [3,3]((7,19,52),(3,8,23),(4,11,30)); lvl=5; h,r-ind=1,1
        [4,3]((2,5,15),(2,5,14),(7,19,52),(1,3,7)); lvl=4; h,r-ind=1,3
          [3,3]((3,8,22),(2,5,14),(1,3,7)); lvl=5; h,r-ind=1,1
          [3,3]((7,19,52),(3,8,22),(1,3,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(7,19,52),(3,8,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,15),(3,8,22),(2,5,14)); lvl=5; h,r-ind=1,1
```

```
      [3,3]((2,5,15),(7,19,52),(3,8,23)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,5,15),(4,10,31),(3,8,23)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,6),(1,3,7),(2,5,11),(2,5,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,7),(5,14,32),(2,5,14),(4,10,25)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,8,19),(2,5,13),(4,10,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,19),(2,5,13),(7,19,46)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,3,7),(5,14,32),(3,8,19),(7,19,46)); lvl=4; h,r-ind=1,3
        [3,3]((5,14,32),(4,11,26),(3,8,19)); lvl=5; h,r-ind=1,1
        [3,3]((7,19,46),(4,11,26),(3,8,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(7,19,46),(4,11,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(5,14,32),(4,11,26)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,7),(2,5,14),(2,5,13),(7,19,46)); lvl=4; h,r-ind=1,3
        [3,3]((3,8,20),(2,5,14),(2,5,13)); lvl=5; h,r-ind=1,1
        [3,3]((7,19,46),(3,8,20),(2,5,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(7,19,46),(3,8,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(3,8,20),(2,5,14)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,6),(5,14,32),(2,5,11),(4,10,25)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,8,19),(2,5,12),(7,19,43)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,3,6),(2,5,11),(2,5,12),(7,19,43)); lvl=4; h,r-ind=1,3
        [3,3]((3,8,18),(2,5,12),(2,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(3,8,18),(2,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((7,19,43),(3,8,18),(2,5,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(7,19,43),(3,8,18)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,6),(5,14,32),(3,8,19),(7,19,43)); lvl=4; h,r-ind=1,3
        [3,3]((5,14,32),(4,11,25),(3,8,19)); lvl=5; h,r-ind=1,1
        [3,3]((7,19,43),(4,11,25),(3,8,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(7,19,43),(4,11,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(5,14,32),(4,11,25)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,19),(4,10,25),(2,5,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,7),(5,14,32)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,6),(2,5,11)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,6),(1,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,7),(1,3,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,9),(2,5,17),(1,3,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,9),(1,3,8)); lvl=2; h,r-ind=1,1
[3,3]((1,3,11),(0,1,0),(1,3,9)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((0,1,0),(1,0,0),(2,2,5),(2,5,11)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,6),(1,1,2),(4,7,16),(2,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((7,10,22),(2,3,7),(2,2,5),(1,1,2)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,3,7),(2,2,5),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,5),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((7,10,22),(2,3,7),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(7,10,22),(3,4,9)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,6),(4,6,13),(7,10,22),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(7,10,22),(5,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(7,10,22),(5,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(4,6,13),(5,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(5,7,15)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,11),(2,3,6),(4,6,13)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,11),(4,6,13),(7,10,22),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(7,10,22),(6,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(7,10,22),(6,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,11),(4,6,13),(6,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(3,5,11),(6,9,20)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,11),(2,3,7),(4,7,16)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,2),(1,0,0),(2,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,2,3),(1,1,2),(1,0,0)); lvl=2; h,r-ind=1,1
  [5,3]((0,1,0),(2,2,3),(2,4,5),(1,3,3),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(0,1,0),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,3),(2,3,4),(2,3,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(3,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(0,1,0)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(0,1,0)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,2),(1,3,3)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,4),(2,4,5),(1,2,2),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(2,4,5),(1,2,2)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,3),(3,5,6),(1,2,2)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,6),(2,4,5)); lvl=4; h,r-ind=1,1
  [5,3]((2,2,3),(2,4,5),(1,2,3),(2,3,6),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
    [6,3]((5,7,11),(3,4,6),(5,8,12),(6,9,14),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(4,6,9),(3,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((5,8,12),(4,6,9),(3,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((6,9,14),(5,8,12),(4,6,9)); lvl=4; h,r-ind=1,1
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      [3,3]((5,7,11),(6,9,14),(4,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(2,3,4),(4,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(3,4,6),(4,6,9)); lvl=4; h,r-ind=1,1
    [4,3]((5,8,12),(1,2,3),(6,9,14),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(2,3,5),(7,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,8,12),(1,2,3),(7,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,2),(5,7,11),(6,9,14),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,10,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(5,7,11),(7,10,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(1,1,2),(7,10,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(3,4,6),(2,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,3),(1,1,2),(5,7,11),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(5,7,11),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(3,4,6),(5,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(3,4,6)); lvl=4; h,r-ind=1,1
    [4,3]((5,8,12),(1,2,3),(2,4,5),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,7),(2,4,5),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((5,8,12),(3,5,7),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((5,8,12),(1,2,3),(4,7,10)); lvl=4; h,r-ind=1,1
  [4,3]((2,5,11),(2,5,10),(2,3,6),(4,7,16)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc
    [3,3]((2,3,6),(1,2,4),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(1,2,4),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,16),(2,4,9),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(2,4,9),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(2,5,10),(1,2,4)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,10),(1,2,3),(2,5,7),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,7),(4,9,15),(6,13,22)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,11),(5,11,18),(9,20,32),(4,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((8,18,29),(9,20,32),(5,11,18)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,15),(8,18,29),(5,11,18)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,11),(4,9,15),(8,18,29)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,11),(8,18,29),(9,20,32)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,3),(2,5,7),(3,7,11),(9,20,32)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,11),(2,5,7),(4,9,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(2,5,7),(4,9,14)); lvl=5; h,r-ind=1,1
        [3,3]((9,20,32),(3,7,11),(4,9,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(9,20,32),(4,9,14)); lvl=5; h,r-ind=1,1
      [3,3]((6,13,22),(5,11,18),(4,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(6,13,22),(5,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,18),(9,20,32)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(3,7,12),(4,9,15),(6,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(5,11,19),(4,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((6,13,22),(5,11,19),(4,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(6,13,22),(5,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,12),(5,11,19)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,6),(1,2,4),(1,2,3),(6,13,22)); lvl=3; h,r-ind=1,4; alert-r-inc
      [3,3]((2,4,7),(1,2,4),(6,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(1,2,3),(6,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(2,4,7),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(2,4,7),(1,2,4)); lvl=4; h,r-ind=1,1
    [4,3]((4,10,17),(3,7,12),(2,5,7),(4,9,15)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,12),(4,9,15),(6,14,23),(11,26,43)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,15),(9,21,35),(6,14,23)); lvl=5; h,r-ind=1,1
        [3,3]((11,26,43),(9,21,35),(6,14,23)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,12),(11,26,43),(9,21,35)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,12),(4,9,15),(9,21,35)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,8),(3,7,11),(6,14,23),(11,26,43)); lvl=4; h,r-ind=1,1
        [3,3]((8,19,31),(3,7,11),(6,14,23)); lvl=5; h,r-ind=1,1
        [3,3]((11,26,43),(8,19,31),(6,14,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,8),(11,26,43),(8,19,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,8),(8,19,31),(3,7,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,8),(2,5,7),(3,7,11)); lvl=4; h,r-ind=1,1
      [4,3]((4,10,17),(2,5,8),(3,7,12),(11,26,43)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((5,12,20),(2,5,8),(11,26,43)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,12),(5,12,20),(11,26,43)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,17),(5,12,20),(2,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,12),(4,10,17),(5,12,20)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,11),(4,9,15),(6,14,23)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(2,5,10),(4,10,17),(3,7,12)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,12),(2,5,9),(4,10,17),(6,14,25)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,21),(2,5,9),(4,10,17)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,12),(5,12,21),(4,10,17)); lvl=5; h,r-ind=1,1
        [3,3]((6,14,25),(3,7,12),(5,12,21)); lvl=5; h,r-ind=1,1
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          [3,3]((6,14,25),(5,12,21),(2,5,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(3,7,12),(6,14,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(2,5,9),(6,14,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(2,5,9),(2,5,10)); lvl=4; h,r-ind=1,1
    [4,3]((2,4,5),(1,2,3),(2,5,7),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,6),(1,2,3),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(1,3,3),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,5,6),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,5,6),(1,2,3)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(2,5,10),(2,5,7),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((4,10,17),(1,3,4),(2,5,7)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,3,3),(1,3,4),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,10),(1,3,5),(4,10,17),(1,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,5),(4,11,18),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(4,11,18),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(4,10,17),(1,3,4)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,10),(2,5,9),(1,3,5),(4,11,18)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,9),(4,11,18),(3,8,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,5),(4,11,18),(3,8,14)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,10),(2,5,9),(3,8,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,5),(2,5,10),(3,8,14)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(0,1,0),(2,5,10)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(1,1,4),(3,4,17)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,4),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((1,2,8),(5,11,47),(2,5,21),(3,7,30),(2,5,17)); lvl=1; h,r-ind=1,1
    [3,3]((4,9,38),(3,7,30),(5,11,47)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,8),(4,9,38),(5,11,47)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,8),(4,9,36),(4,9,37)); lvl=2; h,r-ind=1,1
    [4,3]((7,16,67),(6,14,59),(4,9,38),(3,7,30)); lvl=2; h,r-ind=1,1
      [3,3]((6,14,59),(3,7,30),(10,23,97)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,38),(3,7,30),(10,23,97)); lvl=3; h,r-ind=1,1
      [3,3]((7,16,67),(4,9,38),(10,23,97)); lvl=3; h,r-ind=1,1
      [3,3]((7,16,67),(6,14,59),(10,23,97)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,8),(7,16,67),(4,9,38),(4,9,37)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,38),(7,16,67),(8,18,75)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,37),(7,16,67),(8,18,75)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(4,9,38),(8,18,75)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,37),(1,2,8),(8,18,75)); lvl=3; h,r-ind=1,1
    [3,3]((6,14,59),(3,7,30),(2,5,21)); lvl=2; h,r-ind=1,1
    [6,3]((7,16,67),(6,14,59),(2,5,19),(4,9,36),(4,9,37),(2,5,21)); lvl=2; h,r-ind=1,1
      [4,3]((6,14,57),(3,7,29),(4,9,37),(7,16,65)); lvl=3; h,r-ind=1,1
        [3,3]((10,23,94),(4,9,37),(3,7,29)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,57),(10,23,94),(3,7,29)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,65),(6,14,57),(10,23,94)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,65),(10,23,94),(4,9,37)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,36),(4,9,37),(7,16,65)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,28),(6,14,57),(4,9,36),(7,16,65)); lvl=3; h,r-ind=1,1
        [3,3]((10,23,93),(7,16,65),(6,14,57)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,28),(10,23,93),(6,14,57)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,36),(3,7,28),(10,23,93)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,36),(10,23,93),(7,16,65)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,19),(3,7,28),(4,9,36)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,19),(2,5,20),(3,7,28),(6,14,57)); lvl=3; h,r-ind=1,1
        [3,3]((5,12,48),(3,7,28),(6,14,57)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,20),(5,12,48),(6,14,57)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,19),(2,5,20),(5,12,48)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,19),(5,12,48),(3,7,28)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,20),(6,14,57),(2,5,21),(3,7,29)); lvl=3; h,r-ind=1,1
        [3,3]((5,12,49),(3,7,29),(6,14,57)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,20),(5,12,49),(6,14,57)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,49),(2,5,21),(3,7,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,20),(5,12,49),(2,5,21)); lvl=4; h,r-ind=1,1
      [3,3]((7,16,67),(3,7,29),(4,9,37)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,59),(7,16,67),(3,7,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,21),(6,14,59),(3,7,29)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,8),(2,5,17),(2,5,19),(4,9,36)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,8),(6,14,53),(2,5,18),(2,5,17)); lvl=3; h,r-ind=1,1
        [3,3]((6,14,53),(3,7,26),(2,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,17),(3,7,26),(2,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,8),(6,14,53),(3,7,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,17),(1,2,8),(3,7,26)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,19),(3,7,27),(6,14,53),(2,5,18)); lvl=3; h,r-ind=1,1
        [3,3]((5,12,45),(6,14,53),(3,7,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,19),(5,12,45),(3,7,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,18),(2,5,19),(5,12,45)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,18),(5,12,45),(6,14,53)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,36),(2,5,19),(3,7,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(3,7,27),(6,14,53)); lvl=3; h,r-ind=1,1
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      [3,3]((1,2,8),(4,9,36),(3,7,27)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,11),(1,3,9),(2,5,21),(2,5,17)); lvl=1; h,r-ind=2,1
    [4,3]((1,3,10),(1,3,9),(2,5,19),(2,5,17)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,9),(4,11,37),(2,5,17),(2,5,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,17),(3,8,27),(2,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,37),(3,8,27),(2,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(2,5,17),(3,8,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,37),(1,3,9),(3,8,27)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,10),(4,11,37),(2,5,19),(2,5,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,19),(3,8,28),(2,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,37),(3,8,28),(2,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,10),(2,5,19),(3,8,28)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,37),(1,3,10),(3,8,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,10),(1,3,9),(4,11,37)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,11),(1,3,10),(2,5,21),(2,5,19)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,10),(4,11,41),(2,5,19),(2,5,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,19),(3,8,30),(2,5,20)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,41),(3,8,30),(2,5,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,10),(4,11,41),(3,8,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,10),(2,5,19),(3,8,30)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,11),(4,11,41),(2,5,21),(2,5,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,31),(2,5,21),(2,5,20)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,41),(3,8,31),(2,5,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,11),(4,11,41),(3,8,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,11),(3,8,31),(2,5,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,11),(1,3,10),(4,11,41)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,22),(1,3,11),(2,5,21)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,22),(2,5,21),(3,7,30)); lvl=1; h,r-ind=1,1
  [5,3]((1,2,8),(1,1,4),(3,4,17),(6,13,56),(5,11,47)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,17),(2,4,17),(1,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,8),(2,4,17),(1,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,17),(2,4,17),(9,17,73)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,4,17),(9,17,73),(6,13,56)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((5,11,47),(2,4,17),(6,13,56)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,8),(5,11,47),(2,4,17)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,22),(1,0,0),(3,4,17),(6,13,56)); lvl=1; h,r-ind=3,3
    [3,3]((2,3,13),(1,0,0),(3,4,17)); lvl=2; h,r-ind=1,1
    [4,3]((9,17,73),(5,9,39),(2,3,13),(3,4,17)); lvl=2; h,r-ind=1,1
      [4,3]((5,9,39),(9,16,69),(2,3,13),(15,26,112)); lvl=3; h,r-ind=1,1
        [3,3]((11,19,82),(15,26,112),(9,16,69)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,39),(11,19,82),(9,16,69)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,13),(11,19,82),(15,26,112)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,39),(2,3,13),(11,19,82)); lvl=4; h,r-ind=1,1
      [4,3]((4,7,30),(3,4,17),(2,3,13),(15,26,112)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((6,10,43),(3,4,17),(2,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((15,26,112),(6,10,43),(2,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,30),(15,26,112),(6,10,43)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,30),(6,10,43),(3,4,17)); lvl=4; h,r-ind=1,1
      [4,3]((7,13,56),(4,7,30),(9,16,69),(15,26,112)); lvl=3; h,r-ind=1,1
        [3,3]((4,7,30),(15,26,112),(13,23,99)); lvl=4; h,r-ind=1,1
        [3,3]((9,16,69),(15,26,112),(13,23,99)); lvl=4; h,r-ind=1,1
        [3,3]((7,13,56),(9,16,69),(13,23,99)); lvl=4; h,r-ind=1,1
        [3,3]((7,13,56),(4,7,30),(13,23,99)); lvl=4; h,r-ind=1,1
      [3,3]((9,17,73),(7,13,56),(4,7,30)); lvl=3; h,r-ind=1,1
      [3,3]((7,13,56),(5,9,39),(9,16,69)); lvl=3; h,r-ind=1,1
    [4,3]((4,9,39),(6,13,56),(9,17,73),(5,9,39)); lvl=2; h,r-ind=3,1
      [4,3]((4,9,39),(3,6,26),(6,13,56),(5,10,43)); lvl=3; h,r-ind=1,1
        [3,3]((9,19,82),(5,10,43),(3,6,26)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,39),(9,19,82),(3,6,26)); lvl=4; h,r-ind=1,1
        [3,3]((6,13,56),(9,19,82),(5,10,43)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,39),(6,13,56),(9,19,82)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,26),(7,13,56),(5,10,43)); lvl=3; h,r-ind=1,1
      [3,3]((7,13,56),(9,17,73),(5,10,43)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,26),(5,9,39),(7,13,56)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,22),(4,9,39),(5,9,39)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((2,5,22),(5,9,39),(2,3,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,22),(2,3,13),(1,0,0)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,22),(6,13,56),(5,11,47),(3,7,30)); lvl=1; h,r-ind=1,1
    [4,3]((4,9,39),(12,27,116),(5,11,47),(6,13,56)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,11,47),(9,20,86),(12,27,116)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,39),(9,20,86),(12,27,116)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,56),(5,11,47),(9,20,86)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,39),(6,13,56),(9,20,86)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,30),(12,27,116),(5,11,47)); lvl=2; h,r-ind=1,1
    [4,3]((4,9,39),(2,5,22),(3,7,30),(12,27,116)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,7,30),(7,16,69),(2,5,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,39),(7,16,69),(2,5,22)); lvl=3; h,r-ind=1,1
      [3,3]((12,27,116),(3,7,30),(7,16,69)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,39),(12,27,116),(7,16,69)); lvl=3; h,r-ind=1,1
```

22.20 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,7,22)); lvl=0; h,r-ind=22,242
  [5,3]((0,1,0),(1,1,2),(2,7,11),(1,3,5),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(2,3,4),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,2),(1,1,1),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,3),(1,1,1),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
    [4,3]((3,10,15),(1,3,5),(1,2,3),(1,3,4)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,6,9),(1,3,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,15),(2,6,9),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,10,15),(2,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,11),(3,10,15),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,11),(3,10,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((0,1,0),(1,3,3),(3,10,15),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,12),(1,3,4),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(3,10,12),(1,3,3)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((3,11,15),(3,10,12),(3,10,15),(1,3,4)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,7,9),(3,10,12),(1,3,4),(6,20,27)); lvl=4; h,r-ind=1,3
          [3,3]((3,10,12),(3,10,13),(1,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((6,20,27),(3,10,13),(1,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,9),(6,20,27),(3,10,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,9),(3,10,12),(3,10,13)); lvl=5; h,r-ind=1,1
        [4,3]((2,7,10),(3,10,15),(1,3,4),(6,20,27)); lvl=4; h,r-ind=1,3
          [3,3]((1,3,4),(3,10,14),(3,10,15)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,10),(3,10,14),(3,10,15)); lvl=5; h,r-ind=1,1
          [3,3]((6,20,27),(1,3,4),(3,10,14)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,10),(6,20,27),(3,10,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,10),(2,7,9),(6,20,27)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,11,15),(2,7,10),(2,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(3,11,15),(3,10,12)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((1,2,2),(1,3,3),(2,3,4),(1,2,3),(1,3,4)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,9),(2,4,5),(4,9,11),(1,2,3)); lvl=3; h,r-ind=1,1
        [3,3]((2,4,5),(4,9,11),(5,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,9),(4,9,11),(5,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(3,7,9),(5,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,5),(5,11,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(3,7,9),(1,2,3)); lvl=3; h,r-ind=1,1
      [5,3]((1,3,3),(1,3,4),(3,7,8),(3,7,9),(4,9,11)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,6),(4,9,11),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,6),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,3,4),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(3,7,8),(4,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,5,6),(3,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(2,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(3,7,8),(2,4,5),(4,9,11)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,8),(4,9,11),(5,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(4,9,11),(5,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,7,8),(5,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(1,2,2),(5,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(3,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,1,2),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,22),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,8),(2,7,15),(0,1,0),(2,7,11)); lvl=1; h,r-ind=1,1
    [4,3]((2,8,13),(1,4,6),(2,7,13),(2,7,11)); lvl=2; h,r-ind=1,1
      [4,3]((4,15,25),(1,4,6),(2,7,11),(2,7,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,18),(1,4,6),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,18),(2,7,12),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,25),(3,11,18),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,25),(3,11,18),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((4,15,25),(2,7,13),(2,7,12)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
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      [3,3]((2,8,13),(4,15,25),(2,7,13)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,8,13),(4,15,25),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,6),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,8,13),(1,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,13),(2,7,15),(1,4,7),(2,7,13)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,7),(4,15,27),(2,7,15),(2,7,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,15),(3,11,21),(2,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,27),(3,11,21),(2,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(4,15,27),(3,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,7,15),(3,11,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,13),(4,15,27),(2,7,14)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,8,13),(1,4,7),(4,15,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,13),(2,8,13),(4,15,27)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,4,8),(2,7,15),(1,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,8,13),(1,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,8),(0,1,0),(1,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,11),(1,4,8),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((1,2,6),(1,1,2),(1,1,3),(1,3,5),(1,3,7)); lvl=1; h,r-ind=1,2
    [4,3]((1,2,5),(2,4,9),(1,3,7),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,6),(1,3,7),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,3,7),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,9),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(1,3,6),(2,5,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(2,4,9),(1,3,5),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,6),(1,3,5),(2,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(2,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(1,2,4),(2,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(1,3,6),(2,5,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,7),(1,2,4),(2,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,9),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,4,9),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,7),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,4),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(1,2,5),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,7),(1,1,3),(1,2,5),(2,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,12),(1,2,5),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(3,5,12),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(3,5,12),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,4,9),(3,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,7),(1,1,3)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,22),(1,2,6),(1,1,3)); lvl=1; h,r-ind=1,1
  [5,3]((2,7,15),(3,10,23),(2,7,11),(1,3,5),(1,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,7),(3,10,23),(3,10,22)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,15),(3,10,23),(3,10,22)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,7),(6,20,39),(1,3,6),(3,10,22)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,20),(1,3,6),(6,20,39)); lvl=3; h,r-ind=1,1
      [4,3]((6,19,40),(3,10,20),(6,20,41),(1,3,6)); lvl=3; h,r-ind=1,1
        [4,3]((4,13,27),(8,26,53),(3,10,20),(6,20,41)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((8,26,53),(3,10,20),(7,23,47)); lvl=5; h,r-ind=1,1
          [3,3]((6,20,41),(3,10,20),(7,23,47)); lvl=5; h,r-ind=1,1
          [3,3]((4,13,27),(8,26,53),(7,23,47)); lvl=5; h,r-ind=1,1
          [3,3]((6,20,41),(4,13,27),(7,23,47)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(4,13,27),(8,26,53)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(4,13,27),(6,19,40)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(8,26,53),(3,10,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(6,19,40),(1,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,7),(6,19,40),(3,10,22),(6,20,41)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,10,21),(4,13,27),(9,29,62)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,3,7),(3,10,22),(3,10,21),(9,29,62)); lvl=4; h,r-ind=1,3
          [3,3]((4,13,28),(3,10,21),(3,10,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(4,13,28),(3,10,22)); lvl=5; h,r-ind=1,1
          [3,3]((9,29,62),(4,13,28),(3,10,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(9,29,62),(4,13,28)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,7),(6,19,40),(4,13,27),(9,29,62)); lvl=4; h,r-ind=1,3
          [3,3]((5,16,34),(4,13,27),(6,19,40)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(5,16,34),(6,19,40)); lvl=5; h,r-ind=1,1
          [3,3]((9,29,62),(5,16,34),(4,13,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(9,29,62),(5,16,34)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,21),(4,13,27),(6,20,41)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,15),(2,7,13),(6,20,39),(3,10,22)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,13),(3,10,20),(6,20,39)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,14),(6,20,41),(2,7,13),(3,10,20)); lvl=3; h,r-ind=1,1
        [3,3]((5,17,34),(3,10,20),(6,20,41)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,14),(5,17,34),(6,20,41)); lvl=4; h,r-ind=1,1
        [3,3]((5,17,34),(2,7,13),(3,10,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,14),(5,17,34),(2,7,13)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,14),(2,7,15),(3,10,22),(6,20,41)); lvl=3; h,r-ind=1,1
        [4,3]((7,24,50),(3,10,21),(3,10,22),(2,7,15)); lvl=4; h,r-ind=1,2; alert-r-inc
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          [3,3]((3,10,21),(5,17,36),(3,10,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,15),(5,17,36),(3,10,22)); lvl=5; h,r-ind=1,1
          [3,3]((7,24,50),(3,10,21),(5,17,36)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,15),(7,24,50),(5,17,36)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,14),(7,24,50),(2,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,14),(7,24,50),(3,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,14),(6,20,41),(3,10,21)); lvl=4; h,r-ind=1,1
    [5,3]((2,7,13),(6,20,39),(2,7,11),(1,3,6),(1,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,16,29),(1,3,6),(1,3,5)); lvl=3; h,r-ind=1,1
      [5,3]((3,10,18),(5,16,29),(2,7,12),(2,7,11),(1,3,5)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,12),(2,7,11),(3,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,7,11),(3,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((7,23,40),(1,3,5),(3,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((7,23,40),(4,13,23),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,29),(4,13,23),(1,3,5)); lvl=4; h,r-ind=1,1
        [4,3]((6,20,35),(7,23,40),(2,7,12),(3,10,17)); lvl=4; h,r-ind=1,1
          [3,3]((9,30,52),(7,23,40),(3,10,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,12),(9,30,52),(3,10,17)); lvl=5; h,r-ind=1,1
          [3,3]((6,20,35),(2,7,12),(9,30,52)); lvl=5; h,r-ind=1,1
          [3,3]((6,20,35),(9,30,52),(7,23,40)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,18),(6,20,35),(2,7,12)); lvl=4; h,r-ind=1,1
        [4,3]((3,10,18),(6,20,35),(7,23,40),(4,13,23)); lvl=4; h,r-ind=1,1
          [3,3]((10,33,58),(7,23,40),(6,20,35)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,18),(10,33,58),(6,20,35)); lvl=5; h,r-ind=1,1
          [3,3]((4,13,23),(3,10,18),(10,33,58)); lvl=5; h,r-ind=1,1
          [3,3]((4,13,23),(10,33,58),(7,23,40)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,18),(5,16,29),(4,13,23)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,13),(3,10,18),(3,10,19),(2,7,12)); lvl=3; h,r-ind=1,1
        [3,3]((5,17,31),(3,10,18),(3,10,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,13),(5,17,31),(3,10,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,12),(5,17,31),(3,10,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,13),(2,7,12),(5,17,31)); lvl=4; h,r-ind=1,1
      [4,3]((3,10,18),(5,16,29),(3,10,19),(1,3,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,6),(5,16,29),(4,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,18),(5,16,29),(4,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,19),(1,3,6),(4,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,18),(3,10,19),(4,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((6,20,39),(3,10,19),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,13),(6,20,39),(3,10,19)); lvl=3; h,r-ind=1,1
[4,3]((3,10,30),(1,2,6),(3,10,23),(1,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,6),(1,3,8),(1,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((3,10,23),(1,3,8),(1,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((3,10,23),(6,20,53),(1,3,8)); lvl=2; h,r-ind=7,7; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,3,9),(1,2,6),(1,3,8)); lvl=2; h,r-ind=1,1
  [4,3]((3,10,30),(6,20,53),(1,3,9),(1,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((7,22,62),(1,3,8),(1,3,9)); lvl=3; h,r-ind=1,1
    [4,3]((3,10,30),(3,10,28),(7,22,62),(1,3,9)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,3,9),(5,16,46),(7,22,62),(5,16,45)); lvl=4; h,r-ind=1,2
        [3,3]((5,16,45),(5,16,46),(6,19,54)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,9),(5,16,46),(6,19,54)); lvl=5; h,r-ind=1,1
        [3,3]((7,22,62),(5,16,45),(6,19,54)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,9),(7,22,62),(6,19,54)); lvl=5; h,r-ind=1,1
      [3,3]((5,16,46),(3,10,28),(5,16,45)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((3,10,29),(5,16,46),(3,10,28)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,3,9),(3,10,30),(3,10,29),(5,16,46)); lvl=4; h,r-ind=1,2
        [3,3]((3,10,30),(3,10,29),(4,13,38)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,46),(3,10,29),(4,13,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,9),(3,10,30),(4,13,38)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,46),(1,3,9),(4,13,38)); lvl=5; h,r-ind=1,1
    [4,3]((3,10,28),(3,10,27),(7,22,62),(1,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,27),(4,13,36),(1,3,8)); lvl=4; h,r-ind=1,1
      [3,3]((10,32,89),(4,13,36),(1,3,8)); lvl=4; h,r-ind=1,1
      [4,3]((5,16,45),(7,22,62),(10,32,89),(1,3,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(6,19,53),(7,22,62)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,45),(6,19,53),(7,22,62)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,45),(10,32,89),(6,19,53)); lvl=5; h,r-ind=1,1
        [3,3]((10,32,89),(1,3,8),(6,19,53)); lvl=5; h,r-ind=1,1
      [4,3]((3,10,28),(5,16,45),(10,32,89),(4,13,36)); lvl=4; h,r-ind=1,1
        [3,3]((9,29,81),(5,16,45),(10,32,89)); lvl=5; h,r-ind=1,1
        [3,3]((9,29,81),(4,13,36),(10,32,89)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,28),(9,29,81),(4,13,36)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,28),(9,29,81),(5,16,45)); lvl=5; h,r-ind=1,1
      [3,3]((3,10,28),(3,10,27),(4,13,36)); lvl=4; h,r-ind=1,1
    [3,3]((6,20,53),(3,10,27),(1,3,8)); lvl=3; h,r-ind=1,1
[3,3]((2,7,22),(3,10,30),(2,7,21)); lvl=1; h,r-ind=1,1
[3,3]((2,7,22),(3,10,30),(1,2,6)); lvl=1; h,r-ind=4,4; optimized-h
[6,3]((1,4,11),(1,4,8),(3,10,30),(2,7,21),(2,7,15),(3,10,23)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,16),(2,7,15),(3,10,23)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,16),(2,7,18),(6,20,53),(3,10,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,18),(3,10,26),(6,20,53)); lvl=3; h,r-ind=1,1
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      [4,3]((2,7,17),(2,7,18),(3,10,25),(3,10,26)); lvl=3; h,r-ind=1,1
        [3,3]((5,17,43),(3,10,26),(3,10,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,17),(5,17,43),(3,10,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,18),(5,17,43),(3,10,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,17),(2,7,18),(5,17,43)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,16),(2,7,17),(3,10,23),(3,10,25)); lvl=3; h,r-ind=1,1
        [4,3]((7,24,57),(2,7,17),(3,10,24),(3,10,25)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,10,24),(5,17,41),(3,10,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,17),(5,17,41),(3,10,25)); lvl=5; h,r-ind=1,1
          [3,3]((7,24,57),(3,10,24),(5,17,41)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,17),(7,24,57),(5,17,41)); lvl=5; h,r-ind=1,1
        [4,3]((2,7,16),(7,24,57),(3,10,23),(3,10,24)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,17,40),(3,10,24),(3,10,23)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,16),(5,17,40),(3,10,23)); lvl=5; h,r-ind=1,1
          [3,3]((5,17,40),(7,24,57),(3,10,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,16),(5,17,40),(7,24,57)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,16),(7,24,57),(2,7,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,8),(2,8,19),(2,7,16),(2,7,18)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,9),(2,7,18),(2,7,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,8),(1,4,9),(2,7,16),(2,7,17)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,16),(2,7,17),(3,11,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(2,7,17),(3,11,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(2,7,16),(3,11,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(1,4,8),(3,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(2,8,19),(2,7,18)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,20),(2,7,18),(3,10,30),(6,20,53)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,18),(6,20,53),(3,10,27)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,18),(2,7,19),(3,10,28),(3,10,27)); lvl=3; h,r-ind=1,1
        [3,3]((5,17,46),(3,10,28),(2,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,18),(5,17,46),(2,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,27),(2,7,18),(5,17,46)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,27),(5,17,46),(3,10,28)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,20),(2,7,19),(3,10,30),(3,10,28)); lvl=3; h,r-ind=1,1
        [4,3]((7,24,68),(2,7,19),(3,10,29),(3,10,28)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,10,29),(3,10,28),(5,17,48)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,19),(3,10,28),(5,17,48)); lvl=5; h,r-ind=1,1
          [3,3]((7,24,68),(2,7,19),(5,17,48)); lvl=5; h,r-ind=1,1
          [3,3]((7,24,68),(3,10,29),(5,17,48)); lvl=5; h,r-ind=1,1
        [4,3]((2,7,20),(7,24,68),(3,10,30),(3,10,29)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,10,29),(5,17,49),(3,10,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,20),(5,17,49),(3,10,30)); lvl=5; h,r-ind=1,1
          [3,3]((7,24,68),(2,7,20),(5,17,49)); lvl=5; h,r-ind=1,1
          [3,3]((7,24,68),(3,10,29),(5,17,49)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,20),(7,24,68),(2,7,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,20),(2,7,21),(3,10,30)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,11),(2,7,20),(2,7,21)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,11),(2,8,19),(2,7,20),(2,7,18)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,10),(2,7,19),(2,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,10),(2,8,19),(2,7,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,10),(1,4,11),(2,7,20),(2,7,19)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,11),(2,7,20),(3,11,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,19),(2,7,20),(3,11,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(1,4,11),(3,11,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,19),(1,4,10),(3,11,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(2,7,16),(2,7,15)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,22),(1,4,11),(2,7,21)); lvl=1; h,r-ind=1,1
```

22.21 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,9,22)); lvl=0; h,r-ind=22,242
  [7,3]((6,25,60),(2,7,14),(1,4,9),(5,21,50),(2,5,12),(1,2,4),(4,8,19)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,15),(2,7,14),(1,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((3,10,23),(2,7,15),(3,11,25),(1,3,6)); lvl=2; h,r-ind=1,1
      [4,3]((2,7,16),(3,11,25),(5,17,37),(2,7,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,14,31),(2,7,15),(3,11,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,16),(4,14,31),(3,11,25)); lvl=4; h,r-ind=1,1
        [3,3]((5,17,37),(4,14,31),(2,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,16),(5,17,37),(4,14,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(5,17,37),(2,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,16),(5,17,37)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,23),(1,3,6),(2,7,16)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,7),(1,2,4),(3,10,23),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,6,13),(1,3,6),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,6,13),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(3,10,23),(2,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,23),(2,6,13),(1,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((5,18,42),(3,11,26),(1,3,7),(3,10,23)); lvl=2; h,r-ind=1,1
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      [3,3]((3,11,26),(1,3,7),(6,21,49)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,23),(1,3,7),(6,21,49)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,42),(3,11,26),(6,21,49)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,23),(5,18,42),(6,21,49)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(1,2,4),(5,10,23)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,7),(4,8,19),(5,10,23)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,7),(2,5,12),(4,8,19)); lvl=2; h,r-ind=1,1
    [4,3]((4,15,36),(3,11,26),(1,3,7),(2,5,12)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,26),(1,3,7),(6,21,50)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,12),(3,10,24),(1,3,7),(6,21,50)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,24),(6,21,50),(4,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(6,21,50),(4,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(3,10,24),(4,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(2,5,12),(4,13,31)); lvl=4; h,r-ind=1,1
      [3,3]((4,15,36),(3,10,24),(6,21,50)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((4,15,36),(3,11,26),(6,21,50)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((5,18,42),(4,15,35),(3,10,23),(3,11,25)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,16),(4,15,35),(3,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,16),(11,40,93),(4,15,35)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,42),(11,40,93),(4,15,35)); lvl=3; h,r-ind=1,1
      [4,3]((5,18,42),(3,10,23),(2,7,16),(11,40,93)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,16),(3,10,23),(7,25,58)); lvl=4; h,r-ind=1,1
        [3,3]((5,18,42),(3,10,23),(7,25,58)); lvl=4; h,r-ind=1,1
        [3,3]((11,40,93),(2,7,16),(7,25,58)); lvl=4; h,r-ind=1,1
        [3,3]((5,18,42),(11,40,93),(7,25,58)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,9),(2,7,15),(3,11,25),(2,7,14)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,24),(2,7,15),(3,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(3,11,24),(3,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,14),(1,4,9),(3,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,14),(3,11,24),(2,7,15)); lvl=3; h,r-ind=1,1
    [4,3]((2,8,19),(1,4,9),(4,15,35),(3,11,25)); lvl=2; h,r-ind=1,1
      [3,3]((5,19,44),(3,11,25),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,19),(5,19,44),(1,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,35),(5,19,44),(3,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,19),(4,15,35),(5,19,44)); lvl=3; h,r-ind=1,1
    [4,3]((5,18,42),(3,11,26),(2,8,19),(4,15,35)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,26),(2,8,19),(7,26,61)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,35),(2,8,19),(7,26,61)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,42),(3,11,26),(7,26,61)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,35),(5,18,42),(7,26,61)); lvl=3; h,r-ind=1,1
    [4,3]((6,25,60),(4,15,36),(3,11,26),(2,8,19)); lvl=2; h,r-ind=1,1
      [3,3]((8,31,74),(3,11,26),(4,15,36)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((8,31,74),(5,20,48),(4,15,36)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((8,31,74),(2,8,19),(3,11,26)); lvl=3; h,r-ind=1,1
      [4,3]((6,25,60),(8,31,74),(5,20,48),(2,8,19)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,28,67),(5,20,48),(8,31,74)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,19),(7,28,67),(8,31,74)); lvl=4; h,r-ind=1,1
        [3,3]((6,25,60),(7,28,67),(5,20,48)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,19),(6,25,60),(7,28,67)); lvl=4; h,r-ind=1,1
    [3,3]((5,21,50),(2,8,19),(1,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((6,25,60),(5,21,50),(2,8,19)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,4),(4,8,19)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((1,0,0),(2,5,12),(4,8,19)); lvl=1; h,r-ind=1,1
  [3,3]((2,9,22),(1,0,0),(2,5,12)); lvl=1; h,r-ind=2,2; optimized-h
  [6,3]((2,9,11),(2,7,14),(1,4,7),(2,9,13),(1,2,3),(1,2,4)); lvl=1; h,r-ind=1,1
    [6,3]((3,11,18),(4,14,23),(3,10,17),(3,11,19),(1,3,6),(2,7,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,12),(3,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,23),(2,7,12),(3,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,18),(4,14,23),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,12),(2,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,12),(3,11,19),(2,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,18),(2,7,12),(3,11,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,14),(1,3,6),(2,7,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,7),(2,7,14),(3,11,19),(2,7,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,14),(3,11,20),(2,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,19),(3,11,20),(2,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(2,7,14),(3,11,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,19),(1,4,7),(3,11,20)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,7),(3,11,18),(1,4,6),(3,11,19)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,6),(3,11,18),(4,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,19),(3,11,18),(4,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(1,4,6),(4,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,19),(1,4,7),(4,15,25)); lvl=3; h,r-ind=1,1
    [4,3]((3,11,18),(2,7,11),(4,14,23),(1,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,14,23),(2,7,11),(5,18,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,11),(5,18,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,18),(1,4,6),(5,18,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,18),(4,14,23),(5,18,29)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(2,7,11),(2,7,9),(1,4,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,6),(4,15,21),(2,7,10),(2,7,11)); lvl=3; h,r-ind=1,2; alert-r-inc
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        [3,3]((3,11,16),(4,15,21),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,11),(3,11,16),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(2,7,11),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(3,11,16),(4,15,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,6),(4,15,21)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,5),(4,15,21),(2,7,9),(2,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,15),(2,7,10),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(3,11,15),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,15),(4,15,21),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(3,11,15),(4,15,21)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,13),(1,4,7),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,12),(2,9,13),(1,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,11),(1,4,5),(2,9,12),(1,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,13,17),(1,4,6),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,11),(3,13,17),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,12),(3,13,17),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,11),(2,9,12),(3,13,17)); lvl=3; h,r-ind=1,1
    [4,3]((3,10,17),(1,3,5),(1,2,4),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,4),(2,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,2,4),(2,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,17),(1,3,5),(2,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(3,10,17),(2,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,11),(2,7,9),(1,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,10),(1,3,4),(2,7,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,10),(3,10,15),(5,16,24),(1,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((3,10,15),(5,16,24),(4,13,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(5,16,24),(4,13,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(3,10,15),(4,13,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,10),(4,13,19)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,5),(5,16,24),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((5,16,24),(1,3,4),(2,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(2,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(1,2,3),(2,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(5,16,24),(2,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,10),(2,7,11),(3,10,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,5),(2,7,11),(3,10,15),(5,16,24)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,11),(4,13,20),(3,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,24),(4,13,20),(3,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,7,11),(4,13,20)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,24),(1,3,5),(4,13,20)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,11),(4,14,23),(3,10,17),(1,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,17),(4,14,23),(5,17,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(4,14,23),(5,17,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,11),(5,17,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(3,10,17),(5,17,28)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(2,9,11),(1,0,0),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,3),(1,4,5),(2,7,9)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,3),(3,11,12),(2,7,9),(3,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,8),(3,11,13),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(3,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,9),(1,3,3),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,9),(2,7,8),(3,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,9),(3,11,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,5),(1,4,4),(3,11,12),(3,11,13)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,4),(3,11,12),(4,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,13),(3,11,12),(4,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(1,4,4),(4,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,13),(1,4,5),(4,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,5),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,4,4),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(1,3,3),(1,2,3),(2,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,4),(1,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(1,2,2),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,4),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,1,1),(2,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,3,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(1,1,1),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,9,11),(1,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,14),(1,4,7),(1,4,9)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(2,9,11),(2,9,13),(1,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,9,13),(1,5,6),(2,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,11),(1,5,6),(2,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,9,11),(1,5,6)); lvl=2; h,r-ind=1,1
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  [3,3]((1,5,7),(2,9,13),(1,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,7),(1,5,6)); lvl=2; h,r-ind=1,1
[3,3]((2,9,22),(6,25,60),(2,5,12)); lvl=1; h,r-ind=8,4; optimized-h
[4,3]((2,9,22),(6,25,60),(3,13,31),(5,21,50)); lvl=1; h,r-ind=1,1
  [4,3]((4,17,41),(6,25,60),(5,21,50),(12,51,122)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((9,38,91),(5,21,50),(6,25,60)); lvl=3; h,r-ind=1,1
    [3,3]((4,17,41),(9,38,91),(6,25,60)); lvl=3; h,r-ind=1,1
    [3,3]((12,51,122),(9,38,91),(5,21,50)); lvl=3; h,r-ind=1,1
    [3,3]((4,17,41),(12,51,122),(9,38,91)); lvl=3; h,r-ind=1,1
  [3,3]((3,13,31),(5,21,50),(12,51,122)); lvl=2; h,r-ind=1,1
  [4,3]((3,13,31),(2,9,22),(4,17,41),(12,51,122)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((7,30,72),(4,17,41),(2,9,22)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,31),(7,30,72),(2,9,22)); lvl=3; h,r-ind=1,1
    [3,3]((7,30,72),(12,51,122),(4,17,41)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,31),(7,30,72),(12,51,122)); lvl=3; h,r-ind=1,1
[7,3]((1,5,11),(1,4,7),(2,9,13),(1,5,7),(1,4,9),(3,13,31),(5,21,50)); lvl=1; h,r-ind=1,1
  [4,3]((2,9,17),(2,9,14),(1,5,7),(1,5,9)); lvl=2; h,r-ind=1,1
    [4,3]((4,18,31),(1,5,8),(2,9,14),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,30),(1,5,8),(1,5,7)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,14),(2,9,15),(4,19,30),(1,5,7)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,15),(4,19,30),(3,14,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(4,19,30),(3,14,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,14),(2,9,15),(3,14,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(2,9,14),(3,14,22)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,15),(4,19,30),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,31),(2,9,15),(1,5,8)); lvl=4; h,r-ind=1,1
    [4,3]((2,9,17),(4,18,31),(1,5,9),(1,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,9),(4,19,33),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(4,19,33),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(4,18,31),(1,5,8)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,17),(2,9,16),(1,5,9),(4,19,33)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,16),(4,19,33),(3,14,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(4,19,33),(3,14,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,17),(1,5,9),(3,14,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,17),(2,9,16),(3,14,25)); lvl=5; h,r-ind=1,1
  [7,3]((4,17,34),(2,9,17),(1,5,11),(4,17,38),(3,13,30),(2,9,21),(1,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,9),(2,9,17),(4,18,35)); lvl=3; h,r-ind=1,1
    [4,3]((3,13,26),(5,22,44),(2,9,17),(4,18,35)); lvl=3; h,r-ind=1,1
      [3,3]((4,18,35),(2,9,17),(7,31,61)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,26),(2,9,17),(7,31,61)); lvl=4; h,r-ind=1,1
      [3,3]((5,22,44),(3,13,26),(7,31,61)); lvl=4; h,r-ind=1,1
      [3,3]((5,22,44),(4,18,35),(7,31,61)); lvl=4; h,r-ind=1,1
    [3,3]((4,17,34),(3,13,26),(2,9,17)); lvl=3; h,r-ind=1,1
    [6,3]((5,22,44),(10,44,93),(2,9,19),(1,5,9),(1,5,10),(4,18,35)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,19),(10,44,93),(5,22,46),(4,18,37)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,31,65),(5,22,46),(10,44,93)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,19),(7,31,65),(10,44,93)); lvl=5; h,r-ind=1,1
        [3,3]((4,18,37),(7,31,65),(5,22,46)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,19),(4,18,37),(7,31,65)); lvl=5; h,r-ind=1,1
      [4,3]((10,44,91),(2,9,18),(5,22,46),(4,18,37)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,31,64),(2,9,18),(4,18,37)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,46),(7,31,64),(4,18,37)); lvl=5; h,r-ind=1,1
        [3,3]((10,44,91),(7,31,64),(2,9,18)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,46),(10,44,91),(7,31,64)); lvl=5; h,r-ind=1,1
      [3,3]((5,22,44),(10,44,91),(2,9,18)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((5,22,44),(2,9,18),(4,18,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(2,9,19),(4,18,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,18),(1,5,10),(4,18,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,18),(1,5,9),(1,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,18),(4,18,35),(1,5,9)); lvl=4; h,r-ind=1,1
    [4,3]((3,13,26),(5,22,44),(6,26,55),(10,44,93)); lvl=3; h,r-ind=1,1
      [4,3]((3,13,27),(3,13,26),(5,22,44),(10,44,91)); lvl=4; h,r-ind=1,1
        [4,3]((5,22,45),(11,48,98),(3,13,26),(5,22,44)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((8,35,71),(11,48,98),(3,13,26)); lvl=6; h,r-ind=1,1
          [3,3]((5,22,44),(8,35,71),(3,13,26)); lvl=6; h,r-ind=1,1
          [3,3]((5,22,45),(5,22,44),(8,35,71)); lvl=6; h,r-ind=1,1
          [3,3]((5,22,45),(8,35,71),(11,48,98)); lvl=6; h,r-ind=1,1
        [3,3]((3,13,27),(5,22,45),(11,48,98)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,27),(5,22,45),(10,44,91)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,27),(11,48,98),(3,13,26)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,27),(5,22,46),(10,44,91)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,27),(8,35,74),(5,22,46)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,27),(8,35,74),(6,26,55)); lvl=4; h,r-ind=1,1
      [3,3]((8,35,74),(10,44,93),(5,22,46)); lvl=4; h,r-ind=1,1
    [4,3]((4,17,34),(3,13,26),(4,17,36),(6,26,55)); lvl=3; h,r-ind=1,1
      [3,3]((4,17,36),(6,26,55),(3,13,27)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,35),(4,17,36),(3,13,27)); lvl=4; h,r-ind=1,1
      [4,3]((4,17,34),(4,17,35),(3,13,26),(3,13,27)); lvl=4; h,r-ind=1,1
        [3,3]((7,30,61),(3,13,27),(3,13,26)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,34),(7,30,61),(3,13,26)); lvl=5; h,r-ind=1,1
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      [3,3]((4,17,35),(7,30,61),(3,13,27)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,34),(4,17,35),(7,30,61)); lvl=5; h,r-ind=1,1
  [4,3]((2,9,19),(2,9,20),(1,5,10),(1,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,30),(1,5,11),(1,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,19),(3,14,30),(1,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,20),(3,14,30),(1,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,19),(2,9,20),(3,14,30)); lvl=4; h,r-ind=1,1
  [3,3]((2,9,20),(2,9,21),(1,5,11)); lvl=3; h,r-ind=1,1
  [4,3]((5,22,49),(5,22,50),(2,9,20),(2,9,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,20),(2,9,21),(7,31,70)); lvl=4; h,r-ind=1,1
    [3,3]((5,22,50),(2,9,21),(7,31,70)); lvl=4; h,r-ind=1,1
    [3,3]((5,22,49),(2,9,20),(7,31,70)); lvl=4; h,r-ind=1,1
    [3,3]((5,22,50),(5,22,49),(7,31,70)); lvl=4; h,r-ind=1,1
  [3,3]((5,22,50),(3,13,30),(2,9,21)); lvl=3; h,r-ind=1,1
  [4,3]((5,22,49),(10,44,93),(2,9,19),(2,9,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,19),(5,22,47),(10,44,93)); lvl=4; h,r-ind=1,1
    [4,3]((10,44,95),(11,49,106),(2,9,19),(5,22,47)); lvl=4; h,r-ind=1,1
      [3,3]((7,31,67),(2,9,19),(11,49,106)); lvl=5; h,r-ind=1,1
      [3,3]((7,31,67),(14,62,133),(2,9,19)); lvl=5; h,r-ind=1,1
      [3,3]((14,62,133),(5,22,47),(2,9,19)); lvl=5; h,r-ind=1,1
      [4,3]((7,31,67),(10,44,95),(14,62,133),(5,22,47)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((12,53,114),(10,44,95),(5,22,47)); lvl=6; h,r-ind=1,1
        [3,3]((14,62,133),(12,53,114),(5,22,47)); lvl=6; h,r-ind=1,1
        [3,3]((7,31,67),(14,62,133),(12,53,114)); lvl=6; h,r-ind=1,1
        [3,3]((7,31,67),(12,53,114),(10,44,95)); lvl=6; h,r-ind=1,1
    [4,3]((5,22,49),(10,44,95),(2,9,20),(11,49,106)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((5,22,48),(7,31,67),(10,44,95)); lvl=5; h,r-ind=1,1
      [3,3]((5,22,48),(16,71,155),(7,31,67)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((2,9,20),(16,71,155),(11,49,106),(7,31,67)); lvl=5; h,r-ind=1,3
        [3,3]((16,71,155),(9,40,87),(7,31,67)); lvl=6; h,r-ind=1,1
        [3,3]((11,49,106),(9,40,87),(7,31,67)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,20),(11,49,106),(9,40,87)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,20),(16,71,155),(9,40,87)); lvl=6; h,r-ind=1,1
      [4,3]((2,9,20),(5,22,49),(5,22,48),(16,71,155)); lvl=5; h,r-ind=1,3
        [3,3]((5,22,49),(7,31,68),(5,22,48)); lvl=6; h,r-ind=1,1
        [3,3]((16,71,155),(7,31,68),(5,22,48)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,20),(16,71,155),(7,31,68)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,20),(5,22,49),(7,31,68)); lvl=6; h,r-ind=1,1
    [3,3]((2,9,20),(11,49,106),(2,9,19)); lvl=4; h,r-ind=1,1
  [4,3]((5,22,49),(6,26,55),(3,13,29),(10,44,93)); lvl=3; h,r-ind=1,1
    [3,3]((8,35,74),(3,13,28),(6,26,55)); lvl=4; h,r-ind=1,1
    [3,3]((8,35,74),(5,22,47),(3,13,28)); lvl=4; h,r-ind=1,1
    [3,3]((5,22,47),(10,44,95),(3,13,28)); lvl=4; h,r-ind=1,1
    [4,3]((5,22,49),(10,44,95),(3,13,29),(3,13,28)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,29),(3,13,28),(11,48,105)); lvl=5; h,r-ind=1,1
      [3,3]((5,22,48),(3,13,28),(11,48,105)); lvl=5; h,r-ind=1,1
      [3,3]((5,22,48),(10,44,95),(3,13,28)); lvl=5; h,r-ind=1,1
      [4,3]((5,22,49),(5,22,48),(3,13,29),(11,48,105)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,22,48),(11,48,105),(8,35,77)); lvl=6; h,r-ind=1,1
        [3,3]((3,13,29),(11,48,105),(8,35,77)); lvl=6; h,r-ind=1,1
        [3,3]((5,22,49),(5,22,48),(8,35,77)); lvl=6; h,r-ind=1,1
        [3,3]((3,13,29),(5,22,49),(8,35,77)); lvl=6; h,r-ind=1,1
    [3,3]((8,35,74),(10,44,93),(5,22,47)); lvl=4; h,r-ind=1,1
  [4,3]((4,17,38),(4,17,36),(6,26,55),(3,13,29)); lvl=3; h,r-ind=1,1
    [3,3]((4,17,36),(3,13,28),(6,26,55)); lvl=4; h,r-ind=1,1
    [3,3]((4,17,36),(4,17,37),(3,13,28)); lvl=4; h,r-ind=1,1
    [4,3]((4,17,38),(3,13,29),(4,17,37),(3,13,28)); lvl=4; h,r-ind=1,1
      [3,3]((7,30,66),(3,13,28),(3,13,29)); lvl=5; h,r-ind=1,1
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      [3,3]((4,17,37),(7,30,66),(3,13,28)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,38),(4,17,37),(7,30,66)); lvl=5; h,r-ind=1,1
  [4,3]((5,22,49),(5,22,50),(3,13,29),(3,13,30)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,29),(3,13,30),(8,35,79)); lvl=4; h,r-ind=1,1
    [3,3]((5,22,50),(3,13,30),(8,35,79)); lvl=4; h,r-ind=1,1
    [3,3]((5,22,49),(3,13,29),(8,35,79)); lvl=4; h,r-ind=1,1
    [3,3]((5,22,50),(5,22,49),(8,35,79)); lvl=4; h,r-ind=1,1
  [3,3]((4,17,38),(3,13,29),(3,13,30)); lvl=3; h,r-ind=1,1
[4,3]((1,4,8),(4,17,34),(1,4,9),(4,17,38)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,9),(8,33,70),(4,17,38),(4,17,36)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
    [3,3]((6,25,54),(4,17,36),(4,17,37)); lvl=4; h,r-ind=2,2; optimized-h
    [4,3]((1,4,9),(6,25,54),(4,17,38),(4,17,37)); lvl=4; h,r-ind=1,2
      [3,3]((4,17,38),(5,21,46),(4,17,37)); lvl=5; h,r-ind=1,1
      [3,3]((6,25,54),(5,21,46),(4,17,37)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,9),(6,25,54),(5,21,46)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,9),(4,17,38),(5,21,46)); lvl=5; h,r-ind=1,1
    [3,3]((6,25,53),(6,25,54),(4,17,36)); lvl=4; h,r-ind=2,2; optimized-h
    [4,3]((1,4,9),(8,33,70),(6,25,53),(6,25,54)); lvl=4; h,r-ind=1,2
      [3,3]((6,25,53),(7,29,62),(8,33,70)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,9),(7,29,62),(8,33,70)); lvl=5; h,r-ind=1,1
      [3,3]((6,25,54),(6,25,53),(7,29,62)); lvl=5; h,r-ind=1,1
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        [3,3]((1,4,9),(6,25,54),(7,29,62)); lvl=5; h,r-ind=1,1
    [4,3]((1,4,8),(8,33,70),(4,17,34),(4,17,36)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [3,3]((6,25,52),(4,17,36),(6,25,53)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((8,33,70),(1,4,8),(6,25,52),(6,25,53)); lvl=4; h,r-ind=1,2
        [3,3]((7,29,61),(6,25,52),(1,4,8)); lvl=5; h,r-ind=1,1
        [3,3]((8,33,70),(7,29,61),(1,4,8)); lvl=5; h,r-ind=1,1
        [3,3]((7,29,61),(6,25,53),(6,25,52)); lvl=5; h,r-ind=1,1
        [3,3]((8,33,70),(7,29,61),(6,25,53)); lvl=5; h,r-ind=1,1
      [3,3]((6,25,52),(4,17,35),(4,17,36)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,4,8),(6,25,52),(4,17,34),(4,17,35)); lvl=4; h,r-ind=1,2
        [3,3]((5,21,43),(4,17,34),(4,17,35)); lvl=5; h,r-ind=1,1
        [3,3]((6,25,52),(5,21,43),(4,17,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(6,25,52),(5,21,43)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(5,21,43),(4,17,34)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,8),(1,4,9),(8,33,70)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,9),(4,17,38),(4,17,40),(3,13,30)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((4,17,39),(4,17,38),(3,13,30)); lvl=3; h,r-ind=1,1
    [3,3]((4,17,40),(4,17,39),(3,13,30)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(4,17,40),(4,17,39)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(4,17,39),(4,17,38)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,9),(4,17,40),(5,21,50)); lvl=2; h,r-ind=1,1
  [4,3]((4,17,40),(3,13,30),(3,13,31),(2,9,21)); lvl=2; h,r-ind=1,1
    [3,3]((6,26,61),(2,9,21),(3,13,30)); lvl=3; h,r-ind=1,1
    [3,3]((4,17,40),(6,26,61),(3,13,30)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,31),(6,26,61),(2,9,21)); lvl=3; h,r-ind=1,1
    [3,3]((4,17,40),(3,13,31),(6,26,61)); lvl=3; h,r-ind=1,1
  [3,3]((4,17,40),(5,21,50),(3,13,31)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,14),(2,9,13),(1,5,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,7),(2,9,14),(2,9,13)); lvl=2; h,r-ind=1,1
  [5,3]((1,4,8),(1,4,7),(4,17,34),(2,9,17),(2,9,14)); lvl=2; h,r-ind=1,1
    [5,3]((2,9,14),(4,18,31),(6,25,46),(6,26,47),(1,4,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,15),(5,22,39),(4,18,31),(3,13,23)); lvl=4; h,r-ind=1,1
        [3,3]((7,31,54),(5,22,39),(4,18,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,15),(7,31,54),(4,18,31)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,23),(2,9,15),(7,31,54)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,23),(7,31,54),(5,22,39)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,15),(4,17,30),(3,13,23)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,15),(2,9,14),(4,17,30),(1,4,7)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,14),(3,13,22),(1,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,30),(3,13,22),(1,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,15),(4,17,30),(3,13,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,15),(2,9,14),(3,13,22)); lvl=5; h,r-ind=1,1
      [4,3]((4,17,31),(6,26,47),(5,22,39),(3,13,23)); lvl=4; h,r-ind=1,1
        [3,3]((9,39,70),(5,22,39),(6,26,47)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,31),(9,39,70),(6,26,47)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,23),(4,17,31),(9,39,70)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,23),(9,39,70),(5,22,39)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,30),(4,17,31),(3,13,23)); lvl=4; h,r-ind=1,1
      [4,3]((4,17,30),(1,4,7),(4,17,31),(6,25,46)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,21,38),(6,25,46),(1,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,30),(5,21,38),(1,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((5,21,38),(4,17,31),(6,25,46)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,30),(5,21,38),(4,17,31)); lvl=5; h,r-ind=1,1
    [4,3]((2,9,17),(3,13,25),(4,18,31),(6,26,47)); lvl=3; h,r-ind=3,1; alert-h-inc
      [4,3]((2,9,16),(2,9,17),(3,13,24),(3,13,25)); lvl=4; h,r-ind=1,1
        [3,3]((5,22,41),(3,13,25),(3,13,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,16),(5,22,41),(3,13,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,17),(5,22,41),(3,13,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,16),(2,9,17),(5,22,41)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,16),(5,22,39),(3,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((5,22,39),(6,26,47),(3,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(5,22,39),(4,18,31)); lvl=4; h,r-ind=1,1
    [3,3]((4,17,34),(2,9,17),(3,13,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(6,25,46),(1,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,8),(3,13,25),(6,25,46),(6,26,47)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,13,24),(4,17,31),(9,38,71)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,4,8),(3,13,25),(3,13,24),(9,38,71)); lvl=4; h,r-ind=1,3
        [3,3]((3,13,25),(4,17,32),(3,13,24)); lvl=5; h,r-ind=1,1
        [3,3]((9,38,71),(4,17,32),(3,13,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(9,38,71),(4,17,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(3,13,25),(4,17,32)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,8),(6,25,46),(4,17,31),(9,38,71)); lvl=4; h,r-ind=1,3
        [3,3]((4,17,31),(5,21,39),(6,25,46)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(5,21,39),(6,25,46)); lvl=5; h,r-ind=1,1
        [3,3]((9,38,71),(4,17,31),(5,21,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(9,38,71),(5,21,39)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,24),(4,17,31),(6,26,47)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(4,17,34),(3,13,25)); lvl=3; h,r-ind=1,1
[3,3]((2,9,22),(1,5,11),(3,13,31)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((0,1,0),(1,5,11),(1,5,7)); lvl=1; h,r-ind=4,4; optimized-h
```

22.22 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,11,22)); lvl=0; h,r-ind=22,22
  [5,3]((1,5,10),(1,6,11),(1,6,6),(1,5,6),(2,11,11)); lvl=1; h,r-ind=1,1
    [3,3]((1,6,6),(2,11,11),(2,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(2,11,11),(2,11,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,8),(2,11,16),(1,5,6),(2,11,12)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((1,5,7),(1,5,6),(2,11,14),(2,11,12)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,6),(4,21,26),(2,11,13),(2,11,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,21,26),(3,16,19),(2,11,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,12),(3,16,19),(2,11,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(2,11,12),(3,16,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(4,21,26),(3,16,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(1,5,6),(4,21,26)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,7),(4,21,26),(2,11,14),(2,11,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,13),(2,11,14),(3,16,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(2,11,14),(3,16,20)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,26),(2,11,13),(3,16,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(4,21,26),(3,16,20)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,8),(1,5,7),(2,11,16),(2,11,14)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,7),(4,21,30),(2,11,15),(2,11,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,15),(4,21,30),(3,16,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(4,21,30),(3,16,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,14),(2,11,15),(3,16,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(2,11,14),(3,16,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(1,5,7),(4,21,30)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,8),(4,21,30),(2,11,16),(2,11,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,15),(2,11,16),(3,16,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,8),(2,11,16),(3,16,23)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,30),(2,11,15),(3,16,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,8),(4,21,30),(3,16,23)); lvl=5; h,r-ind=1,1
    [4,3]((2,12,17),(2,11,16),(1,6,6),(2,11,12)); lvl=2; h,r-ind=1,1
      [4,3]((2,12,15),(1,6,6),(2,11,12),(2,11,14)); lvl=3; h,r-ind=1,1
        [4,3]((1,6,7),(1,6,6),(2,11,12),(2,11,13)); lvl=4; h,r-ind=1,1
          [3,3]((1,6,6),(2,11,12),(3,17,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,13),(2,11,12),(3,17,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(1,6,6),(3,17,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,13),(1,6,7),(3,17,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(2,11,14),(2,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,15),(1,6,7),(2,11,14)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,8),(2,12,15),(2,11,16),(2,11,14)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,14),(4,23,30),(2,11,15)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [4,3]((1,6,8),(2,11,16),(4,23,30),(2,11,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,16),(3,17,23),(2,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,23,30),(3,17,23),(2,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,8),(2,11,16),(3,17,23)); lvl=5; h,r-ind=1,1
          [3,3]((4,23,30),(1,6,8),(3,17,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,15),(1,6,8),(4,23,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,15),(2,11,14),(4,23,30)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,12,17),(1,6,8),(2,11,16)); lvl=3; h,r-ind=1,1
    [5,3]((1,5,10),(1,5,8),(1,6,11),(2,12,17),(2,11,16)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,9),(2,12,17),(4,22,33),(2,11,16)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,25),(2,11,16),(4,22,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,9),(3,17,25),(4,22,33)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,25),(2,12,17),(2,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,9),(3,17,25),(2,12,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(4,22,33),(2,11,16)); lvl=3; h,r-ind=1,1
      [5,3]((1,5,9),(1,5,8),(1,6,9),(2,12,19),(4,22,33)); lvl=3; h,r-ind=1,2; alert-r-inc
        [4,3]((2,11,17),(1,5,8),(3,16,26),(4,22,35)); lvl=4; h,r-ind=1,1
          [3,3]((5,27,43),(3,16,26),(1,5,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,17),(5,27,43),(1,5,8)); lvl=5; h,r-ind=1,1
          [3,3]((4,22,35),(5,27,43),(3,16,26)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,17),(4,22,35),(5,27,43)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,9),(3,17,27),(3,16,26),(4,22,35)); lvl=4; h,r-ind=1,1
          [4,3]((2,11,18),(9,49,79),(3,17,27),(4,22,35)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((6,33,53),(9,49,79),(4,22,35)); lvl=6; h,r-ind=1,1
            [3,3]((3,17,27),(6,33,53),(4,22,35)); lvl=6; h,r-ind=1,1
            [3,3]((2,11,18),(3,17,27),(6,33,53)); lvl=6; h,r-ind=1,1
            [3,3]((2,11,18),(6,33,53),(9,49,79)); lvl=6; h,r-ind=1,1
          [3,3]((3,16,26),(9,49,79),(4,22,35)); lvl=5; h,r-ind=1,1
          [4,3]((1,5,9),(2,11,18),(3,16,26),(9,49,79)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((5,27,44),(9,49,79),(2,11,18)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,9),(5,27,44),(2,11,18)); lvl=6; h,r-ind=1,1
            [3,3]((5,27,44),(3,16,26),(9,49,79)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,9),(5,27,44),(3,16,26)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,9),(2,12,19),(3,17,27)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
        [4,3]((1,6,9),(3,17,27),(2,11,17),(4,22,35)); lvl=4; h,r-ind=1,1
          [3,3]((2,11,17),(4,22,35),(5,28,44)); lvl=5; h,r-ind=1,1
          [3,3]((3,17,27),(4,22,35),(5,28,44)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,9),(3,17,27),(5,28,44)); lvl=5; h,r-ind=1,1
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          [3,3]((1,6,9),(2,11,17),(5,28,44)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,19),(1,6,9),(3,17,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,22,33),(2,11,17),(1,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,9),(4,22,33),(2,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(1,5,8),(3,16,26)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,10),(1,5,9),(1,6,11),(2,12,19)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,9),(1,6,10),(2,12,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,29),(1,5,9),(1,6,10)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,10),(3,16,29),(1,6,11),(1,6,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,10),(1,6,11),(2,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(1,6,11),(2,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,29),(1,6,10),(2,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(3,16,29),(2,11,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(3,16,29),(1,5,9)); lvl=4; h,r-ind=1,1
[4,3]((1,0,0),(1,3,6),(1,5,6),(2,11,11)); lvl=1; h,r-ind=1,1
  [4,3]((2,9,11),(2,8,11),(1,5,6),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(2,8,11),(3,13,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,11),(2,8,11),(3,13,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,11),(3,13,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,6),(3,13,17)); lvl=3; h,r-ind=1,1
  [4,3]((2,6,9),(2,8,11),(1,3,6),(1,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((3,11,16),(5,18,27),(1,4,6),(2,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,27),(1,4,6),(4,15,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,11),(1,4,6),(4,15,22)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,16),(5,18,27),(4,15,22)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,16),(2,8,11),(4,15,22)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,10),(3,11,16),(2,8,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,10),(1,3,5),(3,11,16),(5,18,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(5,18,27),(4,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,16),(5,18,27),(4,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,10),(3,11,16),(4,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,10),(1,3,5),(4,14,21)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,10),(2,6,9),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,6),(1,3,5),(5,18,27),(1,4,6)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((1,3,5),(5,18,27),(2,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(5,18,27),(2,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(1,3,5),(2,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,3,6),(2,7,11)); lvl=4; h,r-ind=1,1
  [3,3]((2,3,6),(2,6,9),(1,3,6)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,11,11),(1,5,5),(2,9,11),(1,5,6)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,10,11),(1,5,5),(2,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,11),(1,5,6),(2,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,11),(2,10,11),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,11),(2,10,11),(1,5,5)); lvl=3; h,r-ind=1,1
  [5,3]((1,5,5),(1,3,3),(2,9,11),(2,6,9),(2,8,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(2,7,10),(1,3,4),(2,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(3,10,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,10),(2,6,9),(3,10,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,10),(3,10,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,4),(3,10,14)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,3),(1,4,4),(1,4,5),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,4,5),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,5),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,4,4),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(2,7,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,5),(1,4,4),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(2,8,11),(2,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,11),(1,4,5),(2,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,5),(2,9,11),(1,4,5)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,6),(1,3,3),(2,6,9)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc
    [4,3]((1,2,3),(4,9,15),(2,6,9),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(4,10,15),(2,5,8),(2,6,9)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,12),(4,10,15),(2,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,9),(3,8,12),(2,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(2,6,9),(3,8,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,12),(4,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(4,10,15),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(4,9,15),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,2,3),(4,10,15)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,3),(1,2,3),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(3,7,9),(1,3,3),(1,3,4)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,6),(1,3,3),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,9),(2,5,6),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(3,7,9),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(2,5,6),(1,3,3)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,9),(1,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,2),(3,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,3),(1,2,2)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,6),(1,1,2),(1,2,3),(4,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,2),(4,7,12)); lvl=4; h,r-ind=1,1
```

```
        [4,3]((2,4,7),(2,3,6),(1,1,2),(4,7,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,9),(2,3,6),(1,1,2)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,12),(3,5,9),(1,1,2)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,7),(4,7,12),(3,5,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,7),(3,5,9),(2,3,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,7),(1,2,3),(4,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,15),(2,4,7),(1,2,3)); lvl=4; h,r-ind=1,1
      [4,3]((1,0,0),(2,3,3),(1,1,2),(1,2,3)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,3),(2,3,3),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(1,2,3),(1,1,1)); lvl=4; h,r-ind=1,1
        [4,3]((1,0,0),(1,1,2),(3,4,6),(1,1,1)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,2,3),(1,1,2),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(1,0,0),(2,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(3,4,6),(1,2,3)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,6),(2,11,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,11,11)); lvl=1; h,r-ind=11,11; optimized-h
  [3,3]((1,3,6),(1,5,10),(1,5,6)); lvl=1; h,r-ind=8,4; optimized-h
  [3,3]((1,5,10),(2,11,22),(1,6,11)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,11),(1,6,6)); lvl=1; h,r-ind=5,5; optimized-h
```

22.23 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,13,22)); lvl=0; h,r-ind=22,242
  [5,3]((1,5,5),(2,11,17),(2,11,11),(1,5,8),(2,7,10)); lvl=1; h,r-ind=3,1
    [3,3]((2,11,11),(1,5,6),(1,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(3,14,18),(1,5,6),(1,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,11),(3,14,18),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(2,9,11),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,5),(2,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,11),(3,14,18)); lvl=3; h,r-ind=1,1
    [5,3]((3,14,19),(4,19,25),(1,4,5),(3,14,18),(1,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,12),(3,14,18),(4,19,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,19),(2,9,12),(4,19,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,19),(2,9,12),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,12),(1,4,5),(3,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,12),(1,4,6),(1,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,8),(3,14,19),(1,5,7),(1,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,7),(3,14,19),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(3,14,19),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(1,5,7),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,5,8),(2,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,6),(2,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((2,10,13),(4,19,25),(3,14,18),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,19,25),(5,24,31),(3,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(5,24,31),(3,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,13),(4,19,25),(5,24,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,10,13),(5,24,31)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,14),(2,10,13),(2,11,11),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,26,32),(1,5,6),(2,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(5,26,32),(2,10,13)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((4,22,25),(2,11,11),(5,26,32),(1,5,6)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,11,12),(7,37,43),(1,5,6),(2,11,11)); lvl=4; h,r-ind=1,3
          [3,3]((7,37,43),(3,16,18),(1,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,11),(3,16,18),(1,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,12),(2,11,11),(3,16,18)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,12),(7,37,43),(3,16,18)); lvl=5; h,r-ind=1,1
        [4,3]((3,16,19),(7,37,43),(5,26,32),(1,5,6)); lvl=4; h,r-ind=1,3
          [3,3]((7,37,43),(4,21,25),(1,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((5,26,32),(4,21,25),(1,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,19),(5,26,32),(4,21,25)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,19),(7,37,43),(4,21,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,12),(3,16,19),(7,37,43)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,11,12),(4,22,25),(3,16,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,14),(4,22,25),(5,26,32)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,11,14),(2,11,17),(2,10,13),(1,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,26,35),(1,5,7),(2,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(5,26,35),(2,10,13)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((2,11,17),(4,22,31),(5,26,35),(1,5,7)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,5,7),(7,37,52),(3,16,22),(5,26,35)); lvl=4; h,r-ind=1,3
          [3,3]((4,21,29),(3,16,22),(7,37,52)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(4,21,29),(7,37,52)); lvl=5; h,r-ind=1,1
          [3,3]((5,26,35),(4,21,29),(3,16,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(5,26,35),(4,21,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,16),(7,37,52),(3,16,22)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,11,16),(4,22,31),(3,16,22)); lvl=4; h,r-ind=1,1
```

```
        [4,3]((1,5,7),(2,11,17),(2,11,16),(7,37,52)); lvl=4; h,r-ind=1,3
          [3,3]((2,11,17),(3,16,23),(2,11,16)); lvl=5; h,r-ind=1,1
          [3,3]((7,37,52),(3,16,23),(2,11,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(7,37,52),(3,16,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(2,11,17),(3,16,23)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,14),(4,22,31),(5,26,35)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,10,13),(3,14,19),(4,19,25),(1,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,24,32),(3,14,19),(4,19,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,13),(5,24,32),(4,19,25)); lvl=3; h,r-ind=1,1
      [3,3]((5,24,32),(1,5,7),(3,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,13),(5,24,32),(1,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,17),(1,5,8),(1,5,7)); lvl=2; h,r-ind=1,1
  [5,3]((2,9,15),(1,3,5),(1,2,3),(1,5,8),(2,7,10)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(1,4,6),(2,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(4,12,19),(2,7,11),(1,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,12,19),(3,9,14),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(3,9,14),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,4,6),(3,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,12,19),(3,9,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,8),(2,8,13),(2,7,11),(1,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,13),(2,7,11),(3,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,11),(3,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(1,4,6),(3,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(2,8,13),(3,12,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,15),(1,5,8),(2,8,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(2,9,15),(2,8,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(4,12,19),(2,8,13),(2,7,11)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,10,16),(4,12,19),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,13),(3,10,16),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,8,13),(3,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(3,10,16),(4,12,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,3),(4,12,19)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,10),(2,9,15),(1,5,8)); lvl=1; h,r-ind=1,1
  [3,3]((2,13,22),(1,6,10),(2,9,15)); lvl=1; h,r-ind=1,1
  [3,3]((2,13,22),(2,9,15),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,13,22),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,5),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(1,2,3),(1,5,5),(2,7,10)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,10),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,3,4),(2,5,5)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,4),(1,4,5),(2,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(2,5,5),(1,4,5),(1,5,5)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,5),(4,14,17),(2,7,7),(1,5,5)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,7,8),(1,4,4),(5,19,22)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,4,5),(1,5,5),(1,4,4),(5,19,22)); lvl=4; h,r-ind=1,3
          [3,3]((2,8,9),(1,4,4),(1,5,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(2,8,9),(1,5,5)); lvl=5; h,r-ind=1,1
          [3,3]((5,19,22),(2,8,9),(1,4,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(5,19,22),(2,8,9)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,5),(4,14,17),(2,7,8),(5,19,22)); lvl=4; h,r-ind=1,3
          [3,3]((2,7,8),(4,14,17),(3,11,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(4,14,17),(3,11,13)); lvl=5; h,r-ind=1,1
          [3,3]((5,19,22),(2,7,8),(3,11,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(5,19,22),(3,11,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,8),(2,7,7),(1,4,4)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(4,14,17),(2,7,7),(1,3,3)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,3),(4,13,15),(2,7,8),(2,7,7)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,10,11),(2,7,8),(4,13,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(3,10,11),(4,13,15)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,7),(3,10,11),(2,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(2,7,7),(3,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(1,3,3),(4,13,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(4,13,15),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(4,14,17),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,4),(4,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,5),(1,3,3)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,5),(2,11,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,5,5)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,6,10),(2,11,17),(1,5,8)); lvl=1; h,r-ind=1,1
  [5,3]((1,6,10),(0,1,0),(1,7,11),(2,11,17),(2,11,11)); lvl=1; h,r-ind=1,1
    [4,3]((2,11,11),(2,11,14),(2,12,15),(1,6,6)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((2,11,14),(2,12,15),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,22,25),(2,11,14),(1,6,7)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((2,11,11),(4,22,25),(1,6,6),(1,6,7)); lvl=3; h,r-ind=1,1
        [3,3]((4,23,25),(1,6,7),(1,6,6)); lvl=4; h,r-ind=1,1
        [4,3]((2,11,11),(2,11,12),(4,23,25),(1,6,6)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,17,18),(4,23,25),(2,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,11),(3,17,18),(2,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,6),(2,11,11),(3,17,18)); lvl=5; h,r-ind=1,1
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```
          [3,3]((1,6,6),(3,17,18),(4,23,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,12),(4,23,25),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,22,25),(2,11,12),(1,6,7)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(1,7,8),(2,12,15),(1,6,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,7,8),(2,14,15),(1,6,7),(2,12,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,15),(1,6,7),(2,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(2,13,15),(2,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,15),(2,13,15),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(2,12,15),(2,13,15)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,8),(2,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,14,15),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(1,6,7)); lvl=3; h,r-ind=1,1
    [5,3]((2,13,19),(1,6,9),(1,7,9),(1,7,8),(2,12,15)); lvl=2; h,r-ind=1,1
      [3,3]((4,27,34),(1,7,8),(1,7,9)); lvl=3; h,r-ind=1,1
      [4,3]((4,27,34),(2,13,18),(2,13,17),(1,7,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,17),(3,20,26),(2,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,9),(3,20,26),(2,13,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,27,34),(2,13,17),(3,20,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,9),(4,27,34),(3,20,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,19),(2,13,18),(1,7,9)); lvl=3; h,r-ind=1,1
      [4,3]((4,27,34),(2,13,17),(1,6,8),(1,7,8)); lvl=3; h,r-ind=1,1
        [3,3]((2,13,17),(1,6,8),(3,20,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(1,6,8),(3,20,25)); lvl=4; h,r-ind=1,1
        [3,3]((4,27,34),(2,13,17),(3,20,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(4,27,34),(3,20,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(2,12,15),(1,7,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,9),(2,13,18),(2,13,17),(1,6,8)); lvl=3; h,r-ind=1,1
        [3,3]((2,13,18),(2,13,17),(3,19,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(2,13,17),(3,19,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,9),(2,13,18),(3,19,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(1,6,9),(3,19,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,19),(1,6,9),(2,13,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,10),(2,13,19),(2,13,20),(1,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,13,20),(2,13,19),(3,19,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,9),(2,13,19),(3,19,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,10),(2,13,20),(3,19,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,9),(1,6,10),(3,19,29)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,7,9),(1,7,8)); lvl=2; h,r-ind=1,1
    [5,3]((1,7,11),(2,13,19),(2,13,20),(0,1,0),(1,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,7,10),(2,13,19),(2,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,11),(1,7,10),(2,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,10),(1,7,9),(2,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,10),(0,1,0),(1,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,11),(1,7,10),(0,1,0)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,10),(1,7,11),(2,13,20)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,11,11),(1,6,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,9),(2,11,17),(2,11,14),(2,12,15)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((1,6,8),(1,6,9),(2,11,17),(4,22,31)); lvl=3; h,r-ind=1,1
        [4,3]((4,23,33),(1,6,9),(2,11,16),(2,11,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,17,25),(2,11,16),(2,11,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,9),(3,17,25),(2,11,17)); lvl=5; h,r-ind=1,1
          [3,3]((4,23,33),(3,17,25),(2,11,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,9),(4,23,33),(3,17,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(4,23,33),(2,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,22,31),(1,6,8),(2,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(4,23,33),(1,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,14),(4,22,31)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((2,12,15),(1,6,8),(2,11,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,10),(1,6,9),(2,11,17)); lvl=2; h,r-ind=1,1
  [3,3]((2,13,22),(1,6,10),(1,7,11)); lvl=1; h,r-ind=1,1
```

22.24 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,15,22)); lvl=0; h,r-ind=22,242
  [3,3]((2,7,10),(1,0,0),(2,11,16)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,15,22),(1,0,0),(2,11,16)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,7,10),(2,7,10),(2,8,11),(3,20,29),(2,11,16)); lvl=1; h,r-ind=1,1
    [4,3]((2,11,16),(2,9,13),(6,30,43),(3,18,26)); lvl=2; h,r-ind=1,1
      [3,3]((3,16,23),(6,30,43),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((7,36,52),(3,16,23),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,16),(7,36,52),(2,9,13)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,16),(7,36,52),(3,16,23),(3,18,26)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,27,39),(7,36,52),(3,16,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,18,26),(5,27,39),(3,16,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,16),(3,18,26),(5,27,39)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,16),(5,27,39),(7,36,52)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,10),(1,5,7),(6,30,43),(3,18,26)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((1,5,7),(3,16,23),(6,30,43)); lvl=3; h,r-ind=1,1
      [3,3]((5,28,40),(1,5,7),(3,16,23)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,10),(5,28,40),(3,18,26),(3,16,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,28,40),(3,16,23),(4,23,33)); lvl=4; h,r-ind=1,1
        [3,3]((3,18,26),(3,16,23),(4,23,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,10),(3,18,26),(4,23,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,10),(5,28,40),(4,23,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,10),(5,28,40),(1,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((3,20,29),(2,11,16),(3,18,26)); lvl=2; h,r-ind=1,1
    [3,3]((1,7,10),(3,20,29),(3,18,26)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,7),(2,9,13),(2,7,10),(6,30,43)); lvl=2; h,r-ind=1,1
      [3,3]((3,14,20),(2,9,13),(2,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(3,14,20),(2,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((6,30,43),(3,14,20),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(6,30,43),(3,14,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(2,8,11),(2,7,10)); lvl=2; h,r-ind=1,1
  [3,3]((2,15,22),(3,20,29),(2,11,16)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,15,22),(1,7,10),(3,20,29)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,4),(2,11,11),(1,7,10),(2,8,11)); lvl=1; h,r-ind=9,3
    [3,3]((2,11,14),(1,7,10),(1,5,7)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,4,5),(2,11,14),(1,5,7)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((2,8,11),(1,4,5),(1,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,5),(1,4,4),(1,4,5),(2,11,14)); lvl=2; h,r-ind=1,3
      [3,3]((1,4,4),(1,4,5),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(1,4,5),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,4,4),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(1,5,5),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,7),(2,11,14),(1,7,10)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,5,5),(1,6,7),(2,11,14)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,5,5),(2,11,11),(1,6,7)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,8,11),(2,11,11),(1,7,10)); lvl=1; h,r-ind=1,1
    [3,3]((1,7,8),(1,6,7),(1,7,10)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,15,17),(2,15,20),(1,7,8),(1,7,10)); lvl=2; h,r-ind=1,1
      [4,3]((2,15,20),(4,30,37),(1,7,10),(1,7,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,10),(4,29,38),(1,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,19),(4,29,38),(1,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,19),(4,30,37),(1,7,9)); lvl=4; h,r-ind=1,1
        [4,3]((2,15,20),(2,15,19),(1,7,10),(4,29,38)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,22,29),(2,15,19),(4,29,38)); lvl=5; h,r-ind=1,1
          [3,3]((3,22,29),(1,7,10),(4,29,38)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,20),(3,22,29),(1,7,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,20),(3,22,29),(2,15,19)); lvl=5; h,r-ind=1,1
      [4,3]((2,15,17),(4,30,37),(1,7,8),(1,7,9)); lvl=3; h,r-ind=1,1
        [3,3]((4,29,35),(1,7,9),(1,7,8)); lvl=4; h,r-ind=1,1
        [4,3]((2,15,17),(2,15,18),(4,29,35),(1,7,8)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,22,26),(4,29,35),(2,15,18)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,17),(3,22,26),(2,15,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(2,15,17),(3,22,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(3,22,26),(4,29,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,18),(4,29,35),(1,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,30,37),(2,15,18),(1,7,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,11),(2,15,20),(1,7,10)); lvl=2; h,r-ind=1,1
    [5,3]((0,1,0),(1,8,11),(1,8,8),(2,15,17),(2,15,20)); lvl=2; h,r-ind=1,1
      [4,3]((2,15,20),(4,30,37),(1,8,10),(2,16,19)); lvl=3; h,r-ind=1,1
        [4,3]((7,54,67),(4,31,38),(1,8,10),(2,16,19)); lvl=4; h,r-ind=1,1
          [3,3]((5,39,48),(2,16,19),(1,8,10)); lvl=5; h,r-ind=1,1
          [3,3]((7,54,67),(5,39,48),(1,8,10)); lvl=5; h,r-ind=1,1
          [3,3]((4,31,38),(5,39,48),(2,16,19)); lvl=5; h,r-ind=1,1
          [3,3]((4,31,38),(7,54,67),(5,39,48)); lvl=5; h,r-ind=1,1
        [3,3]((3,23,28),(4,31,38),(2,16,19)); lvl=4; h,r-ind=1,1
        [4,3]((2,15,19),(7,54,67),(3,23,28),(4,31,38)); lvl=4; h,r-ind=1,1
          [3,3]((7,54,67),(6,46,57),(4,31,38)); lvl=5; h,r-ind=1,1
          [3,3]((3,23,28),(6,46,57),(4,31,38)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,19),(7,54,67),(6,46,57)); lvl=5; h,r-ind=1,1
          [3,3]((3,23,28),(2,15,19),(6,46,57)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,19),(3,23,28),(4,30,37)); lvl=4; h,r-ind=1,1
        [4,3]((2,15,20),(2,15,19),(7,54,67),(1,8,10)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,15,19),(7,54,67),(3,23,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,10),(7,54,67),(3,23,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,20),(2,15,19),(3,23,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,10),(2,15,20),(3,23,29)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,10),(2,16,19)); lvl=3; h,r-ind=1,1
      [4,3]((2,15,17),(1,8,9),(4,30,37),(2,16,19)); lvl=3; h,r-ind=1,1
        [4,3]((1,8,9),(2,16,19),(7,54,64),(4,31,37)); lvl=4; h,r-ind=1,1
          [3,3]((2,16,19),(4,31,37),(5,39,46)); lvl=5; h,r-ind=1,1
          [3,3]((7,54,64),(4,31,37),(5,39,46)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(7,54,64),(5,39,46)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(2,16,19),(5,39,46)); lvl=5; h,r-ind=1,1
        [4,3]((2,15,18),(3,23,28),(7,54,64),(4,31,37)); lvl=4; h,r-ind=1,1
          [3,3]((6,46,55),(3,23,28),(4,31,37)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((7,54,64),(6,46,55),(4,31,37)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,18),(7,54,64),(6,46,55)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,18),(6,46,55),(3,23,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,18),(3,23,28),(4,30,37)); lvl=4; h,r-ind=1,1
        [3,3]((3,23,28),(2,16,19),(4,31,37)); lvl=4; h,r-ind=1,1
        [4,3]((2,15,17),(2,15,18),(1,8,9),(7,54,64)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,15,18),(7,54,64),(3,23,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(7,54,64),(3,23,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,17),(2,15,18),(3,23,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(2,15,17),(3,23,27)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,9),(2,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,8),(2,15,17),(1,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,8),(1,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,20),(1,8,11),(1,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,11),(1,8,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,8),(2,14,15),(1,6,6),(1,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,6),(2,14,15),(2,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(2,14,15),(2,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(1,6,7),(2,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,6),(2,13,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,11),(1,6,6),(1,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,11,11),(1,6,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,8,8),(2,15,17),(1,7,8),(2,14,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,15,16),(2,15,17),(1,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,14,15),(2,15,16),(1,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,8),(2,14,15),(2,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,8),(2,15,16),(2,15,17)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,8,8),(2,14,15),(1,6,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,7,7),(2,14,15),(1,8,8)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(1,8,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,7),(1,6,6),(2,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(1,6,6)); lvl=3; h,r-ind=1,1
  [3,3]((2,15,22),(1,8,11),(1,7,10)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,4),(2,7,10),(2,8,11),(1,0,0)); lvl=1; h,r-ind=3,3
    [3,3]((1,3,4),(3,8,11),(2,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,8,11),(2,7,10)); lvl=2; h,r-ind=3,9; alert-r-inc; optimized-h
    [3,3]((2,8,11),(1,3,4),(2,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,8,11),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,3,4),(3,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,2),(1,3,4)); lvl=2; h,r-ind=2,2; optimized-h
    [4,3]((1,4,5),(1,4,4),(1,2,2),(1,3,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,4),(3,10,12),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,12),(2,6,7),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,6,7),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,2,2),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,10,12),(2,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,4),(3,10,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,5),(3,10,12),(1,4,4),(1,3,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,8),(1,3,3),(3,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,8),(3,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(1,4,4),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,8),(1,4,4)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(1,0,0)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((0,1,0),(1,4,4),(2,11,11)); lvl=1; h,r-ind=3,3; optimized-h
```

22.25 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,17,22)); lvl=0; h,r-ind=22,242
  [5,3]((2,11,11),(2,15,19),(1,3,3),(1,4,5),(1,7,9)); lvl=1; h,r-ind=1,1
    [4,3]((2,11,13),(1,5,6),(1,7,9),(2,13,16)); lvl=2; h,r-ind=1,1
      [3,3]((3,18,22),(1,7,9),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(3,18,22),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,16),(3,18,22),(1,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(2,13,16),(3,18,22)); lvl=3; h,r-ind=1,1
    [3,3]((2,15,19),(1,7,9),(2,13,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,13),(1,6,7),(2,13,16)); lvl=2; h,r-ind=1,1
    [4,3]((2,15,19),(2,13,15),(1,6,7),(2,13,16)); lvl=2; h,r-ind=1,1
      [4,3]((2,14,17),(2,13,15),(4,27,33),(1,6,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,6,7),(2,13,15),(3,20,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,17),(2,13,15),(3,20,24)); lvl=4; h,r-ind=1,1
        [3,3]((4,27,33),(1,6,7),(3,20,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,17),(4,27,33),(3,20,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,16),(4,27,33),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,19),(2,14,17),(4,27,33)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,13,16),(2,15,19),(4,27,33)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,11,11),(1,5,5),(2,13,15),(1,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,5),(1,6,7),(4,23,25)); lvl=3; h,r-ind=1,1
```

```
    [4,3]((2,12,13),(2,13,15),(1,6,7),(4,23,25)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,13,15),(3,18,20),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((4,23,25),(3,18,20),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,13),(4,23,25),(3,18,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,13),(2,13,15),(3,18,20)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,11),(2,12,13),(1,5,5),(4,23,25)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,17,18),(4,23,25),(2,12,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,11),(3,17,18),(2,12,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(2,11,11),(3,17,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(3,17,18),(4,23,25)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,5),(2,9,9),(2,11,13),(1,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,7),(4,21,23),(2,10,11),(2,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,21,23),(3,16,18),(2,10,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,13),(3,16,18),(2,10,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,13),(3,16,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(4,21,23),(3,16,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,5),(1,6,7),(4,21,23)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,5),(4,21,23),(2,9,9),(2,10,11)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,21,23),(3,15,16),(2,10,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,9),(3,15,16),(2,10,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(2,9,9),(3,15,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(4,21,23),(3,15,16)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,6),(1,4,5),(1,7,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,6),(1,3,3),(1,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((2,9,9),(2,11,13),(1,5,6),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(2,11,13),(3,15,17),(5,24,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,20,23),(3,15,17),(2,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(4,20,23),(2,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((5,24,27),(4,20,23),(3,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(5,24,27),(4,20,23)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,4),(2,10,11),(3,15,17),(5,24,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,11),(4,19,21),(3,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,24,27),(4,19,21),(3,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(2,10,11),(4,19,21)); lvl=4; h,r-ind=1,1
      [3,3]((5,24,27),(1,4,4),(4,19,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,4),(2,9,9),(2,10,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(1,4,4),(1,5,6),(5,24,27)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((1,4,4),(5,24,27),(2,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(5,24,27),(2,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,4,4),(2,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(1,3,3),(2,9,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,11),(2,11,13),(3,15,17)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(1,4,5),(1,7,9)); lvl=1; h,r-ind=1,1
[3,3]((2,17,22),(1,0,0),(1,7,9)); lvl=1; h,r-ind=1,1
[3,3]((2,17,22),(2,15,19),(1,7,9)); lvl=1; h,r-ind=1,1
[3,3]((0,1,0),(2,11,11),(1,3,3)); lvl=1; h,r-ind=5,5; optimized-h
[4,3]((0,1,0),(1,9,11),(2,11,11),(2,15,19)); lvl=1; h,r-ind=1,1
  [4,3]((2,13,15),(2,13,14),(1,8,10),(2,15,19)); lvl=2; h,r-ind=1,1
    [4,3]((2,15,19),(2,14,17),(1,7,8),(1,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(2,14,17),(3,22,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,19),(2,14,17),(3,22,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,10),(2,15,19),(3,22,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,10),(1,7,8),(3,22,27)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,15),(2,14,17),(1,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,15),(2,13,14),(1,7,8)); lvl=3; h,r-ind=1,1
  [4,3]((1,8,8),(2,13,14),(1,7,7),(1,8,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,7),(4,29,31),(1,7,8),(2,13,14)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((4,29,31),(2,14,15),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,14),(2,14,15),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,7),(2,13,14),(2,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,7),(4,29,31),(2,14,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,9),(2,15,16),(4,29,31),(1,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,22,24),(2,15,16),(4,29,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(3,22,24),(4,29,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,9),(3,22,24),(2,15,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(1,8,9),(3,22,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,10),(1,8,9),(1,7,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,8),(1,7,7),(2,15,16),(4,29,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,7),(3,22,23),(4,29,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,16),(3,22,23),(4,29,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,8),(2,15,16),(3,22,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,8),(1,7,7),(3,22,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,9),(1,8,8),(2,15,16)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,8,8),(1,9,11),(1,8,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,9,10),(1,8,9),(2,18,19),(1,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,18,19),(1,8,9),(2,17,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,10),(1,8,9),(2,17,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,10),(2,18,19),(2,17,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,10),(1,8,10),(2,17,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,11),(1,9,10),(1,8,10)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((0,1,0),(1,9,11),(1,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,9,10),(2,18,19)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,8,8),(1,8,9),(2,18,19)); lvl=3; h,r-ind=1,1
        [3,3]((1,8,8),(1,9,9),(1,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,18,19),(1,9,9),(1,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,18,19),(1,9,9)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,8,8),(1,9,9)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,8,8),(1,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,6),(2,13,14),(1,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,6),(1,7,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,11,11),(1,6,6),(2,13,15),(2,13,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,13,15),(2,13,14),(4,25,27)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,6,6),(2,13,14),(4,25,27)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,11),(2,12,13),(1,6,6),(4,25,27)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,18,19),(4,25,27),(2,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,11),(3,18,19),(2,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,18,19),(1,6,6),(4,25,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,11),(3,18,19),(1,6,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,13),(2,13,15),(4,25,27)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,11,11),(1,6,6)); lvl=2; h,r-ind=1,1
  [3,3]((2,17,22),(1,9,11),(2,15,19)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(1,3,3),(1,4,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

22.26 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,19,22)); lvl=0; h,r-ind=22,242
  [4,3]((2,8,9),(2,7,8),(1,2,2),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,7,8),(5,16,18),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,9),(1,1,1),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,8,9),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,8,9),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(1,0,0),(3,8,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,8,9),(1,2,2),(5,16,18),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(3,9,10),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(3,9,10),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,18),(2,8,9),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,18),(1,1,1),(3,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,9),(2,7,8),(5,16,18)); lvl=2; h,r-ind=1,1
  [4,3]((2,19,22),(3,20,23),(2,7,8),(1,0,0)); lvl=1; h,r-ind=1,2
    [3,3]((2,13,15),(3,20,23),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,13,15),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,19,22),(1,0,0),(2,13,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,19,22),(2,13,15),(3,20,23)); lvl=2; h,r-ind=1,1
  [4,3]((1,7,8),(3,20,23),(2,8,9),(2,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((3,14,16),(3,20,23),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,9),(3,14,16),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,7,8),(3,14,16),(3,20,23)); lvl=2; h,r-ind=1,1
    [3,3]((1,7,8),(2,8,9),(3,14,16)); lvl=2; h,r-ind=1,1
  [3,3]((2,19,22),(1,7,8),(3,20,23)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,7,8),(2,8,9),(1,8,9),(1,2,2),(2,11,11)); lvl=1; h,r-ind=1,1
    [4,3]((2,9,10),(1,4,4),(2,11,12),(1,2,2)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((2,10,11),(1,3,3),(2,11,12),(1,4,4)); lvl=3; h,r-ind=1,1
        [3,3]((3,14,15),(1,4,4),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(3,14,15),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(3,14,15),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(2,11,12),(3,14,15)); lvl=4; h,r-ind=1,1
      [4,3]((2,10,11),(2,9,10),(1,2,2),(1,3,3)); lvl=3; h,r-ind=1,1
        [3,3]((3,12,13),(1,2,2),(2,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(3,12,13),(2,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,10,11),(3,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(3,12,13),(1,2,2)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,9),(2,9,10),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,8),(2,9,10),(2,11,12),(6,41,46)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [3,3]((4,25,28),(2,11,12),(4,26,29)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((1,7,8),(6,41,46),(4,25,28),(4,26,29)); lvl=3; h,r-ind=1,2
        [3,3]((4,26,29),(6,41,46),(5,33,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(6,41,46),(5,33,37)); lvl=4; h,r-ind=1,1
        [3,3]((4,25,28),(4,26,29),(5,33,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(4,25,28),(5,33,37)); lvl=4; h,r-ind=1,1
      [3,3]((4,25,28),(2,10,11),(2,11,12)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((1,7,8),(2,9,10),(4,25,28),(2,10,11)); lvl=3; h,r-ind=1,2
        [3,3]((3,17,19),(2,10,11),(2,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(3,17,19),(2,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,25,28),(3,17,19),(2,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(4,25,28),(3,17,19)); lvl=4; h,r-ind=1,1
```

```
    [3,3]((2,8,9),(1,7,8),(2,9,10)); lvl=2; h,r-ind=1,1
    [5,3]((1,8,9),(1,5,5),(1,4,4),(2,11,12),(6,41,46)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,4),(2,12,13),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,9),(2,12,13),(1,5,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,4),(4,23,25),(2,12,13),(5,31,34)); lvl=3; h,r-ind=1,1
        [3,3]((4,23,25),(5,31,34),(6,35,38)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,13),(5,31,34),(6,35,38)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(4,23,25),(6,35,38)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,13),(1,4,4),(6,35,38)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(4,23,25),(2,11,12)); lvl=3; h,r-ind=1,1
      [5,3]((4,23,25),(4,27,30),(5,31,34),(4,26,29),(2,11,12)); lvl=3; h,r-ind=1,1
        [3,3]((3,19,21),(5,31,34),(4,23,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(3,19,21),(4,23,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(4,26,29),(3,19,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,27,30),(4,26,29),(3,19,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,27,30),(3,19,21),(5,31,34)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,9),(6,41,46),(4,27,30),(4,26,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,34,38),(4,26,29),(6,41,46)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(5,34,38),(6,41,46)); lvl=4; h,r-ind=1,1
        [3,3]((4,27,30),(1,8,9),(5,34,38)); lvl=4; h,r-ind=1,1
        [3,3]((4,27,30),(5,34,38),(4,26,29)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,9),(4,27,30),(2,12,13),(5,31,34)); lvl=3; h,r-ind=1,1
        [3,3]((4,27,30),(5,31,34),(6,39,43)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,13),(5,31,34),(6,39,43)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(2,12,13),(6,39,43)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(4,27,30),(6,39,43)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,8),(1,8,9),(6,41,46)); lvl=2; h,r-ind=1,1
    [3,3]((1,8,9),(1,5,5),(2,11,11)); lvl=2; h,r-ind=1,1
  [3,3]((2,19,22),(1,7,8),(1,8,9)); lvl=1; h,r-ind=1,1
  [4,3]((1,8,9),(0,1,0),(1,10,11),(2,11,11)); lvl=1; h,r-ind=1,1
    [4,3]((1,9,10),(1,10,11),(0,1,0),(1,8,8)); lvl=2; h,r-ind=1,1
      [3,3]((0,1,0),(1,9,9),(2,19,19)); lvl=3; h,r-ind=1,1
      [4,3]((1,9,10),(2,19,20),(1,9,9),(2,19,19)); lvl=3; h,r-ind=1,1
        [3,3]((2,19,20),(2,19,19),(3,28,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,9),(2,19,19),(3,28,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,10),(2,19,20),(3,28,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,9),(1,9,10),(3,28,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,8),(1,9,10),(1,9,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,10,11),(2,19,20),(0,1,0),(2,19,19)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,10,10),(2,19,20),(2,19,19)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,10,10),(2,19,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,10,11),(0,1,0),(1,10,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,10,11),(1,10,10),(2,19,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,10),(1,10,11),(2,19,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,8),(0,1,0),(1,9,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,6),(0,1,0),(1,8,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,11,11),(1,6,6),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((1,8,9),(1,6,6),(1,9,10),(1,8,8)); lvl=2; h,r-ind=1,1
      [4,3]((1,9,10),(3,24,26),(1,8,8),(1,7,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,16,17),(1,7,7),(3,24,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,10),(2,16,17),(3,24,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,17),(1,8,8),(1,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,10),(2,16,17),(1,8,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,9),(3,24,26),(1,6,6),(1,7,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,15,16),(3,24,26),(1,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(2,15,16),(1,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(1,6,6),(2,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(2,15,16),(3,24,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,9),(1,9,10),(3,24,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,9),(2,11,11),(1,6,6)); lvl=2; h,r-ind=1,1
  [3,3]((2,19,22),(1,8,9),(1,10,11)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(2,11,11)); lvl=1; h,r-ind=7,7; optimized-h
```

22.27 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,21,22)); lvl=0; h,r-ind=22,242
  [3,3]((2,11,11),(1,1,1),(0,1,0)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,11,11),(1,11,11),(0,1,0)); lvl=1; h,r-ind=11,11; optimized-h
  [3,3]((2,21,22),(2,11,11),(1,11,11)); lvl=1; h,r-ind=11,11; optimized-h
  [3,3]((2,21,22),(2,11,11),(1,1,1)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((1,0,0),(2,21,22),(1,1,1)); lvl=1; h,r-ind=1,1
```

22.28 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,3,22)); lvl=0; h,r-ind=22,484
  [3,3]((0,1,0),(1,0,0),(1,1,4)); lvl=1; h,r-ind=4,16; optimized-h
  [3,3]((1,1,7),(1,0,0),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,3,22),(1,1,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,7),(0,1,0),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,3,22),(1,1,7),(0,1,0)); lvl=1; h,r-ind=1,1
```

22.29 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,4,22)); lvl=0; h,r-ind=22,242
  [4,3]((3,4,22),(9,11,56),(4,5,25),(3,4,20)); lvl=1; h,r-ind=1,1
    [4,3]((15,19,97),(9,11,56),(4,5,26),(4,5,25)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((8,10,51),(4,5,26),(9,11,56)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,51),(4,5,25),(9,11,56)); lvl=3; h,r-ind=1,1
      [3,3]((15,19,97),(8,10,51),(4,5,25)); lvl=3; h,r-ind=1,1
      [3,3]((15,19,97),(8,10,51),(4,5,26)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,20),(7,9,46),(15,19,97),(4,5,25)); lvl=2; h,r-ind=1,1
      [3,3]((7,9,46),(15,19,97),(11,14,71)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,25),(15,19,97),(11,14,71)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,20),(7,9,46),(11,14,71)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,25),(3,4,20),(11,14,71)); lvl=3; h,r-ind=1,1
    [4,3]((7,9,46),(15,19,97),(3,4,21),(4,5,26)); lvl=2; h,r-ind=1,1
      [3,3]((11,14,72),(4,5,26),(15,19,97)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,46),(11,14,72),(15,19,97)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,46),(3,4,21),(11,14,72)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,21),(11,14,72),(4,5,26)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,22),(3,4,21),(4,5,26)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,20),(7,9,46),(3,4,21)); lvl=2; h,r-ind=1,1
  [6,3]((2,3,14),(4,5,24),(2,3,13),(3,4,18),(4,5,25),(3,4,20)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,19),(2,3,13),(2,3,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,19),(3,4,20),(2,3,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,19),(4,5,25),(3,4,20)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,24),(3,4,19),(4,5,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,19),(3,4,18),(2,3,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,24),(3,4,19),(3,4,18)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,22),(2,3,14),(3,4,20)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,2,6),(1,2,4),(3,4,11),(2,3,13),(3,4,18)); lvl=1; h,r-ind=1,2
    [4,3]((2,3,12),(2,3,10),(3,4,18),(6,8,29)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,10),(6,8,29),(3,4,15)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,10),(2,3,11),(3,4,16),(3,4,15)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,26),(3,4,16),(2,3,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(5,7,26),(2,3,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,15),(2,3,10),(5,7,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,15),(5,7,26),(3,4,16)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,12),(2,3,11),(3,4,18),(3,4,16)); lvl=3; h,r-ind=1,1
        [4,3]((7,10,40),(2,3,11),(3,4,17),(3,4,16)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,7,28),(3,4,17),(3,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,28),(2,3,11),(3,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,40),(5,7,28),(2,3,11)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,40),(5,7,28),(3,4,17)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,12),(7,10,40),(3,4,18),(3,4,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,17),(5,7,29),(3,4,18)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,12),(5,7,29),(3,4,18)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,40),(2,3,12),(5,7,29)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,40),(3,4,17),(5,7,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,12),(7,10,40),(2,3,11)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,8),(2,3,10),(3,4,11),(6,8,29)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,10),(2,3,9),(3,4,14),(3,4,13)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,23),(3,4,13),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(5,7,23),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(5,7,23),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(2,3,9),(5,7,23)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,8),(2,3,9),(3,4,11),(3,4,13)); lvl=3; h,r-ind=1,1
        [4,3]((7,10,29),(2,3,9),(3,4,12),(3,4,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,7,21),(3,4,12),(3,4,13)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,21),(2,3,9),(3,4,13)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,29),(5,7,21),(2,3,9)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,29),(5,7,21),(3,4,12)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,8),(7,10,29),(3,4,11),(3,4,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,11),(3,4,12),(5,7,20)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,29),(3,4,12),(5,7,20)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,8),(7,10,29),(5,7,20)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,8),(3,4,11),(5,7,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,8),(7,10,29),(2,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(6,8,29),(3,4,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,8),(1,2,4),(3,4,11)); lvl=2; h,r-ind=1,1
```

```
  [4,3]((1,2,6),(2,3,12),(2,3,10),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(4,7,22),(2,3,11),(2,3,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,11),(3,5,16),(4,7,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(3,5,16),(4,7,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(1,2,5),(3,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(2,3,11),(3,5,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,6),(1,2,5),(4,7,22)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,6),(4,7,22),(2,3,12),(2,3,11)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,12),(3,5,17),(2,3,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,22),(3,5,17),(2,3,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,3,12),(3,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,22),(1,2,6),(3,5,17)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,8),(2,3,10),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,5),(4,7,18)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,9),(2,3,10),(1,2,5),(4,7,18)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,5),(2,3,10),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(2,3,10),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,18),(1,2,5),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(4,7,18),(3,5,14)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,8),(2,3,9),(1,2,4),(4,7,18)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,13),(4,7,18),(2,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,8),(3,5,13),(2,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,13),(1,2,4),(4,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,8),(3,5,13),(1,2,4)); lvl=4; h,r-ind=1,1
  [3,3]((2,3,12),(2,3,13),(3,4,18)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,6),(2,3,12),(2,3,13)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(2,3,14),(1,2,6),(2,3,13)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,7),(2,3,14),(2,3,13),(4,7,26)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,3,14),(3,5,20),(2,3,13)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,26),(3,5,20),(2,3,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,7),(2,3,14),(3,5,20)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,26),(1,2,7),(3,5,20)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,6),(2,3,13),(4,7,26)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,6),(1,2,7),(4,7,26)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,4,13),(1,2,6),(4,7,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,13),(1,2,7),(4,7,26)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,13),(1,2,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,13),(1,2,6)); lvl=3; h,r-ind=1,1
[3,3]((3,4,22),(0,1,0),(2,3,14)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((0,1,0),(1,2,6),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((4,5,24),(1,1,5),(9,11,56),(4,5,25)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,5),(5,6,30),(9,11,56)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,25),(5,6,30),(9,11,56)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,24),(4,5,25),(5,6,30)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,24),(1,1,5),(5,6,30)); lvl=2; h,r-ind=1,1
[5,3]((4,5,24),(3,4,11),(3,4,18),(1,1,3),(1,1,5)); lvl=1; h,r-ind=1,1
  [4,3]((4,5,19),(4,5,23),(1,1,4),(1,1,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(1,1,5),(8,9,39)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,23),(4,5,21),(1,1,5),(8,9,39)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,1,5),(6,7,31),(6,7,30),(8,9,39)); lvl=4; h,r-ind=1,2
        [3,3]((6,7,30),(6,7,31),(7,8,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,5),(6,7,31),(7,8,35)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,39),(6,7,30),(7,8,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,5),(8,9,39),(7,8,35)); lvl=5; h,r-ind=1,1
      [4,3]((4,5,23),(4,5,22),(1,1,5),(6,7,31)); lvl=4; h,r-ind=1,2
        [3,3]((4,5,22),(6,7,31),(5,6,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,5),(6,7,31),(5,6,27)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,23),(4,5,22),(5,6,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,5),(4,5,23),(5,6,27)); lvl=5; h,r-ind=1,1
      [3,3]((6,7,31),(4,5,21),(6,7,30)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((4,5,22),(6,7,31),(4,5,21)); lvl=4; h,r-ind=2,2; optimized-h
    [4,3]((4,5,19),(4,5,21),(1,1,4),(8,9,39)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,1,4),(6,7,29),(6,7,30),(8,9,39)); lvl=4; h,r-ind=1,2
        [3,3]((6,7,29),(7,8,34),(6,7,30)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,39),(7,8,34),(6,7,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(6,7,29),(7,8,34)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,39),(1,1,4),(7,8,34)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,21),(6,7,29),(6,7,30)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((4,5,20),(4,5,21),(6,7,29)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,1,4),(4,5,20),(4,5,19),(6,7,29)); lvl=4; h,r-ind=1,2
        [3,3]((4,5,19),(4,5,20),(5,6,24)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,29),(4,5,20),(5,6,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(6,7,29),(5,6,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(4,5,19),(5,6,24)); lvl=5; h,r-ind=1,1
  [3,3]((4,5,23),(4,5,24),(1,1,5)); lvl=2; h,r-ind=1,1
  [4,3]((4,5,19),(6,8,29),(4,5,23),(3,4,18)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,21),(4,5,23),(3,4,16),(3,4,18)); lvl=3; h,r-ind=2,1; alert-h-inc
      [4,3]((4,5,23),(4,5,22),(3,4,18),(3,4,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,17),(3,4,18),(7,9,40)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,23),(3,4,18),(7,9,40)); lvl=5; h,r-ind=1,1
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          [3,3]((4,5,22),(4,5,23),(7,9,40)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,22),(3,4,17),(7,9,40)); lvl=5; h,r-ind=1,1
        [4,3]((4,5,21),(4,5,22),(3,4,16),(3,4,17)); lvl=4; h,r-ind=1,1
          [3,3]((7,9,38),(3,4,17),(3,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,21),(7,9,38),(3,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,22),(7,9,38),(3,4,17)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,21),(4,5,22),(7,9,38)); lvl=5; h,r-ind=1,1
      [4,3]((4,5,19),(4,5,21),(3,4,15),(3,4,16)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,15),(3,4,16),(10,13,51)); lvl=4; h,r-ind=1,1
        [4,3]((4,5,20),(4,5,21),(3,4,16),(10,13,51)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((7,9,36),(4,5,21),(3,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((10,13,51),(7,9,36),(3,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,20),(10,13,51),(7,9,36)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,20),(7,9,36),(4,5,21)); lvl=5; h,r-ind=1,1
        [4,3]((4,5,19),(4,5,20),(3,4,15),(10,13,51)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,5,20),(10,13,51),(7,9,35)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,15),(10,13,51),(7,9,35)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,19),(4,5,20),(7,9,35)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,15),(4,5,19),(7,9,35)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,19),(6,8,29),(3,4,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,23),(4,5,24),(3,4,18)); lvl=2; h,r-ind=1,1
    [5,3]((3,4,11),(4,5,19),(6,8,29),(1,1,4),(1,1,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,4),(1,1,3),(7,8,27)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,11),(3,4,13),(1,1,3),(7,8,27)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,1,3),(5,6,19),(5,6,20),(7,8,27)); lvl=4; h,r-ind=1,2
          [3,3]((5,6,19),(6,7,23),(5,6,20)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,27),(6,7,23),(5,6,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(5,6,19),(6,7,23)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,27),(1,1,3),(6,7,23)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,13),(5,6,19),(5,6,20)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((3,4,12),(3,4,13),(5,6,19)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,1,3),(3,4,12),(3,4,11),(5,6,19)); lvl=4; h,r-ind=1,2
          [3,3]((3,4,11),(3,4,12),(4,5,15)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,19),(3,4,12),(4,5,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(5,6,19),(4,5,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(3,4,11),(4,5,15)); lvl=5; h,r-ind=1,1
      [5,3]((3,4,13),(3,4,14),(1,1,4),(8,10,37),(7,8,27)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,18),(8,10,37),(1,1,4)); lvl=4; h,r-ind=1,1
        [4,3]((5,6,21),(8,10,35),(4,5,18),(1,1,4)); lvl=4; h,r-ind=1,1
          [3,3]((4,5,18),(8,10,35),(9,11,39)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,21),(8,10,35),(9,11,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(5,6,21),(9,11,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(4,5,18),(9,11,39)); lvl=5; h,r-ind=1,1
        [4,3]((7,8,27),(5,6,20),(5,6,21),(1,1,4)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((6,7,24),(5,6,20),(5,6,21)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,24),(1,1,4),(5,6,21)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,27),(6,7,24),(1,1,4)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,27),(6,7,24),(5,6,20)); lvl=5; h,r-ind=1,1
        [4,3]((3,4,14),(7,9,31),(8,10,35),(4,5,18)); lvl=4; h,r-ind=1,1
          [3,3]((8,10,35),(7,9,31),(11,14,49)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,14),(7,9,31),(11,14,49)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,18),(3,4,14),(11,14,49)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,18),(8,10,35),(11,14,49)); lvl=5; h,r-ind=1,1
        [4,3]((3,4,13),(5,6,21),(7,9,31),(8,10,35)); lvl=4; h,r-ind=1,1
          [4,3]((4,5,17),(5,6,21),(8,10,35),(19,24,83)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((12,15,52),(5,6,21),(8,10,35)); lvl=6; h,r-ind=1,1
            [3,3]((19,24,83),(12,15,52),(8,10,35)); lvl=6; h,r-ind=1,1
            [3,3]((4,5,17),(19,24,83),(12,15,52)); lvl=6; h,r-ind=1,1
            [3,3]((4,5,17),(12,15,52),(5,6,21)); lvl=6; h,r-ind=1,1
          [3,3]((7,9,31),(8,10,35),(19,24,83)); lvl=5; h,r-ind=1,1
          [4,3]((7,9,31),(3,4,13),(4,5,17),(19,24,83)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((11,14,48),(3,4,13),(4,5,17)); lvl=6; h,r-ind=1,1
            [3,3]((19,24,83),(11,14,48),(4,5,17)); lvl=6; h,r-ind=1,1
            [3,3]((7,9,31),(19,24,83),(11,14,48)); lvl=6; h,r-ind=1,1
            [3,3]((7,9,31),(11,14,48),(3,4,13)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,13),(5,6,20),(5,6,21)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [3,3]((3,4,14),(4,5,18),(8,10,37)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,14),(3,4,13),(7,9,31)); lvl=4; h,r-ind=1,1
      [4,3]((4,5,19),(6,8,29),(3,4,14),(8,10,37)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,9,33),(6,8,29),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((8,10,37),(7,9,33),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,19),(8,10,37),(7,9,33)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,19),(7,9,33),(6,8,29)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,19),(1,1,4),(8,10,37)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(1,1,5)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,0,0),(0,1,0),(1,2,4),(3,4,11),(1,1,3)); lvl=1; h,r-ind=1,1
    [6,3]((3,4,9),(3,5,10),(1,2,3),(5,7,16),(3,4,8),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,6),(3,5,10),(4,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,16),(2,3,6),(4,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(5,7,16),(2,3,6)); lvl=3; h,r-ind=1,1
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    [3,3]((3,4,9),(3,4,8),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(3,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(1,2,3),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,8),(2,3,5),(2,3,6)); lvl=3; h,r-ind=1,1
  [5,3]((2,3,4),(2,2,3),(1,1,2),(3,4,8),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,7),(1,1,2),(3,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(3,4,7),(3,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(2,3,5),(5,7,11)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,8),(3,4,7),(6,8,13),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,7),(6,8,13),(7,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(6,8,13),(7,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,8),(7,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,7),(7,9,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,2,3),(4,5,8),(1,1,2)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,5),(5,7,11),(3,4,7),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,18),(6,8,13),(3,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(8,11,18),(3,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(8,11,18),(6,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(5,7,11),(8,11,18)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,4),(4,5,8),(5,7,11),(6,8,13)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,6),(4,5,8),(6,8,13),(14,19,30)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((9,12,19),(4,5,8),(6,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((14,19,30),(9,12,19),(6,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,6),(14,19,30),(9,12,19)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,6),(9,12,19),(4,5,8)); lvl=5; h,r-ind=1,1
      [3,3]((5,7,11),(6,8,13),(14,19,30)); lvl=4; h,r-ind=1,1
      [4,3]((5,7,11),(2,3,4),(3,4,6),(14,19,30)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,6),(2,3,4),(8,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,11),(2,3,4),(8,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((14,19,30),(3,4,6),(8,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,11),(14,19,30),(8,11,17)); lvl=5; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(4,5,8)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((0,1,0),(1,2,3),(2,3,4),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(2,3,4),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,4),(3,5,7),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,10),(1,2,2),(3,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,4),(3,5,10),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,10),(2,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,10),(2,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(2,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,4),(2,4,7)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,3),(3,4,9),(1,1,2),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,9),(3,4,8),(4,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,8),(4,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,9),(4,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,1,3),(4,5,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,3),(3,4,9),(3,4,10),(5,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,9),(5,7,16),(6,8,19)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,10),(5,7,16),(6,8,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,9),(6,8,19)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,10),(1,1,3),(6,8,19)); lvl=3; h,r-ind=1,1
  [5,3]((1,2,4),(3,5,10),(3,4,11),(3,4,10),(5,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,16),(4,6,13),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,10),(4,6,13),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,10),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,10),(5,7,16),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,11),(3,4,10),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,4,11),(2,3,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,3),(3,4,11),(3,4,10)); lvl=2; h,r-ind=1,1
[4,3]((3,4,22),(2,2,11),(1,1,5),(9,11,56)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,11),(5,6,32),(1,1,5)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,26),(5,6,32),(1,1,5)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,26),(9,11,56),(1,1,5)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,22),(4,5,26),(5,6,32)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
```

```
    [3,3]((3,4,22),(2,2,11),(5,6,32)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(2,2,11),(1,1,5)); lvl=1; h,r-ind=1,1
```

22.30 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,5,22)); lvl=0; h,r-ind=22,484
  [5,3]((3,4,16),(2,3,11),(2,2,5),(1,1,4),(2,3,7)); lvl=1; h,r-ind=1,1
    [4,3]((3,4,15),(2,3,11),(2,3,9),(6,8,25)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,13),(6,8,27),(2,3,9),(2,3,10)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,23),(2,3,9),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,27),(5,7,23),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,13),(5,7,23),(2,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,13),(6,8,27),(5,7,23)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,15),(6,8,27),(2,3,11),(2,3,10)); lvl=3; h,r-ind=1,1
        [3,3]((7,10,35),(2,3,10),(2,3,11)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,15),(3,4,14),(7,10,35),(2,3,11)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,14),(5,7,25),(7,10,35)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,11),(5,7,25),(7,10,35)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,15),(2,3,11),(5,7,25)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,15),(3,4,14),(5,7,25)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,14),(7,10,35),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,27),(3,4,14),(2,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,25),(3,4,13),(2,3,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,3),(2,3,7),(2,3,9),(6,8,25)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,8),(6,8,23),(2,3,9),(3,4,12)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,20),(3,4,12),(6,8,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(5,7,20),(6,8,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(2,3,8),(5,7,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(5,7,20),(3,4,12)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,25),(2,3,9),(3,4,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(6,8,25),(3,4,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(6,8,23),(3,4,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,3),(2,3,8),(2,3,7),(6,8,23)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,11),(2,3,7),(2,3,8)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,23),(3,4,11),(2,3,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(6,8,23),(3,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(3,4,11),(2,3,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,2,5),(1,1,3),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,4),(3,4,15),(1,1,3),(6,8,25)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,3),(6,7,24),(6,8,27),(3,4,13)); lvl=3; h,r-ind=1,1
        [4,3]((3,4,13),(8,10,33),(4,5,17),(6,8,27)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((7,9,30),(4,5,17),(8,10,33)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,13),(7,9,30),(8,10,33)); lvl=5; h,r-ind=1,1
          [3,3]((6,8,27),(7,9,30),(4,5,17)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,13),(6,8,27),(7,9,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(8,10,33),(4,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,13),(1,1,3),(8,10,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(4,5,17),(6,7,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(6,8,25),(3,4,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,4),(3,4,15),(6,7,24),(6,8,27)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((4,5,17),(3,4,14),(9,11,39)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,1,4),(3,4,15),(3,4,14),(9,11,39)); lvl=4; h,r-ind=1,3
          [3,3]((4,5,18),(3,4,14),(3,4,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(4,5,18),(3,4,15)); lvl=5; h,r-ind=1,1
          [3,3]((9,11,39),(4,5,18),(3,4,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(9,11,39),(4,5,18)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,4),(6,7,24),(4,5,17),(9,11,39)); lvl=4; h,r-ind=1,3
          [3,3]((5,6,21),(4,5,17),(6,7,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(5,6,21),(6,7,24)); lvl=5; h,r-ind=1,1
          [3,3]((9,11,39),(5,6,21),(4,5,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(9,11,39),(5,6,21)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,17),(6,8,27),(3,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,4),(6,7,24)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,16),(1,1,4),(3,4,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,16),(3,4,15),(2,3,11)); lvl=2; h,r-ind=1,1
  [5,3]((3,5,18),(1,2,6),(1,2,4),(2,3,11),(2,3,7)); lvl=1; h,r-ind=1,1
    [5,3]((6,10,29),(2,3,9),(2,3,7),(1,2,5),(1,2,4)); lvl=2; h,r-ind=1,1
      [5,3]((1,2,4),(2,3,8),(3,5,13),(2,3,7),(5,9,22)); lvl=3; h,r-ind=1,1
        [3,3]((3,5,13),(5,9,22),(4,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(5,9,22),(4,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((7,12,29),(1,2,4),(4,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,12),(7,12,29),(1,2,4)); lvl=4; h,r-ind=1,1
        [4,3]((6,10,25),(7,12,29),(3,5,13),(4,7,17)); lvl=4; h,r-ind=1,1
          [3,3]((10,17,42),(4,7,17),(7,12,29)); lvl=5; h,r-ind=1,1
          [3,3]((6,10,25),(10,17,42),(7,12,29)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,13),(10,17,42),(4,7,17)); lvl=5; h,r-ind=1,1
          [3,3]((6,10,25),(3,5,13),(10,17,42)); lvl=5; h,r-ind=1,1
```

```
      [3,3]((2,3,8),(6,10,25),(3,5,13)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,8),(3,5,12),(6,10,25),(7,12,29)); lvl=4; h,r-ind=1,1
        [3,3]((9,15,37),(7,12,29),(3,5,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,8),(9,15,37),(3,5,12)); lvl=5; h,r-ind=1,1
        [3,3]((6,10,25),(9,15,37),(7,12,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,8),(6,10,25),(9,15,37)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,8),(3,5,12),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,12),(1,2,4),(2,3,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,4),(5,9,22)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,14),(1,2,5),(3,5,13),(5,9,22)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,5),(5,9,22),(4,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,13),(5,9,22),(4,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,14),(3,5,13),(4,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,14),(1,2,5),(4,7,18)); lvl=4; h,r-ind=1,1
    [3,3]((6,10,29),(3,5,14),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(6,10,29),(3,5,14)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,9),(3,5,14),(2,3,8),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,22),(3,5,13),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(5,8,22),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,8),(5,8,22),(3,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(2,3,8),(5,8,22)); lvl=4; h,r-ind=1,1
  [4,3]((3,5,17),(1,2,6),(6,10,29),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,6),(6,11,32)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,17),(6,10,31),(1,2,6),(6,11,32)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,2,6),(9,16,49),(4,7,21),(6,11,32)); lvl=4; h,r-ind=1,3
        [3,3]((9,16,49),(5,9,27),(4,7,21)); lvl=5; h,r-ind=1,1
        [3,3]((6,11,32),(5,9,27),(4,7,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(9,16,49),(5,9,27)); lvl=5; h,r-ind=1,1
        [3,3]((6,11,32),(1,2,6),(5,9,27)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,16),(9,16,49),(4,7,21)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,6),(3,5,17),(3,5,16),(9,16,49)); lvl=4; h,r-ind=1,3
        [3,3]((4,7,22),(3,5,17),(3,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((9,16,49),(4,7,22),(3,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(9,16,49),(4,7,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(4,7,22),(3,5,17)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,16),(4,7,21),(6,10,31)); lvl=4; h,r-ind=1,1
    [4,3]((6,10,31),(3,5,15),(1,2,5),(6,11,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,15),(8,14,41),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,21),(8,14,41),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,21),(6,11,32),(1,2,5)); lvl=4; h,r-ind=1,1
      [4,3]((6,10,31),(4,7,21),(3,5,15),(8,14,41)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,7,21),(7,12,36),(8,14,41)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,15),(7,12,36),(8,14,41)); lvl=5; h,r-ind=1,1
        [3,3]((6,10,31),(4,7,21),(7,12,36)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,15),(6,10,31),(7,12,36)); lvl=5; h,r-ind=1,1
    [3,3]((3,5,15),(6,10,29),(1,2,5)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,18),(3,5,17),(1,2,6)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,17),(2,3,11),(6,10,29),(2,3,9)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,15),(6,10,31),(2,3,9),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(2,3,9),(5,8,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,15),(2,3,9),(5,8,25)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,31),(3,5,15),(5,8,25)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,31),(2,3,10),(5,8,25)); lvl=4; h,r-ind=1,1
    [4,3]((3,5,17),(6,10,31),(2,3,11),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(2,3,11),(7,11,37)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,17),(3,5,16),(2,3,11),(7,11,37)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,8,27),(3,5,16),(7,11,37)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,11),(5,8,27),(7,11,37)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,17),(5,8,27),(3,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,11),(3,5,17),(5,8,27)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,16),(2,3,10),(7,11,37)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,16),(6,10,31),(2,3,10)); lvl=4; h,r-ind=1,1
    [3,3]((6,10,29),(3,5,15),(2,3,9)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,18),(3,5,17),(2,3,11)); lvl=2; h,r-ind=1,1
[5,3]((1,2,7),(7,12,48),(3,5,20),(3,5,18),(1,2,6)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,20),(3,5,19),(4,7,27),(4,7,26)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,27),(4,7,26),(7,12,46)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,19),(4,7,26),(7,12,46)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,20),(4,7,27),(7,12,46)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,19),(3,5,20),(7,12,46)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,7),(6,11,39),(4,7,27),(4,7,26)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((4,7,27),(5,9,33),(4,7,26)); lvl=3; h,r-ind=1,1
    [3,3]((6,11,39),(5,9,33),(4,7,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,7),(4,7,27),(5,9,33)); lvl=3; h,r-ind=1,1
    [3,3]((6,11,39),(1,2,7),(5,9,33)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,7),(6,11,39),(1,2,6)); lvl=2; h,r-ind=1,1
  [5,3]((6,11,39),(1,2,6),(3,5,19),(3,5,18),(4,7,26)); lvl=2; h,r-ind=1,1
    [4,3]((4,7,26),(9,16,57),(5,9,32),(8,14,51)); lvl=3; h,r-ind=1,1
      [3,3]((13,23,83),(9,16,57),(5,9,32)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,26),(13,23,83),(5,9,32)); lvl=4; h,r-ind=1,1
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        [3,3]((8,14,51),(4,7,26),(13,23,83)); lvl=4; h,r-ind=1,1
        [3,3]((8,14,51),(13,23,83),(9,16,57)); lvl=4; h,r-ind=1,1
      [3,3]((6,11,39),(4,7,26),(5,9,32)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,19),(4,7,25),(9,16,57),(8,14,51)); lvl=3; h,r-ind=1,1
        [3,3]((4,7,25),(12,21,76),(9,16,57)); lvl=4; h,r-ind=1,1
        [3,3]((8,14,51),(12,21,76),(9,16,57)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,19),(4,7,25),(12,21,76)); lvl=4; h,r-ind=1,1
        [3,3]((8,14,51),(3,5,19),(12,21,76)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,26),(3,5,19),(8,14,51)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,19),(3,5,18),(4,7,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(4,7,25),(9,16,57)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,18),(1,2,6),(4,7,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(9,16,57),(5,9,32)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,39),(1,2,6),(5,9,32)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,20),(7,12,48),(4,7,27)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,7),(7,12,48),(4,7,27)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,7),(1,2,6)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,22),(0,1,0),(1,2,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,6),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((3,4,17),(5,7,29),(3,4,16),(1,1,4)); lvl=1; h,r-ind=1,1
    [3,3]((6,8,33),(3,4,16),(5,7,29)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,17),(6,8,33),(5,7,29)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(6,8,33),(3,4,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,17),(1,1,4),(6,8,33)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,4,17),(1,1,4)); lvl=1; h,r-ind=1,1
  [7,3]((3,5,20),(5,8,33),(3,5,18),(5,7,29),(4,6,25),(3,4,16),(2,3,11)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,12),(5,8,33),(4,6,25)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,29),(2,3,12),(4,6,25)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,29),(2,3,12),(3,4,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,12),(3,5,20),(5,8,33)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,12),(3,5,20),(3,5,19)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,12),(3,5,19),(3,5,18)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,12),(2,3,11),(3,5,18)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,12),(3,4,16),(2,3,11)); lvl=2; h,r-ind=1,1
  [4,3]((7,12,48),(3,5,21),(3,5,20),(5,8,33)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,21),(5,8,33),(6,10,41)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,20),(5,8,33),(6,10,41)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,20),(7,12,48),(6,10,41)); lvl=2; h,r-ind=1,1
    [3,3]((7,12,48),(3,5,21),(6,10,41)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,22),(1,2,7),(7,12,48),(3,5,21)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,7),(4,7,28),(7,12,48)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,21),(4,7,28),(7,12,48)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,22),(3,5,21),(4,7,28)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,22),(1,2,7),(4,7,28)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,13),(3,4,17),(5,7,29),(4,6,25)); lvl=1; h,r-ind=1,1
    [3,3]((7,10,42),(5,7,29),(3,4,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,13),(7,10,42),(3,4,17)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,25),(7,10,42),(5,7,29)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,13),(4,6,25),(7,10,42)); lvl=2; h,r-ind=1,1
  [5,3]((3,5,22),(3,5,21),(5,8,33),(2,3,13),(4,6,25)); lvl=1; h,r-ind=1,1
    [5,3]((12,19,80),(9,14,59),(4,6,25),(5,8,33),(10,16,67)); lvl=2; h,r-ind=1,1
      [3,3]((4,6,25),(7,11,46),(9,14,59)); lvl=3; h,r-ind=1,1
      [3,3]((12,19,80),(7,11,46),(9,14,59)); lvl=3; h,r-ind=1,1
      [3,3]((12,19,80),(10,16,67),(7,11,46)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,25),(7,11,46),(5,8,33)); lvl=3; h,r-ind=1,1
      [3,3]((10,16,67),(7,11,46),(5,8,33)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,21),(5,8,33),(10,16,67)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,21),(5,8,34),(12,19,80),(10,16,67)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,34),(12,19,80),(15,24,101)); lvl=3; h,r-ind=1,1
      [3,3]((10,16,67),(12,19,80),(15,24,101)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,21),(5,8,34),(15,24,101)); lvl=3; h,r-ind=1,1
      [3,3]((10,16,67),(3,5,21),(15,24,101)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,22),(3,5,21),(5,8,34)); lvl=2; h,r-ind=1,1
    [4,3]((5,8,34),(12,19,80),(9,14,59),(2,3,13)); lvl=2; h,r-ind=1,1
      [3,3]((12,19,80),(14,22,93),(9,14,59)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(14,22,93),(9,14,59)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,34),(12,19,80),(14,22,93)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(5,8,34),(14,22,93)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,22),(5,8,34),(2,3,13)); lvl=2; h,r-ind=1,1
    [3,3]((9,14,59),(2,3,13),(4,6,25)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,13),(3,4,17)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,22),(1,0,0),(2,3,13)); lvl=1; h,r-ind=1,1
  [5,3]((0,1,0),(1,2,4),(1,0,0),(2,2,5),(2,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,5),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,1,2),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,6),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,6),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(2,3,5),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(2,3,4),(1,1,2)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,2,2),(2,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,2),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,2),(1,0,0),(2,2,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(2,2,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=3; h,r-ind=1,1
    [5,3]((0,1,0),(1,2,2),(1,2,4),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,3),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,3),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,5),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
```

22.31 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,6,22)); lvl=0; h,r-ind=22,242
  [3,3]((1,2,7),(1,2,6),(2,3,10)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,4),(1,0,0),(1,2,6),(2,3,10)); lvl=1; h,r-ind=2,2
    [3,3]((1,0,0),(1,1,3),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(1,1,3),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(1,2,5),(1,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(1,2,4),(1,2,5),(1,1,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,5),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,2,5),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,2),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,0,0),(1,1,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,4),(1,0,0)); lvl=1; h,r-ind=4,8; optimized-h
  [3,3]((1,2,7),(1,0,0),(2,3,10)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,7),(1,0,0),(2,3,11)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,22),(1,2,7),(2,3,11)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,7),(1,2,6)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,22),(0,1,0),(1,2,7)); lvl=1; h,r-ind=1,1
```

22.32 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,7,22)); lvl=0; h,r-ind=22,484
  [3,3]((1,1,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,22),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((0,1,0),(2,4,7),(1,3,4),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,2
    [3,3]((1,2,3),(1,3,4),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,2,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,2),(0,1,0)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((1,2,2),(2,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,4),(2,2,3),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,2),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,2),(2,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,1),(5,6,8),(1,2,2),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,1,1),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(5,6,8),(2,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,1),(2,2,3),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,4),(1,1,1),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(1,1,1)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,7),(1,2,3),(1,3,4)); lvl=2; h,r-ind=1,1
  [5,3]((1,1,3),(2,3,9),(2,4,7),(1,1,2),(1,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,9),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,9),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,2),(4,5,12)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,7),(1,2,4),(1,2,5),(2,3,8)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((3,5,12),(1,2,5),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(3,5,12),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(3,5,12),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,8),(3,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,3),(2,3,7),(4,5,12),(2,3,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,10),(4,5,12),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(3,4,10),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,8),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,10),(4,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,7),(4,5,12),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,12),(3,4,9),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,4,9),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,12),(3,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,4),(2,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,22),(1,1,3),(2,3,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,6),(2,3,9),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,22),(5,12,35),(2,5,14)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,22),(1,2,6),(5,12,35)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((3,7,22),(1,2,6),(2,3,9)); lvl=1; h,r-ind=1,1
  [5,3]((2,5,11),(1,3,5),(2,4,7),(1,3,4),(1,2,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,5),(4,11,18),(2,5,10),(2,5,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,14),(2,5,10),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,18),(3,8,14),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(4,11,18),(3,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(3,8,14),(2,5,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(1,2,4),(2,5,10),(2,5,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,10),(2,5,9),(3,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(3,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,10),(3,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,5),(3,7,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(1,2,5),(2,5,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(1,2,4),(4,11,18),(2,5,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(3,8,13),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,18),(3,8,13),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(4,11,18),(3,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,2,4),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,4,7),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,11),(1,3,5),(2,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,5),(4,11,18)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,6),(5,12,35),(2,5,14),(2,5,11),(1,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,20),(2,5,14),(5,12,35)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(3,7,20),(5,12,35)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,20),(6,14,37),(2,5,14),(4,10,25)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((4,10,25),(5,12,31),(2,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,19),(5,12,31),(2,5,13)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,20),(3,7,19),(2,5,14),(2,5,13)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,13),(2,5,14),(5,12,33)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,20),(2,5,14),(5,12,33)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,19),(3,7,20),(5,12,33)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,19),(2,5,13),(5,12,33)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,19),(6,14,37),(5,12,31)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,6),(3,7,20),(6,13,35),(6,14,37)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,7,19),(4,9,24),(9,20,55)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,6),(3,7,20),(3,7,19),(9,20,55)); lvl=3; h,r-ind=1,3
        [3,3]((3,7,19),(4,9,25),(3,7,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(4,9,25),(3,7,20)); lvl=4; h,r-ind=1,1
        [3,3]((9,20,55),(3,7,19),(4,9,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(9,20,55),(4,9,25)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,6),(6,13,35),(4,9,24),(9,20,55)); lvl=3; h,r-ind=1,3
        [3,3]((6,13,35),(5,11,30),(4,9,24)); lvl=4; h,r-ind=1,1
        [3,3]((9,20,55),(5,11,30),(4,9,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(9,20,55),(5,11,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(6,13,35),(5,11,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,19),(4,9,24),(6,14,37)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(6,13,35),(1,2,5)); lvl=2; h,r-ind=1,1
    [5,3]((6,13,35),(6,14,37),(1,2,5),(4,10,25),(2,5,11)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,5),(4,9,23),(2,5,11),(2,5,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,11),(3,7,17),(2,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,23),(3,7,17),(2,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(4,9,23),(3,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(2,5,11),(3,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,18),(4,9,23),(2,5,12)); lvl=3; h,r-ind=1,1
      [4,3]((4,10,25),(5,12,31),(3,7,18),(2,5,12)); lvl=3; h,r-ind=1,1
        [3,3]((7,17,43),(5,12,31),(3,7,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(7,17,43),(3,7,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,25),(2,5,12),(7,17,43)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,25),(7,17,43),(5,12,31)); lvl=4; h,r-ind=1,1
      [4,3]((6,14,37),(4,9,24),(5,12,31),(3,7,18)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,18),(4,9,24),(9,21,55)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((6,14,37),(4,9,24),(9,21,55)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,31),(6,14,37),(9,21,55)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,31),(3,7,18),(9,21,55)); lvl=4; h,r-ind=1,1
    [3,3]((4,9,24),(3,7,18),(4,9,23)); lvl=3; h,r-ind=1,1
    [4,3]((4,9,24),(6,13,35),(1,2,5),(4,9,23)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,5),(6,13,35),(5,11,29)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,24),(6,13,35),(5,11,29)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,23),(1,2,5),(5,11,29)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,24),(4,9,23),(5,11,29)); lvl=4; h,r-ind=1,1
[4,3]((0,1,0),(2,5,14),(2,5,11),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,10,25),(1,3,6),(2,5,11)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,3,5),(1,3,6),(2,5,11)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,5),(1,3,6)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,7),(2,5,14),(4,10,25),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(4,10,25),(2,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(4,11,26),(2,5,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,7),(4,11,26),(2,5,14),(2,5,13)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,14),(3,8,20),(2,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,26),(3,8,20),(2,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,14),(3,8,20)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,26),(1,3,7),(3,8,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,7),(1,3,6),(4,11,26)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,7),(1,3,6)); lvl=2; h,r-ind=1,1
[3,3]((3,7,22),(0,1,0),(2,5,14)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=1; h,r-ind=1,1
```

22.33 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,8,22)); lvl=0; h,r-ind=22,242
  [5,3]((1,3,5),(2,5,10),(5,13,34),(2,5,13),(1,3,7)); lvl=1; h,r-ind=1,1
    [5,3]((1,3,5),(1,3,6),(3,8,18),(2,5,10),(4,10,23)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,11),(6,16,35),(4,10,23),(3,8,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,13,29),(6,16,35),(3,8,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,23),(5,13,29),(3,8,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(5,13,29),(6,16,35)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,23),(2,5,11),(5,13,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(6,16,35),(3,8,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,6),(2,5,11),(4,11,22),(6,16,35)); lvl=3; h,r-ind=1,1
        [3,3]((3,8,17),(2,5,11),(4,11,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(3,8,17),(4,11,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(6,16,35),(3,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((6,16,35),(3,8,17),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(1,3,5),(4,11,22)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,5),(2,5,10),(2,5,11),(4,11,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,16),(2,5,10),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,22),(3,8,16),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,11,22),(3,8,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(3,8,16),(2,5,10)); lvl=4; h,r-ind=1,1
    [4,3]((3,8,18),(2,5,13),(3,8,20),(4,10,23)); lvl=2; h,r-ind=1,1
      [4,3]((3,8,19),(2,5,12),(2,5,13),(3,8,20)); lvl=3; h,r-ind=1,1
        [3,3]((5,13,32),(2,5,13),(2,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,19),(5,13,32),(2,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,20),(3,8,19),(5,13,32)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,20),(5,13,32),(2,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,18),(3,8,19),(2,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,18),(4,10,23),(2,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,13),(5,13,34),(3,8,20)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(5,13,34),(3,8,20)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,6),(1,3,7),(3,8,18),(3,8,20)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,7),(5,14,32),(3,8,19),(3,8,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,11,26),(5,14,32),(3,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,20),(4,11,26),(3,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(3,8,20),(4,11,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(4,11,26),(5,14,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(1,3,7),(5,14,32)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,6),(5,14,32),(3,8,18),(3,8,19)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,11,25),(3,8,18),(3,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((5,14,32),(4,11,25),(3,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(5,14,32),(4,11,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(4,11,25),(3,8,18)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,5),(1,3,7)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=1; h,r-ind=1,1
  [5,3]((1,3,5),(1,3,4),(1,2,3),(2,5,10),(1,2,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,12),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,12),(4,10,17),(2,5,9),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,9),(4,10,17),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(4,10,17),(5,12,21)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,2,4),(3,7,12),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(5,12,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,10),(2,5,9),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,10),(2,5,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(4,10,17),(3,8,13),(2,5,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,13),(4,10,17),(5,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(4,10,17),(5,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,9),(5,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(3,8,13),(5,13,22)); lvl=3; h,r-ind=1,1
    [5,3]((1,3,4),(3,7,12),(4,10,17),(3,8,13),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,13),(1,3,4),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,17),(3,8,13),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(4,10,17),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,12),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,4),(3,8,13)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(1,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,9),(1,1,1),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,2),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(3,7,9),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,4),(3,7,9),(1,2,2)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,5,6),(1,3,4),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(2,5,6),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,8,9),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,8,9),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
  [4,3]((3,8,22),(5,13,34),(7,18,48),(1,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,21),(7,18,48),(5,13,34)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(3,8,21),(5,13,34)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,21),(5,13,35),(7,18,48)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,22),(3,8,21),(5,13,35)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(3,8,22),(3,8,21)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,8,22),(1,3,7)); lvl=1; h,r-ind=1,1
  [5,3]((5,13,34),(7,18,48),(6,15,40),(7,17,45),(2,5,13)); lvl=1; h,r-ind=1,1
    [3,3]((6,15,40),(8,20,53),(7,17,45)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,13),(8,20,53),(7,17,45)); lvl=2; h,r-ind=1,1
    [4,3]((6,15,40),(8,20,53),(15,38,101),(17,43,114)); lvl=2; h,r-ind=1,1
      [3,3]((23,58,154),(17,43,114),(8,20,53)); lvl=3; h,r-ind=1,1
      [3,3]((6,15,40),(23,58,154),(8,20,53)); lvl=3; h,r-ind=1,1
      [3,3]((15,38,101),(6,15,40),(23,58,154)); lvl=3; h,r-ind=1,1
      [3,3]((15,38,101),(23,58,154),(17,43,114)); lvl=3; h,r-ind=1,1
    [4,3]((11,28,74),(2,5,13),(8,20,53),(17,43,114)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,13),(8,20,53),(19,48,127)); lvl=3; h,r-ind=1,1
      [3,3]((17,43,114),(8,20,53),(19,48,127)); lvl=3; h,r-ind=1,1
      [3,3]((11,28,74),(2,5,13),(19,48,127)); lvl=3; h,r-ind=1,1
      [3,3]((17,43,114),(11,28,74),(19,48,127)); lvl=3; h,r-ind=1,1
    [3,3]((5,13,34),(11,28,74),(2,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((7,18,48),(5,13,34),(11,28,74)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((7,18,48),(6,15,40),(15,38,101)); lvl=2; h,r-ind=1,1
    [4,3]((7,18,48),(11,28,74),(15,38,101),(17,43,114)); lvl=2; h,r-ind=1,1
      [4,3]((11,28,74),(9,23,61),(17,43,114),(41,104,276)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((26,66,175),(9,23,61),(41,104,276)); lvl=4; h,r-ind=1,1
        [3,3]((17,43,114),(26,66,175),(41,104,276)); lvl=4; h,r-ind=1,1
        [3,3]((11,28,74),(26,66,175),(9,23,61)); lvl=4; h,r-ind=1,1
        [3,3]((17,43,114),(11,28,74),(26,66,175)); lvl=4; h,r-ind=1,1
      [3,3]((15,38,101),(17,43,114),(41,104,276)); lvl=3; h,r-ind=1,1
      [4,3]((7,18,48),(15,38,101),(9,23,61),(41,104,276)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((24,61,162),(15,38,101),(41,104,276)); lvl=4; h,r-ind=1,1
        [3,3]((24,61,162),(9,23,61),(41,104,276)); lvl=4; h,r-ind=1,1
        [3,3]((7,18,48),(24,61,162),(9,23,61)); lvl=4; h,r-ind=1,1
        [3,3]((7,18,48),(24,61,162),(15,38,101)); lvl=4; h,r-ind=1,1
  [6,3]((3,5,13),(3,4,10),(2,5,10),(1,2,4),(7,17,45),(2,5,13)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,4),(2,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(4,10,23),(2,5,10)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,5),(2,5,13),(4,10,23)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((7,17,45),(1,2,5),(2,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((7,17,45),(1,2,5),(5,11,29)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,5,13),(1,2,5),(5,11,29)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,5),(1,2,4),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,10),(1,2,5),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,13),(3,4,10),(1,2,5)); lvl=2; h,r-ind=1,1
```

```
[4,3]((1,0,0),(2,3,8),(3,5,13),(3,4,10)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,8),(7,10,26),(3,5,13)); lvl=2; h,r-ind=1,1
  [4,3]((2,2,5),(3,4,10),(7,10,26),(3,5,13)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((5,7,18),(3,5,13),(3,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,5),(5,7,18),(3,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((7,10,26),(5,7,18),(3,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,5),(7,10,26),(5,7,18)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(2,2,5),(2,3,8),(7,10,26)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((4,5,13),(2,2,5),(7,10,26)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,13),(2,3,8),(7,10,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(4,5,13),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(4,5,13),(2,2,5)); lvl=3; h,r-ind=1,1
[4,3]((1,0,0),(1,2,3),(3,4,10),(1,2,4)); lvl=1; h,r-ind=2,2
  [3,3]((1,2,3),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,7),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
  [4,3]((2,2,5),(3,4,10),(2,3,7),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,10),(4,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,5),(3,4,10),(4,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,5),(4,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,7),(4,5,12)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,5),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
[4,3]((3,8,22),(4,10,27),(7,18,48),(6,15,40)); lvl=1; h,r-ind=1,1
  [3,3]((6,15,40),(4,10,27),(15,38,102)); lvl=2; h,r-ind=1,1
  [4,3]((3,8,22),(5,13,35),(4,10,27),(15,38,102)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((5,13,35),(9,23,62),(15,38,102)); lvl=3; h,r-ind=1,1
    [3,3]((4,10,27),(9,23,62),(15,38,102)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,22),(5,13,35),(9,23,62)); lvl=3; h,r-ind=1,1
    [3,3]((4,10,27),(3,8,22),(9,23,62)); lvl=3; h,r-ind=1,1
  [4,3]((7,18,48),(5,13,35),(6,15,40),(15,38,102)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((5,13,35),(11,28,75),(15,38,102)); lvl=3; h,r-ind=1,1
    [3,3]((6,15,40),(11,28,75),(15,38,102)); lvl=3; h,r-ind=1,1
    [3,3]((7,18,48),(6,15,40),(11,28,75)); lvl=3; h,r-ind=1,1
    [3,3]((7,18,48),(5,13,35),(11,28,75)); lvl=3; h,r-ind=1,1
[6,3]((2,4,11),(2,3,8),(3,5,13),(4,10,27),(6,15,40),(7,17,45)); lvl=1; h,r-ind=1,1
  [4,3]((3,6,16),(5,11,29),(4,9,24),(3,5,13)); lvl=2; h,r-ind=1,1
    [4,3]((11,23,61),(4,8,21),(5,11,29),(4,9,24)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((8,17,45),(4,8,21),(5,11,29)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,24),(8,17,45),(5,11,29)); lvl=4; h,r-ind=1,1
      [3,3]((11,23,61),(8,17,45),(4,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,24),(11,23,61),(8,17,45)); lvl=4; h,r-ind=1,1
    [3,3]((3,6,16),(11,23,61),(4,9,24)); lvl=3; h,r-ind=1,1
    [4,3]((3,6,16),(11,23,61),(4,8,21),(3,5,13)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((7,14,37),(11,23,61),(4,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,13),(7,14,37),(4,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,16),(3,5,13),(7,14,37)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,16),(7,14,37),(11,23,61)); lvl=4; h,r-ind=1,1
  [3,3]((2,3,8),(3,6,16),(3,5,13)); lvl=2; h,r-ind=1,1
  [4,3]((2,4,11),(3,7,19),(3,6,16),(4,9,24)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,24),(3,7,19),(6,13,35)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,11),(3,7,19),(6,13,35)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,16),(2,4,11),(6,13,35)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,16),(4,9,24),(6,13,35)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,8),(2,4,11),(3,6,16)); lvl=2; h,r-ind=1,1
  [4,3]((7,17,45),(5,11,29),(5,12,32),(4,9,24)); lvl=2; h,r-ind=1,1
    [4,3]((6,14,37),(15,35,93),(5,11,29),(4,9,24)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,9,24),(10,23,61),(15,35,93)); lvl=4; h,r-ind=1,1
      [3,3]((6,14,37),(10,23,61),(15,35,93)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,29),(4,9,24),(10,23,61)); lvl=4; h,r-ind=1,1
      [3,3]((6,14,37),(5,11,29),(10,23,61)); lvl=4; h,r-ind=1,1
    [3,3]((5,12,32),(15,35,93),(4,9,24)); lvl=3; h,r-ind=1,1
    [4,3]((7,17,45),(6,14,37),(5,12,32),(15,35,93)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((6,14,37),(15,35,93),(11,26,69)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,32),(15,35,93),(11,26,69)); lvl=4; h,r-ind=1,1
      [3,3]((7,17,45),(6,14,37),(11,26,69)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,32),(7,17,45),(11,26,69)); lvl=4; h,r-ind=1,1
  [4,3]((3,7,19),(4,10,27),(5,12,32),(4,9,24)); lvl=2; h,r-ind=1,1
    [3,3]((8,19,51),(5,12,32),(4,10,27)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,19),(8,19,51),(4,10,27)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,24),(3,7,19),(8,19,51)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,24),(8,19,51),(5,12,32)); lvl=3; h,r-ind=1,1
  [3,3]((6,15,40),(7,17,45),(5,12,32)); lvl=2; h,r-ind=1,1
  [3,3]((4,10,27),(6,15,40),(5,12,32)); lvl=2; h,r-ind=1,1
[3,3]((3,8,22),(2,4,11),(4,10,27)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((1,0,0),(2,4,11),(2,3,8)); lvl=1; h,r-ind=1,1
```

22.34 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,9,22)); lvl=0; h,r-ind=22,484
  [5,3]((1,3,7),(2,3,7),(5,8,19),(2,4,9),(2,5,12)); lvl=1; h,r-ind=1,1
    [3,3]((6,11,26),(2,5,12),(5,8,19)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,3,7),(6,11,26),(5,8,19)); lvl=2; h,r-ind=1,1
    [4,3]((6,11,26),(5,11,26),(7,14,33),(2,5,12)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,26),(7,14,33),(16,33,78)); lvl=3; h,r-ind=1,1
      [4,3]((4,8,19),(6,11,26),(7,14,33),(16,33,78)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((11,22,52),(6,11,26),(7,14,33)); lvl=4; h,r-ind=1,1
        [3,3]((16,33,78),(11,22,52),(7,14,33)); lvl=4; h,r-ind=1,1
        [3,3]((4,8,19),(16,33,78),(11,22,52)); lvl=4; h,r-ind=1,1
        [3,3]((4,8,19),(11,22,52),(6,11,26)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,12),(4,8,19),(5,11,26),(16,33,78)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,8,19),(16,33,78),(9,19,45)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,26),(16,33,78),(9,19,45)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(5,11,26),(9,19,45)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(4,8,19),(9,19,45)); lvl=4; h,r-ind=1,1
    [3,3]((5,11,26),(1,3,7),(2,5,12)); lvl=2; h,r-ind=1,1
    [4,3]((5,11,26),(7,14,33),(3,6,14),(1,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((8,17,40),(3,6,14),(7,14,33)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,26),(8,17,40),(7,14,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(8,17,40),(3,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,26),(1,3,7),(8,17,40)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,14),(2,4,9),(1,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,7),(6,11,26),(7,14,33),(3,6,14)); lvl=2; h,r-ind=1,1
      [3,3]((9,17,40),(7,14,33),(6,11,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(9,17,40),(6,11,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,14),(9,17,40),(7,14,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(3,6,14),(9,17,40)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(3,6,14),(2,4,9)); lvl=2; h,r-ind=1,1
  [3,3]((3,9,22),(1,3,7),(2,5,12)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,9,22),(1,3,7)); lvl=1; h,r-ind=1,1
  [4,3]((3,9,22),(1,0,0),(5,8,19),(2,5,12)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,12),(5,8,19),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,12),(6,12,29),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,17),(6,12,29),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,22),(3,7,17),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,12),(2,5,12),(5,8,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,12),(6,12,29),(2,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,17),(6,12,29),(2,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,22),(3,7,17),(2,5,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,7),(5,8,19)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,7),(2,5,10),(2,4,9),(1,2,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,11),(1,2,4),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(2,5,11),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,11),(2,5,10),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(2,5,11),(2,5,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,7),(1,3,5),(2,5,10)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,3,7),(1,3,5)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,3,5),(2,5,10),(1,3,4),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,12),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,9),(3,7,12),(4,10,17),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,12),(4,10,17),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(4,10,17),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,12),(5,12,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,10),(2,5,9),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,10),(2,5,9)); lvl=2; h,r-ind=1,1
    [5,3]((3,7,12),(4,10,17),(3,8,13),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,13),(4,10,17),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(4,10,17),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(1,2,3),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,13),(1,3,4),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(2,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,5),(2,5,9),(4,10,17),(3,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,9),(4,10,17),(5,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,13),(4,10,17),(5,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,9),(5,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,13),(1,3,5),(5,13,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(3,8,13),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(1,0,0),(1,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,9),(1,1,1),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,2),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(3,7,9),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,4),(3,7,9),(1,2,2)); lvl=2; h,r-ind=1,3; alert-r-inc
```

```
      [3,3]((2,5,6),(1,3,4),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(2,5,6),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,8,9),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,8,9),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,7),(2,4,9),(1,2,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,7),(2,4,9),(5,8,18)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(1,1,2),(2,4,9),(5,8,18)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,2),(3,5,11),(5,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(3,5,11),(5,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,9),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,1,2),(3,5,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,2),(2,3,7),(5,8,18)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,2),(3,4,9),(5,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(3,4,9),(5,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,3,7),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,2),(3,4,9)); lvl=3; h,r-ind=1,1
```

22.35 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,10,22)); lvl=0; h,r-ind=22,242
  [4,3]((2,6,7),(1,4,4),(1,3,4),(2,7,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,8),(1,4,4),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,8),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,7),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(2,7,8),(1,4,4)); lvl=2; h,r-ind=1,1
  [6,3]((2,7,14),(3,10,21),(3,8,17),(1,2,4),(1,3,4),(2,7,9)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,6),(3,8,17),(3,9,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,21),(1,3,6),(3,9,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,21),(2,7,14),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(1,2,4),(3,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(1,2,4),(2,6,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,14),(4,14,23),(1,3,6),(2,6,11)); lvl=2; h,r-ind=1,1
      [5,3]((2,7,12),(3,10,17),(5,16,29),(9,29,53),(3,10,18)); lvl=3; h,r-ind=1,1
        [5,3]((2,7,12),(12,40,71),(7,23,41),(4,13,23),(3,10,17)); lvl=4; h,r-ind=1,1
          [3,3]((9,30,53),(7,23,41),(12,40,71)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,12),(9,30,53),(12,40,71)); lvl=5; h,r-ind=1,1
          [4,3]((9,30,53),(15,50,88),(13,43,76),(7,23,41)); lvl=5; h,r-ind=1,1
            [3,3]((22,73,129),(13,43,76),(15,50,88)); lvl=6; h,r-ind=1,1
            [3,3]((9,30,53),(22,73,129),(15,50,88)); lvl=6; h,r-ind=1,1
            [3,3]((7,23,41),(9,30,53),(22,73,129)); lvl=6; h,r-ind=1,1
            [3,3]((7,23,41),(22,73,129),(13,43,76)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,12),(9,30,53),(15,50,88)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,12),(15,50,88),(6,20,35)); lvl=5; h,r-ind=1,1
          [3,3]((13,43,76),(7,23,41),(4,13,23)); lvl=5; h,r-ind=1,1
          [4,3]((15,50,88),(6,20,35),(13,43,76),(4,13,23)); lvl=5; h,r-ind=1,1
            [3,3]((4,13,23),(6,20,35),(19,63,111)); lvl=6; h,r-ind=1,1
            [3,3]((15,50,88),(6,20,35),(19,63,111)); lvl=6; h,r-ind=1,1
            [3,3]((13,43,76),(15,50,88),(19,63,111)); lvl=6; h,r-ind=1,1
            [3,3]((13,43,76),(4,13,23),(19,63,111)); lvl=6; h,r-ind=1,1
          [3,3]((3,10,17),(6,20,35),(4,13,23)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,12),(3,10,17),(6,20,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,12),(12,40,71),(3,10,18)); lvl=4; h,r-ind=1,1
        [4,3]((7,23,41),(8,26,47),(5,16,29),(4,13,23)); lvl=4; h,r-ind=1,1
          [3,3]((8,26,47),(5,16,29),(12,39,70)); lvl=5; h,r-ind=1,1
          [3,3]((4,13,23),(5,16,29),(12,39,70)); lvl=5; h,r-ind=1,1
          [3,3]((7,23,41),(4,13,23),(12,39,70)); lvl=5; h,r-ind=1,1
          [3,3]((7,23,41),(8,26,47),(12,39,70)); lvl=5; h,r-ind=1,1
        [3,3]((8,26,47),(5,16,29),(9,29,53)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,18),(8,26,47),(9,29,53)); lvl=4; h,r-ind=1,1
        [4,3]((12,40,71),(7,23,41),(3,10,18),(8,26,47)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((10,33,59),(8,26,47),(7,23,41)); lvl=5; h,r-ind=1,1
          [3,3]((12,40,71),(10,33,59),(7,23,41)); lvl=5; h,r-ind=1,1
          [3,3]((10,33,59),(3,10,18),(8,26,47)); lvl=5; h,r-ind=1,1
          [3,3]((12,40,71),(10,33,59),(3,10,18)); lvl=5; h,r-ind=1,1
      [5,3]((2,7,14),(4,14,25),(1,3,6),(9,29,53),(3,10,18)); lvl=3; h,r-ind=1,1
        [3,3]((4,13,24),(1,3,6),(9,29,53)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,18),(4,13,24),(9,29,53)); lvl=4; h,r-ind=1,1
        [4,3]((3,10,18),(4,13,24),(10,33,61),(9,30,55)); lvl=4; h,r-ind=1,1
          [3,3]((13,43,79),(10,33,61),(4,13,24)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,18),(13,43,79),(4,13,24)); lvl=5; h,r-ind=1,1
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      [3,3]((9,30,55),(13,43,79),(10,33,61)); lvl=5; h,r-ind=1,1
      [3,3]((3,10,18),(9,30,55),(13,43,79)); lvl=5; h,r-ind=1,1
    [4,3]((4,14,25),(5,17,31),(3,10,18),(9,30,55)); lvl=4; h,r-ind=1,1
      [3,3]((8,27,49),(9,30,55),(3,10,18)); lvl=5; h,r-ind=1,1
      [3,3]((4,14,25),(8,27,49),(3,10,18)); lvl=5; h,r-ind=1,1
      [3,3]((8,27,49),(5,17,31),(9,30,55)); lvl=5; h,r-ind=1,1
      [3,3]((4,14,25),(8,27,49),(5,17,31)); lvl=5; h,r-ind=1,1
    [4,3]((4,13,24),(10,33,61),(7,23,43),(1,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((7,23,43),(10,33,61),(11,36,67)); lvl=5; h,r-ind=1,1
      [3,3]((4,13,24),(10,33,61),(11,36,67)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,6),(4,13,24),(11,36,67)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,6),(7,23,43),(11,36,67)); lvl=5; h,r-ind=1,1
    [4,3]((2,7,14),(2,7,13),(7,23,43),(1,3,6)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((3,10,19),(2,7,13),(7,23,43)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,6),(3,10,19),(7,23,43)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,14),(3,10,19),(2,7,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,14),(3,10,19)); lvl=5; h,r-ind=1,1
    [5,3]((2,7,13),(5,17,31),(10,33,61),(9,30,55),(7,23,43)); lvl=4; h,r-ind=1,1
      [3,3]((6,20,37),(9,30,55),(5,17,31)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,13),(6,20,37),(5,17,31)); lvl=5; h,r-ind=1,1
      [3,3]((6,20,37),(9,30,55),(10,33,61)); lvl=5; h,r-ind=1,1
      [3,3]((6,20,37),(7,23,43),(10,33,61)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,13),(6,20,37),(7,23,43)); lvl=5; h,r-ind=1,1
    [3,3]((4,14,25),(2,7,13),(5,17,31)); lvl=4; h,r-ind=1,1
  [3,3]((4,14,25),(2,7,12),(3,10,18)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,12),(4,14,23),(3,10,17)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,6),(2,6,11),(5,16,29),(9,29,53)); lvl=3; h,r-ind=1,1
    [3,3]((6,19,35),(5,16,29),(2,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(6,19,35),(2,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((6,19,35),(9,29,53),(5,16,29)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(6,19,35),(9,29,53)); lvl=4; h,r-ind=1,1
  [3,3]((3,10,17),(2,6,11),(5,16,29)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,2,4),(1,3,5),(2,6,11)); lvl=2; h,r-ind=1,1
[4,3]((2,7,9),(4,14,23),(1,3,5),(2,6,11)); lvl=2; h,r-ind=1,1
  [3,3]((5,16,27),(2,6,11),(3,10,17)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((3,10,16),(2,7,11),(9,29,48),(5,16,27),(3,10,17)); lvl=3; h,r-ind=1,1
    [5,3]((12,40,65),(7,23,38),(2,7,11),(3,10,17),(4,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((6,20,33),(3,10,17),(4,13,22)); lvl=5; h,r-ind=1,1
      [4,3]((13,43,71),(15,50,82),(6,20,33),(4,13,22)); lvl=5; h,r-ind=1,1
        [3,3]((15,50,82),(6,20,33),(19,63,104)); lvl=6; h,r-ind=1,1
        [3,3]((4,13,22),(6,20,33),(19,63,104)); lvl=6; h,r-ind=1,1
        [3,3]((13,43,71),(15,50,82),(19,63,104)); lvl=6; h,r-ind=1,1
        [3,3]((4,13,22),(13,43,71),(19,63,104)); lvl=6; h,r-ind=1,1
      [3,3]((7,23,38),(13,43,71),(4,13,22)); lvl=5; h,r-ind=1,1
      [4,3]((7,23,38),(9,30,49),(13,43,71),(15,50,82)); lvl=5; h,r-ind=1,1
        [3,3]((9,30,49),(15,50,82),(22,73,120)); lvl=6; h,r-ind=1,1
        [3,3]((13,43,71),(15,50,82),(22,73,120)); lvl=6; h,r-ind=1,1
        [3,3]((7,23,38),(9,30,49),(22,73,120)); lvl=6; h,r-ind=1,1
        [3,3]((13,43,71),(7,23,38),(22,73,120)); lvl=6; h,r-ind=1,1
      [3,3]((12,40,65),(7,23,38),(9,30,49)); lvl=5; h,r-ind=1,1
      [3,3]((6,20,33),(2,7,11),(3,10,17)); lvl=5; h,r-ind=1,1
      [3,3]((15,50,82),(6,20,33),(2,7,11)); lvl=5; h,r-ind=1,1
      [3,3]((9,30,49),(15,50,82),(2,7,11)); lvl=5; h,r-ind=1,1
      [3,3]((12,40,65),(9,30,49),(2,7,11)); lvl=5; h,r-ind=1,1
    [4,3]((8,26,43),(7,23,38),(5,16,27),(4,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((12,39,65),(4,13,22),(7,23,38)); lvl=5; h,r-ind=1,1
      [3,3]((8,26,43),(12,39,65),(7,23,38)); lvl=5; h,r-ind=1,1
      [3,3]((5,16,27),(8,26,43),(12,39,65)); lvl=5; h,r-ind=1,1
      [3,3]((5,16,27),(12,39,65),(4,13,22)); lvl=5; h,r-ind=1,1
    [3,3]((8,26,43),(9,29,48),(5,16,27)); lvl=4; h,r-ind=1,1
    [4,3]((3,10,16),(12,40,65),(8,26,43),(7,23,38)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((10,33,54),(7,23,38),(12,40,65)); lvl=5; h,r-ind=1,1
      [3,3]((3,10,16),(10,33,54),(12,40,65)); lvl=5; h,r-ind=1,1
      [3,3]((10,33,54),(8,26,43),(7,23,38)); lvl=5; h,r-ind=1,1
      [3,3]((3,10,16),(10,33,54),(8,26,43)); lvl=5; h,r-ind=1,1
    [3,3]((3,10,16),(8,26,43),(9,29,48)); lvl=4; h,r-ind=1,1
    [3,3]((3,10,16),(12,40,65),(2,7,11)); lvl=4; h,r-ind=1,1
  [3,3]((4,14,23),(2,7,11),(3,10,17)); lvl=3; h,r-ind=1,1
  [3,3]((4,14,21),(3,10,16),(2,7,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,5),(9,29,48),(5,16,27),(2,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((9,29,48),(6,19,32),(5,16,27)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,11),(6,19,32),(5,16,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(9,29,48),(6,19,32)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,11),(1,3,5),(6,19,32)); lvl=4; h,r-ind=1,1
  [5,3]((2,7,9),(4,14,21),(3,10,16),(1,3,5),(9,29,48)); lvl=3; h,r-ind=1,1
    [3,3]((4,13,21),(3,10,16),(9,29,48)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(4,13,21),(9,29,48)); lvl=4; h,r-ind=1,1
    [4,3]((10,33,52),(9,30,47),(4,13,21),(3,10,16)); lvl=4; h,r-ind=1,1
      [3,3]((13,43,68),(3,10,16),(9,30,47)); lvl=5; h,r-ind=1,1
      [3,3]((10,33,52),(13,43,68),(9,30,47)); lvl=5; h,r-ind=1,1
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          [3,3]((4,13,21),(13,43,68),(3,10,16)); lvl=5; h,r-ind=1,1
          [3,3]((10,33,52),(4,13,21),(13,43,68)); lvl=5; h,r-ind=1,1
        [4,3]((5,17,26),(4,14,21),(9,30,47),(3,10,16)); lvl=4; h,r-ind=1,1
          [3,3]((9,30,47),(3,10,16),(8,27,42)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,21),(3,10,16),(8,27,42)); lvl=5; h,r-ind=1,1
          [3,3]((5,17,26),(9,30,47),(8,27,42)); lvl=5; h,r-ind=1,1
          [3,3]((5,17,26),(4,14,21),(8,27,42)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,10),(5,17,26),(4,14,21)); lvl=4; h,r-ind=1,1
        [4,3]((7,23,36),(1,3,5),(10,33,52),(4,13,21)); lvl=4; h,r-ind=1,1
          [3,3]((11,36,57),(4,13,21),(1,3,5)); lvl=5; h,r-ind=1,1
          [3,3]((7,23,36),(11,36,57),(1,3,5)); lvl=5; h,r-ind=1,1
          [3,3]((10,33,52),(11,36,57),(4,13,21)); lvl=5; h,r-ind=1,1
          [3,3]((7,23,36),(10,33,52),(11,36,57)); lvl=5; h,r-ind=1,1
        [4,3]((2,7,9),(2,7,10),(7,23,36),(1,3,5)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((3,10,15),(7,23,36),(2,7,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,9),(3,10,15),(2,7,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,5),(2,7,9),(3,10,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,5),(3,10,15),(7,23,36)); lvl=5; h,r-ind=1,1
        [5,3]((2,7,10),(5,17,26),(7,23,36),(10,33,52),(9,30,47)); lvl=4; h,r-ind=1,1
          [3,3]((10,33,52),(9,30,47),(6,20,31)); lvl=5; h,r-ind=1,1
          [3,3]((5,17,26),(9,30,47),(6,20,31)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,10),(5,17,26),(6,20,31)); lvl=5; h,r-ind=1,1
          [3,3]((7,23,36),(10,33,52),(6,20,31)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,10),(7,23,36),(6,20,31)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,4),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,9),(1,3,4),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((3,10,22),(2,7,14),(3,10,21)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,10,22),(2,7,14)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,10,22),(3,10,21),(3,8,17)); lvl=1; h,r-ind=6,6; optimized-h
  [4,3]((3,8,17),(1,1,2),(1,2,4),(3,7,15)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,4),(1,1,2),(4,9,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,15),(1,1,2),(4,9,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,17),(1,2,4),(4,9,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,15),(3,8,17),(4,9,19)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,11),(1,0,0),(1,1,2),(3,7,15)); lvl=1; h,r-ind=1,1
    [3,3]((1,0,0),(3,6,13),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,15),(3,6,13),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,11),(3,7,15),(3,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,11),(1,0,0),(3,6,13)); lvl=2; h,r-ind=1,1
  [4,3]((3,10,22),(2,5,11),(3,8,17),(3,7,15)); lvl=1; h,r-ind=1,1
    [3,3]((7,18,39),(3,7,15),(2,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,13),(7,18,39),(2,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,22),(2,6,13),(2,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,13),(7,18,39),(3,8,17),(3,7,15)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,13,28),(3,7,15),(7,18,39)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,13),(5,13,28),(7,18,39)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,17),(5,13,28),(3,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,13),(3,8,17),(5,13,28)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(2,7,14),(1,4,4),(2,7,9)); lvl=1; h,r-ind=1,1
    [4,3]((1,4,5),(2,8,11),(4,14,23),(2,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,11),(4,14,23),(3,11,17)); lvl=3; h,r-ind=1,1
      [5,3]((2,7,11),(3,11,16),(9,34,48),(5,19,27),(3,11,17)); lvl=3; h,r-ind=1,1
        [4,3]((4,15,22),(7,26,38),(5,19,27),(8,30,43)); lvl=4; h,r-ind=1,1
          [3,3]((12,45,65),(8,30,43),(7,26,38)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,22),(12,45,65),(7,26,38)); lvl=5; h,r-ind=1,1
          [3,3]((5,19,27),(12,45,65),(8,30,43)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,22),(5,19,27),(12,45,65)); lvl=5; h,r-ind=1,1
        [3,3]((9,34,48),(5,19,27),(8,30,43)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,16),(9,34,48),(8,30,43)); lvl=4; h,r-ind=1,1
        [4,3]((3,11,16),(7,26,38),(12,44,65),(8,30,43)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((7,26,38),(10,37,54),(12,44,65)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,16),(10,37,54),(12,44,65)); lvl=5; h,r-ind=1,1
          [3,3]((8,30,43),(3,11,16),(10,37,54)); lvl=5; h,r-ind=1,1
          [3,3]((8,30,43),(7,26,38),(10,37,54)); lvl=5; h,r-ind=1,1
        [5,3]((2,7,11),(4,15,22),(3,11,17),(7,26,38),(12,44,65)); lvl=4; h,r-ind=1,1
          [3,3]((6,22,33),(2,7,11),(3,11,17)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,22),(6,22,33),(3,11,17)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,22),(13,48,71),(7,26,38)); lvl=5; h,r-ind=1,1
          [3,3]((15,55,82),(6,22,33),(2,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((15,55,82),(9,33,49),(2,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((9,33,49),(12,44,65),(2,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((7,26,38),(9,33,49),(12,44,65)); lvl=5; h,r-ind=1,1
          [4,3]((13,48,71),(15,55,82),(7,26,38),(9,33,49)); lvl=5; h,r-ind=1,1
            [3,3]((15,55,82),(9,33,49),(22,81,120)); lvl=6; h,r-ind=1,1
            [3,3]((7,26,38),(9,33,49),(22,81,120)); lvl=6; h,r-ind=1,1
            [3,3]((13,48,71),(7,26,38),(22,81,120)); lvl=6; h,r-ind=1,1
            [3,3]((13,48,71),(15,55,82),(22,81,120)); lvl=6; h,r-ind=1,1
          [4,3]((4,15,22),(13,48,71),(15,55,82),(6,22,33)); lvl=5; h,r-ind=1,1
            [3,3]((19,70,104),(15,55,82),(13,48,71)); lvl=6; h,r-ind=1,1
            [3,3]((4,15,22),(19,70,104),(13,48,71)); lvl=6; h,r-ind=1,1
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            [3,3]((6,22,33),(19,70,104),(15,55,82)); lvl=6; h,r-ind=1,1
            [3,3]((4,15,22),(6,22,33),(19,70,104)); lvl=6; h,r-ind=1,1
        [3,3]((3,11,16),(2,7,11),(12,44,65)); lvl=4; h,r-ind=1,1
      [3,3]((5,19,27),(2,8,11),(3,11,17)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,4,5),(9,34,48),(5,19,27),(2,8,11)); lvl=3; h,r-ind=1,1
        [3,3]((6,23,32),(9,34,48),(5,19,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,11),(6,23,32),(5,19,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,8,11),(6,23,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(6,23,32),(9,34,48)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(4,14,21),(3,11,16)); lvl=3; h,r-ind=1,1
      [5,3]((1,4,5),(2,7,9),(4,14,21),(3,11,16),(9,34,48)); lvl=3; h,r-ind=1,1
        [5,3]((5,18,26),(9,33,47),(2,7,10),(7,26,36),(10,37,52)); lvl=4; h,r-ind=1,1
          [3,3]((6,22,31),(7,26,36),(10,37,52)); lvl=5; h,r-ind=1,1
          [3,3]((9,33,47),(6,22,31),(10,37,52)); lvl=5; h,r-ind=1,1
          [3,3]((5,18,26),(9,33,47),(6,22,31)); lvl=5; h,r-ind=1,1
          [3,3]((6,22,31),(2,7,10),(7,26,36)); lvl=5; h,r-ind=1,1
          [3,3]((5,18,26),(6,22,31),(2,7,10)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,5),(4,15,21),(7,26,36),(10,37,52)); lvl=4; h,r-ind=1,1
          [3,3]((4,15,21),(10,37,52),(11,41,57)); lvl=5; h,r-ind=1,1
          [3,3]((7,26,36),(10,37,52),(11,41,57)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(4,15,21),(11,41,57)); lvl=5; h,r-ind=1,1
          [3,3]((7,26,36),(1,4,5),(11,41,57)); lvl=5; h,r-ind=1,1
        [4,3]((4,15,21),(3,11,16),(9,33,47),(10,37,52)); lvl=4; h,r-ind=1,1
          [3,3]((13,48,68),(9,33,47),(3,11,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,21),(13,48,68),(3,11,16)); lvl=5; h,r-ind=1,1
          [3,3]((10,37,52),(4,15,21),(13,48,68)); lvl=5; h,r-ind=1,1
          [3,3]((10,37,52),(13,48,68),(9,33,47)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,21),(9,34,48),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(4,15,21),(9,34,48)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,21),(5,18,26),(2,7,10)); lvl=4; h,r-ind=1,1
        [4,3]((3,11,16),(4,14,21),(5,18,26),(9,33,47)); lvl=4; h,r-ind=1,1
          [3,3]((4,14,21),(5,18,26),(8,29,42)); lvl=5; h,r-ind=1,1
          [3,3]((9,33,47),(5,18,26),(8,29,42)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,16),(9,33,47),(8,29,42)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,16),(4,14,21),(8,29,42)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,5),(2,7,9),(2,7,10),(7,26,36)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,7,10),(2,7,9),(3,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(2,7,9),(3,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((7,26,36),(2,7,10),(3,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(7,26,36),(3,11,15)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,4),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,11),(1,4,7),(2,7,14),(4,14,23)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,12),(4,14,25)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,6),(1,4,7),(2,7,14),(4,14,25)); lvl=3; h,r-ind=1,1
        [4,3]((4,15,26),(1,4,7),(2,7,13),(2,7,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,7,13),(3,11,20),(2,7,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(3,11,20),(2,7,14)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,26),(2,7,13),(3,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(4,15,26),(3,11,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(4,15,26),(2,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,25),(1,4,6),(2,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(4,15,26),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,17),(1,4,6),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,23),(3,11,17),(2,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(3,11,17),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,8,11),(1,4,7)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,4,5),(2,8,11)); lvl=2; h,r-ind=1,1
  [5,3]((1,1,2),(2,2,3),(1,2,4),(2,6,7),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,6,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,3),(2,6,7)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,3),(2,4,5),(1,2,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,2),(2,2,3),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [5,3]((0,1,0),(1,0,0),(2,2,3),(2,6,7),(1,4,4)); lvl=1; h,r-ind=1,1
    [4,3]((2,2,3),(2,4,5),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
      [4,3]((2,4,5),(2,3,4),(1,2,2),(4,6,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,6),(2,3,4),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,5,6),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,2),(4,6,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(2,2,3),(2,3,4),(4,6,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,7),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(4,6,7),(3,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((1,3,3),(2,6,7),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,2),(4,10,11),(2,4,5),(2,5,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,8),(2,5,6),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,7,8),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,7,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,3),(4,10,11),(2,6,7),(2,5,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,9),(4,10,11),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(3,8,9),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(3,8,9),(4,10,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(4,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,4),(1,3,3),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
```

22.36 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,11,22)); lvl=0; h,r-ind=22,44
  [4,3]((1,2,4),(1,4,4),(1,4,7),(3,10,20)); lvl=1; h,r-ind=2,2
    [5,3]((1,3,5),(1,3,4),(2,7,11),(1,4,4),(2,8,11)); lvl=2; h,r-ind=1,1
      [4,3]((2,7,11),(4,14,21),(1,4,5),(2,8,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,14,21),(3,11,16),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,11),(3,11,16),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,11),(2,8,11),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,11),(4,14,21),(3,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,11),(4,14,21)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,5),(3,10,14),(4,14,21),(1,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,10),(1,4,5),(3,10,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,7,10),(3,10,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,14,21),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,21),(2,7,10),(1,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(3,10,14),(1,4,4),(1,4,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,9),(1,4,4),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,14),(2,7,9),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,10,14),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,9),(1,4,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,4),(3,10,14)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,11),(2,7,12),(1,4,7),(2,8,11)); lvl=2; h,r-ind=1,1
      [4,3]((2,7,12),(5,18,29),(1,4,6),(1,4,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,18),(1,4,6),(5,18,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,12),(3,11,18),(5,18,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(3,11,18),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,12),(1,4,7),(3,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(2,7,12),(5,18,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(5,18,29),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(2,8,11),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(2,7,12),(1,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,20),(1,3,6),(1,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,6),(1,3,5),(2,7,11),(2,7,12)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,11),(3,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,12),(2,7,11),(3,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,12),(3,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,3,5),(3,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(1,2,4),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((3,11,22),(1,4,7),(3,10,20)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(3,11,22),(1,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,4),(1,4,4)); lvl=1; h,r-ind=8,4; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,4,4)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((0,1,0),(1,4,4),(1,4,7)); lvl=1; h,r-ind=3,3; optimized-h
```

22.37 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,12,22)); lvl=0; h,r-ind=22,242
  [6,3]((4,15,27),(2,5,9),(3,9,16),(2,6,11),(3,11,20),(4,14,25)); lvl=1; h,r-ind=1,1
    [3,3]((3,10,18),(4,15,27),(4,14,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,16),(3,10,18),(4,14,25)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(3,9,16),(3,10,18)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,18),(3,11,20),(4,15,27)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,18),(3,11,20),(2,6,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(3,10,18),(2,6,11)); lvl=2; h,r-ind=1,1
```

```
  [3,3]((4,15,27),(1,4,7),(4,14,25)); lvl=1; h,r-ind=1,1
  [3,3]((3,12,22),(4,15,27),(1,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((3,12,22),(4,15,27),(3,11,20)); lvl=1; h,r-ind=1,1
  [5,3]((1,4,7),(2,5,8),(3,6,10),(3,9,16),(4,14,25)); lvl=1; h,r-ind=1,1
    [3,3]((3,6,10),(2,5,8),(1,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((3,6,10),(4,11,19),(6,15,26),(1,3,5)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,12),(8,21,36),(4,11,19),(6,15,26)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,11,19),(7,18,31),(8,21,36)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(7,18,31),(8,21,36)); lvl=4; h,r-ind=1,1
        [3,3]((6,15,26),(4,11,19),(7,18,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(6,15,26),(7,18,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(8,21,36),(4,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(1,3,5),(8,21,36)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,10),(3,7,12),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,7),(4,11,19),(4,13,23),(1,3,5)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,5),(6,19,33),(4,12,21),(4,11,19)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,15,26),(6,19,33),(4,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,19),(5,15,26),(4,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,11,19),(5,15,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(5,15,26),(6,19,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(1,3,5),(6,19,33)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,7),(6,19,33),(4,13,23),(4,12,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,16,28),(6,19,33),(4,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,23),(5,16,28),(4,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(4,13,23),(5,16,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(5,16,28),(6,19,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(4,14,25),(4,13,23)); lvl=2; h,r-ind=1,1
    [4,3]((4,11,19),(6,15,26),(4,13,23),(3,9,16)); lvl=2; h,r-ind=1,1
      [4,3]((4,13,23),(4,12,21),(3,8,14),(3,9,16)); lvl=3; h,r-ind=1,1
        [3,3]((3,8,14),(4,12,21),(7,21,37)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,23),(4,12,21),(7,21,37)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,16),(4,13,23),(7,21,37)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,16),(3,8,14),(7,21,37)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,19),(4,12,21),(3,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,19),(6,15,26),(3,8,14)); lvl=3; h,r-ind=1,1
    [3,3]((4,14,25),(4,13,23),(3,9,16)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,7),(1,4,4),(2,5,8)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,4,7),(1,4,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,12,22),(0,1,0),(1,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,5,9),(2,6,11)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,5,9),(3,6,10),(3,9,16)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,7),(2,5,9),(3,9,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,7),(6,15,26),(3,9,16)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,3,5),(3,6,10),(2,4,7),(6,15,26)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,7),(6,15,26),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(7,14,24),(3,7,12)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,5),(7,14,24),(3,6,10),(3,7,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,14,24),(5,10,17),(3,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,10),(5,10,17),(3,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(3,6,10),(5,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(7,14,24),(5,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(2,4,7),(7,14,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,5),(2,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,4,7),(2,5,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,4),(2,5,8),(1,0,0),(3,6,10)); lvl=1; h,r-ind=2,2
    [3,3]((1,2,3),(3,6,10),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,0,0),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,0,0),(1,2,2)); lvl=2; h,r-ind=2,2; optimized-h
    [4,3]((1,3,4),(1,4,4),(1,2,3),(1,2,2)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,3),(3,8,10),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,6),(3,8,10),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,5,6),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,2,2),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,5,6),(3,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,2,3),(3,8,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,4),(1,3,4),(3,8,10),(1,3,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(3,8,10),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(1,3,3),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(1,3,4),(2,6,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,8),(3,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,2,3),(2,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(1,0,0)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((3,12,22),(2,6,11),(3,11,20)); lvl=1; h,r-ind=1,1
```

22.38 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,13,22)); lvl=0; h,r-ind=22,484
  [5,3]((1,4,4),(1,4,6),(1,3,5),(1,2,3),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,6),(1,4,5),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,4),(1,4,5),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,4),(1,3,3),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,4,6),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(1,2,3),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,4,4),(1,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,13,21),(1,4,4),(1,4,6)); lvl=1; h,r-ind=1,1
    [4,3]((1,4,6),(1,4,5),(3,13,18),(6,26,33)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,5),(3,13,17),(5,21,28)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,6),(3,13,18),(3,13,17),(5,21,28)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,17),(3,13,18),(4,17,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(3,13,18),(4,17,23)); lvl=4; h,r-ind=1,1
        [3,3]((5,21,28),(3,13,17),(4,17,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(5,21,28),(4,17,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,6),(5,21,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(6,26,33),(3,13,17)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(3,14,21),(3,13,18),(6,26,33)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc
      [4,3]((3,13,17),(3,14,18),(2,9,13),(3,13,18)); lvl=3; h,r-ind=1,3
        [3,3]((2,9,13),(2,9,12),(3,14,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,17),(2,9,12),(3,14,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,18),(2,9,13),(2,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,17),(3,13,18),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,17),(2,9,11),(3,14,18)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((0,1,0),(2,9,11),(3,14,18)); lvl=3; h,r-ind=3,3; optimized-h
      [3,3]((6,26,33),(3,13,17),(2,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(3,14,18),(2,9,13)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((1,5,7),(3,14,21),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,7),(3,14,18)); lvl=3; h,r-ind=3,3; optimized-h
    [4,3]((0,1,0),(1,4,4),(1,4,5),(6,26,33)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,10),(1,4,4),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,11),(2,9,10),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,11),(6,26,33),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,9,11),(2,9,10)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((0,1,0),(2,9,10),(1,4,4)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((3,13,21),(3,14,21),(1,4,6),(3,13,18)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,4,6),(6,26,39),(2,9,13),(3,13,18)); lvl=3; h,r-ind=1,3
        [3,3]((3,13,19),(2,9,13),(6,26,39)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(3,13,19),(6,26,39)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,18),(3,13,19),(2,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(3,13,18),(3,13,19)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,14),(3,13,21),(1,4,6),(6,26,39)); lvl=3; h,r-ind=1,3
        [3,3]((3,13,21),(3,13,20),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((6,26,39),(3,13,20),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,14),(3,13,21),(3,13,20)); lvl=4; h,r-ind=1,1
        [3,3]((6,26,39),(2,9,14),(3,13,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,14),(6,26,39),(2,9,13)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,9,14),(3,14,21),(2,9,13)); lvl=3; h,r-ind=1,1
  [3,3]((3,13,22),(0,1,0),(3,13,21)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((3,13,21),(4,17,28),(1,4,6),(1,3,5)); lvl=1; h,r-ind=1,2
    [3,3]((2,8,13),(1,3,5),(4,17,28)); lvl=2; h,r-ind=1,1
    [3,3]((3,13,21),(2,8,13),(4,17,28)); lvl=2; h,r-ind=1,1
    [3,3]((3,13,21),(2,8,13),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,13),(1,4,6),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((3,13,22),(4,17,28),(1,3,5)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((3,13,22),(3,13,21),(4,17,28)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,5),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,13,22),(1,0,0),(1,3,5)); lvl=1; h,r-ind=1,1
```

22.39 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,14,22)); lvl=0; h,r-ind=22,242
  [5,3]((1,5,7),(1,4,5),(1,4,4),(2,9,13),(0,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,6),(0,1,0),(1,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((3,14,19),(3,14,18),(1,5,6),(1,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,19,25),(3,14,18),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(4,19,25),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,19),(1,5,7),(4,19,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,19),(4,19,25),(3,14,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,19),(2,9,13),(1,5,7)); lvl=2; h,r-ind=1,1
    [5,3]((1,4,5),(2,9,11),(3,14,19),(3,14,18),(2,9,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,14,18),(2,9,12),(2,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,12),(2,9,11)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((3,14,18),(2,9,12),(3,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,13),(2,9,12),(3,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,13),(2,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,11),(1,5,6),(0,1,0)); lvl=2; h,r-ind=1,1
    [5,3]((4,18,21),(2,9,11),(3,14,18),(2,10,11),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,6),(3,14,17),(3,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,11),(3,14,17),(3,14,18)); lvl=3; h,r-ind=1,1
      [4,3]((4,18,21),(2,9,11),(8,37,44),(5,23,27)); lvl=3; h,r-ind=1,1
        [3,3]((2,9,11),(7,32,38),(8,37,44)); lvl=4; h,r-ind=1,1
        [3,3]((5,23,27),(7,32,38),(8,37,44)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,21),(5,23,27),(7,32,38)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,21),(2,9,11),(7,32,38)); lvl=4; h,r-ind=1,1
      [4,3]((9,42,50),(7,33,39),(1,5,6),(3,14,17)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,6),(7,33,39),(10,47,56)); lvl=4; h,r-ind=1,1
        [3,3]((9,42,50),(7,33,39),(10,47,56)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,17),(9,42,50),(10,47,56)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,17),(1,5,6),(10,47,56)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,11),(8,37,44),(9,42,50),(3,14,17)); lvl=3; h,r-ind=1,1
        [3,3]((9,42,50),(8,37,44),(11,51,61)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,11),(8,37,44),(11,51,61)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,17),(2,9,11),(11,51,61)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,17),(9,42,50),(11,51,61)); lvl=4; h,r-ind=1,1
      [4,3]((2,10,11),(4,19,22),(7,33,39),(1,5,6)); lvl=3; h,r-ind=1,1
        [3,3]((5,24,28),(4,19,22),(7,33,39)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(5,24,28),(7,33,39)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(1,5,6),(5,24,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(5,24,28),(4,19,22)); lvl=4; h,r-ind=1,1
      [6,3]((3,14,16),(8,37,44),(5,23,27),(9,42,50),(4,19,22),(7,33,39)); lvl=3; h,r-ind=1,1
        [3,3]((4,19,22),(6,28,33),(3,14,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,23,27),(6,28,33),(3,14,16)); lvl=4; h,r-ind=1,1
        [3,3]((8,37,44),(5,23,27),(6,28,33)); lvl=4; h,r-ind=1,1
        [3,3]((7,33,39),(4,19,22),(6,28,33)); lvl=4; h,r-ind=1,1
        [3,3]((9,42,50),(7,33,39),(6,28,33)); lvl=4; h,r-ind=1,1
        [3,3]((8,37,44),(9,42,50),(6,28,33)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,11),(3,14,16),(4,19,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,18,21),(3,14,16),(5,23,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(3,13,15),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(3,13,15),(4,18,21),(2,9,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,13,15),(4,18,21),(5,22,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,11),(4,18,21),(5,22,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,13,15),(5,22,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,11),(1,4,5),(5,22,26)); lvl=3; h,r-ind=1,1
    [5,3]((3,13,15),(4,18,21),(2,10,11),(0,1,0),(1,4,4)); lvl=2; h,r-ind=1,1
      [4,3]((3,14,15),(4,18,21),(3,14,16),(2,9,10)); lvl=3; h,r-ind=1,1
        [3,3]((5,23,26),(3,14,16),(4,18,21)); lvl=4; h,r-ind=1,1
        [3,3]((5,23,26),(2,9,10),(4,18,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,15),(5,23,26),(2,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,15),(5,23,26),(3,14,16)); lvl=4; h,r-ind=1,1
      [4,3]((3,14,15),(1,5,5),(2,10,11),(3,14,16)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,5),(2,10,11),(4,19,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,16),(2,10,11),(4,19,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,15),(1,5,5),(4,19,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,16),(3,14,15),(4,19,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(2,10,11),(0,1,0)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,4,4),(0,1,0)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,15),(4,18,21),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,15),(1,4,4),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,15),(1,4,4),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,15),(1,5,5),(1,4,4)); lvl=3; h,r-ind=1,1
  [3,3]((3,14,22),(1,5,7),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(1,4,4),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,3),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,2,3),(2,6,9),(3,11,17),(4,15,23)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,9),(4,15,23),(5,17,26)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,17),(4,15,23),(5,17,26)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,11,17),(5,17,26)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,6,9),(5,17,26)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,7,11),(1,2,3),(3,11,17)); lvl=1; h,r-ind=1,1
    [3,3]((3,9,14),(2,7,11),(3,11,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,14),(1,2,3),(3,11,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,9,14),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,9,14),(2,7,11)); lvl=2; h,r-ind=1,1
  [5,3]((2,3,4),(1,3,4),(2,5,6),(1,2,3),(2,6,9)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,6),(3,7,9),(5,12,16),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,9),(5,12,16),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,12,16),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,7,9),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,6),(4,10,13)); lvl=3; h,r-ind=1,1
    [4,3]((6,14,19),(2,5,7),(5,12,16),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((7,17,23),(1,3,4),(2,5,7)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((6,14,19),(7,17,23),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,16),(7,17,23),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,19),(5,12,16),(7,17,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(2,5,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,6,9),(2,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(5,11,15),(6,14,19),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,15),(6,14,19),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(6,14,19),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,15),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(1,2,3),(7,16,22)); lvl=3; h,r-ind=1,1
    [6,3]((2,4,5),(3,6,8),(5,11,15),(6,14,19),(3,7,9),(5,12,16)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,12),(5,11,15),(3,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,9,12),(3,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,7,9),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,12),(6,14,19),(5,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,12),(6,14,19),(5,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(4,9,12),(5,12,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,4,5),(3,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(3,6,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(1,2,3),(3,6,8),(5,11,15)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,15),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,8),(5,11,15),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,6,8),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(1,2,3),(4,8,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [5,3]((1,3,3),(1,4,5),(1,4,4),(1,3,4),(2,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,3),(1,4,4),(3,10,11)); lvl=2; h,r-ind=1,1
    [5,3]((1,4,5),(3,10,12),(4,13,15),(1,4,4),(3,10,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,8),(4,13,15),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,7,8),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,4),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(2,7,8),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,10,12),(2,7,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(2,6,7),(3,10,12),(4,13,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,6,7),(4,13,15),(5,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(4,13,15),(5,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,10,12),(5,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,7),(5,16,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(1,3,4),(3,10,12)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,7),(4,13,15),(1,3,3),(3,10,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,11),(4,13,15),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(4,13,15),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,6,7),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,10,11),(5,16,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,6,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,6),(2,6,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,4),(1,3,3),(2,5,6)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,3),(2,3,3),(2,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,11,13),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(5,11,13),(2,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(1,3,3),(2,5,6),(5,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,3),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,3),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(1,2,2),(3,7,8)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(2,3,4),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(2,4,5),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,4,5),(5,8,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,3,4),(1,1,1),(5,8,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(2,3,4),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(2,4,5)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,7),(3,14,21),(2,9,13),(4,18,27)); lvl=1; h,r-ind=1,1
    [3,3]((2,9,13),(4,18,27),(5,23,34)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,21),(4,18,27),(5,23,34)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,7),(3,14,21),(5,23,34)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,13),(5,23,34)); lvl=2; h,r-ind=1,1
  [3,3]((3,14,22),(1,5,7),(3,14,21)); lvl=1; h,r-ind=1,1
  [4,3]((2,9,14),(3,13,20),(3,14,21),(4,18,27)); lvl=1; h,r-ind=1,1
    [3,3]((4,18,27),(3,13,20),(6,27,41)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,14),(3,13,20),(6,27,41)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,21),(2,9,14),(6,27,41)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,21),(4,18,27),(6,27,41)); lvl=2; h,r-ind=1,1
  [3,3]((3,14,22),(2,9,14),(3,14,21)); lvl=1; h,r-ind=1,1
  [4,3]((3,11,17),(4,15,23),(2,9,14),(3,13,20)); lvl=1; h,r-ind=1,1
    [3,3]((4,15,23),(3,13,20),(6,24,37)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,14),(3,13,20),(6,24,37)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((3,11,17),(4,15,23),(6,24,37)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,14),(3,11,17),(6,24,37)); lvl=2; h,r-ind=1,1
  [4,3]((3,14,22),(2,7,11),(3,11,17),(2,9,14)); lvl=1; h,r-ind=1,1
    [3,3]((4,16,25),(3,11,17),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,22),(4,16,25),(2,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,16,25),(2,9,14),(3,11,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,22),(4,16,25),(2,9,14)); lvl=2; h,r-ind=1,1
  [7,3]((1,4,5),(1,3,4),(2,6,9),(4,15,23),(3,13,20),(2,9,13),(4,18,27)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,6),(4,15,23),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(1,3,4),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,6),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,6),(2,9,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(3,13,20),(4,15,23)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(3,13,20),(4,18,27)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(2,9,13),(4,18,27)); lvl=2; h,r-ind=1,1
```

22.40 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,17,22)); lvl=0; h,r-ind=22,484
  [5,3]((7,35,45),(1,4,5),(3,15,19),(3,11,14),(3,14,18)); lvl=1; h,r-ind=1,1
    [3,3]((7,35,45),(5,25,32),(8,39,50)); lvl=2; h,r-ind=1,1
    [6,3]((6,29,37),(10,47,60),(13,61,78),(12,57,73),(5,25,32),(8,39,50)); lvl=2; h,r-ind=1,1
      [3,3]((13,61,78),(10,47,60),(9,43,55)); lvl=3; h,r-ind=1,1
      [3,3]((6,29,37),(10,47,60),(9,43,55)); lvl=3; h,r-ind=1,1
      [3,3]((6,29,37),(5,25,32),(9,43,55)); lvl=3; h,r-ind=1,1
      [3,3]((12,57,73),(13,61,78),(9,43,55)); lvl=3; h,r-ind=1,1
      [3,3]((8,39,50),(12,57,73),(9,43,55)); lvl=3; h,r-ind=1,1
      [3,3]((5,25,32),(8,39,50),(9,43,55)); lvl=3; h,r-ind=1,1
    [3,3]((6,29,37),(3,15,19),(5,25,32)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(6,29,37),(10,47,60),(3,15,19)); lvl=2; h,r-ind=1,1
      [3,3]((7,33,42),(10,47,60),(6,29,37)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,19),(7,33,42),(6,29,37)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,15,19),(7,33,42)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(7,33,42),(10,47,60)); lvl=3; h,r-ind=1,1
    [4,3]((3,14,18),(13,61,78),(12,57,73),(4,18,23)); lvl=2; h,r-ind=1,1
      [3,3]((12,57,73),(13,61,78),(16,75,96)); lvl=3; h,r-ind=1,1
      [3,3]((4,18,23),(13,61,78),(16,75,96)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,18),(12,57,73),(16,75,96)); lvl=3; h,r-ind=1,1
      [3,3]((4,18,23),(3,14,18),(16,75,96)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(10,47,60),(13,61,78),(4,18,23)); lvl=2; h,r-ind=1,1
      [3,3]((10,47,60),(13,61,78),(14,65,83)); lvl=3; h,r-ind=1,1
      [3,3]((4,18,23),(13,61,78),(14,65,83)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(10,47,60),(14,65,83)); lvl=3; h,r-ind=1,1
      [3,3]((4,18,23),(1,4,5),(14,65,83)); lvl=3; h,r-ind=1,1
    [4,3]((3,14,18),(12,57,73),(7,35,45),(8,39,50)); lvl=2; h,r-ind=1,1
      [3,3]((11,53,68),(12,57,73),(8,39,50)); lvl=3; h,r-ind=1,1
      [3,3]((7,35,45),(11,53,68),(8,39,50)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,18),(7,35,45),(11,53,68)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,18),(11,53,68),(12,57,73)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,14),(3,14,18),(4,18,23)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(3,11,14),(4,18,23)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,4,5),(3,11,14),(3,14,18)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(3,11,14),(7,22,28)); lvl=2; h,r-ind=1,1
    [4,3]((3,14,18),(2,7,9),(3,11,14),(7,22,28)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,18,23),(7,22,28),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,18),(5,18,23),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,23),(3,11,14),(7,22,28)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,18),(5,18,23),(3,11,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(2,7,9),(2,4,5),(7,22,28)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,9),(7,22,28),(4,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(7,22,28),(4,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,7,9),(4,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,0,0),(4,11,14)); lvl=3; h,r-ind=1,1
  [3,3]((3,17,22),(1,0,0),(3,14,18)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,17,22),(7,35,45),(3,14,18)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,6),(2,4,5),(1,4,5),(3,11,14)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(3,8,10),(3,11,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(3,8,10),(3,11,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,5,6),(3,8,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(2,4,5),(3,8,10)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,5,6),(1,2,2),(2,4,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,1),(5,10,12),(1,2,2),(2,5,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,6,7),(5,10,12),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,6,7),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,2),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,6,7),(5,10,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(5,10,12),(2,5,6)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((1,0,0),(1,1,1),(2,4,5),(5,10,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,6),(2,4,5),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,5,6),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,5,6),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,5,6),(1,4,5),(3,15,19),(3,16,20)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,5),(3,15,19),(4,20,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,16,20),(3,15,19),(4,20,25)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,5),(4,20,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,16,20),(1,5,6),(4,20,25)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,7),(1,5,6),(3,17,21),(3,16,20)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,6),(3,16,20),(4,22,27)); lvl=2; h,r-ind=1,1
    [3,3]((3,17,21),(3,16,20),(4,22,27)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,7),(3,17,21),(4,22,27)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,7),(1,5,6),(4,22,27)); lvl=2; h,r-ind=1,1
  [3,3]((3,17,22),(3,17,21),(3,16,20)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,17,22),(1,6,7),(3,17,21)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,17,22),(1,6,7)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,4,4),(1,6,7),(1,5,6)); lvl=1; h,r-ind=1,1
    [4,3]((1,5,5),(2,11,11),(1,5,6),(2,11,12)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,11),(2,11,12),(3,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,11,12),(3,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,5,6),(3,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(2,11,11),(3,16,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,7),(1,5,6),(2,11,12)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,6,7),(2,11,11),(2,11,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,6,6),(2,11,11),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,6),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,7),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(2,11,11)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(2,11,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,5),(1,4,4),(1,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,4,4)); lvl=2; h,r-ind=1,1
  [5,3]((1,4,4),(2,5,6),(1,2,2),(1,5,6),(1,4,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,4,5),(4,16,19),(2,6,7),(2,7,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,11,13),(2,7,8),(4,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,11,13),(4,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,11,13),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,6,7),(3,11,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(1,2,2),(2,6,7),(2,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,6,7),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(2,6,7),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(1,3,3),(3,9,10)); lvl=3; h,r-ind=1,1
    [5,3]((1,4,4),(1,5,6),(1,3,3),(4,16,19),(2,7,8)); lvl=2; h,r-ind=1,1
      [4,3]((4,15,17),(2,7,8),(5,20,23),(3,12,14)); lvl=3; h,r-ind=1,1
        [3,3]((7,27,31),(3,12,14),(5,20,23)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,17),(7,27,31),(5,20,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(7,27,31),(3,12,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,17),(2,7,8),(7,27,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(5,20,23),(3,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(4,16,19),(3,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(4,16,19),(3,12,14)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(2,8,9),(4,15,17),(5,20,23)); lvl=3; h,r-ind=1,1
        [3,3]((2,8,9),(5,20,23),(6,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,17),(5,20,23),(6,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,8,9),(6,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,17),(1,3,3),(6,23,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,8,9),(5,20,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,4),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(4,15,17),(2,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(2,5,6),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,5,6),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,5),(4,16,19)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((3,17,22),(7,35,45),(3,15,19),(3,16,20)); lvl=1; h,r-ind=1,1
    [4,3]((5,25,32),(16,82,105),(7,36,46),(3,15,19)); lvl=2; h,r-ind=1,1
      [3,3]((12,61,78),(7,36,46),(16,82,105)); lvl=3; h,r-ind=1,1
      [3,3]((5,25,32),(12,61,78),(16,82,105)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,19),(5,25,32),(12,61,78)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,19),(12,61,78),(7,36,46)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,14),(3,16,20),(7,36,46),(3,15,19)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,26,33),(3,15,19),(3,16,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(5,26,33),(3,16,20)); lvl=3; h,r-ind=1,1
      [3,3]((7,36,46),(5,26,33),(3,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(7,36,46),(5,26,33)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,14),(4,21,27),(16,82,105),(7,36,46)); lvl=2; h,r-ind=1,1
      [3,3]((11,57,73),(16,82,105),(4,21,27)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,11,14),(11,57,73),(4,21,27)); lvl=3; h,r-ind=1,1
      [3,3]((11,57,73),(7,36,46),(16,82,105)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(11,57,73),(7,36,46)); lvl=3; h,r-ind=1,1
    [3,3]((3,17,22),(2,11,14),(4,21,27)); lvl=2; h,r-ind=1,1
    [4,3]((7,35,45),(5,25,32),(4,21,27),(16,82,105)); lvl=2; h,r-ind=1,1
      [3,3]((9,46,59),(5,25,32),(16,82,105)); lvl=3; h,r-ind=1,1
      [3,3]((9,46,59),(4,21,27),(16,82,105)); lvl=3; h,r-ind=1,1
      [3,3]((7,35,45),(9,46,59),(4,21,27)); lvl=3; h,r-ind=1,1
      [3,3]((7,35,45),(9,46,59),(5,25,32)); lvl=3; h,r-ind=1,1
    [3,3]((3,17,22),(7,35,45),(4,21,27)); lvl=2; h,r-ind=1,1
```

22.41 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,18,22)); lvl=0; h,r-ind=22,242
  [5,3]((1,2,2),(2,6,7),(1,5,6),(2,11,13),(1,4,4)); lvl=1; h,r-ind=1,1
    [4,3]((1,5,6),(4,19,22),(2,7,8),(2,8,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,8,9),(4,19,22),(3,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(4,19,22),(3,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(2,8,9),(3,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,7,8),(3,13,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(1,2,2),(2,7,8),(2,8,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,7,8),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(2,7,8),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(1,3,3),(3,10,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(1,4,4),(4,19,22),(2,8,9)); lvl=2; h,r-ind=1,1
      [4,3]((2,8,9),(7,28,31),(4,19,22),(5,23,26)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,8,9),(11,47,53),(4,17,19),(7,28,31)); lvl=4; h,r-ind=1,3
          [3,3]((6,25,28),(4,17,19),(11,47,53)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,9),(6,25,28),(11,47,53)); lvl=5; h,r-ind=1,1
          [3,3]((7,28,31),(6,25,28),(4,17,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,9),(7,28,31),(6,25,28)); lvl=5; h,r-ind=1,1
        [3,3]((11,47,53),(3,14,16),(4,17,19)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,14,16),(5,23,26),(4,17,19)); lvl=4; h,r-ind=1,1
        [4,3]((2,8,9),(11,47,53),(3,14,16),(4,19,22)); lvl=4; h,r-ind=1,3
          [3,3]((11,47,53),(5,22,25),(3,14,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,22),(5,22,25),(3,14,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,9),(11,47,53),(5,22,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,22),(2,8,9),(5,22,25)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,3),(7,28,31),(1,4,4),(5,23,26)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((4,17,19),(2,9,10),(8,32,35)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,3,3),(7,28,31),(4,17,19),(8,32,35)); lvl=4; h,r-ind=1,3
          [3,3]((5,20,22),(4,17,19),(7,28,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(5,20,22),(7,28,31)); lvl=5; h,r-ind=1,1
          [3,3]((8,32,35),(5,20,22),(4,17,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(8,32,35),(5,20,22)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,3),(1,4,4),(2,9,10),(8,32,35)); lvl=4; h,r-ind=1,3
          [3,3]((1,4,4),(3,12,13),(2,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((8,32,35),(3,12,13),(2,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(8,32,35),(3,12,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(1,4,4),(3,12,13)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,19),(2,9,10),(5,23,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,8,9),(7,28,31)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(2,6,7),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,6,7),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(2,11,13),(4,19,22)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,4),(2,11,13),(4,19,22)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,6,7),(0,1,0),(2,11,13),(1,4,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,5),(1,4,4),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,11),(1,5,5),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,7),(2,11,11),(2,11,12),(0,1,0)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,6,6),(0,1,0),(2,11,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(2,11,12),(2,11,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,6),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,6),(0,1,0)); lvl=3; h,r-ind=1,1
    [5,3]((2,11,11),(5,27,30),(2,11,12),(1,5,5),(3,15,16)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,5),(8,42,45),(10,53,57),(3,16,17)); lvl=3; h,r-ind=1,1
        [3,3]((8,42,45),(10,53,57),(11,58,62)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,17),(10,53,57),(11,58,62)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(3,16,17),(11,58,62)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(8,42,45),(11,58,62)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,12),(9,48,52),(10,53,57),(3,16,17)); lvl=3; h,r-ind=1,1
        [3,3]((12,64,69),(10,53,57),(9,48,52)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(12,64,69),(9,48,52)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,17),(12,64,69),(10,53,57)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(3,16,17),(12,64,69)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,11),(2,11,12),(3,16,17)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,11,11),(1,5,5),(3,16,17)); lvl=3; h,r-ind=1,1
      [6,3]((6,32,35),(9,48,52),(4,21,23),(5,26,28),(8,42,45),(10,53,57)); lvl=3; h,r-ind=1,1
        [3,3]((7,37,40),(10,53,57),(9,48,52)); lvl=4; h,r-ind=1,1
        [3,3]((6,32,35),(7,37,40),(9,48,52)); lvl=4; h,r-ind=1,1
        [3,3]((6,32,35),(4,21,23),(7,37,40)); lvl=4; h,r-ind=1,1
        [3,3]((7,37,40),(10,53,57),(8,42,45)); lvl=4; h,r-ind=1,1
        [3,3]((7,37,40),(5,26,28),(8,42,45)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,23),(7,37,40),(5,26,28)); lvl=4; h,r-ind=1,1
      [3,3]((5,27,30),(6,32,35),(4,21,23)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,12),(5,27,30),(6,32,35),(9,48,52)); lvl=3; h,r-ind=1,1
        [3,3]((8,43,47),(5,27,30),(6,32,35)); lvl=4; h,r-ind=1,1
        [3,3]((9,48,52),(8,43,47),(6,32,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(9,48,52),(8,43,47)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(8,43,47),(5,27,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,15,16),(4,21,23),(5,26,28)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,5),(3,15,16),(5,26,28),(8,42,45)); lvl=3; h,r-ind=1,1
        [3,3]((3,15,16),(5,26,28),(6,31,33)); lvl=4; h,r-ind=1,1
        [3,3]((8,42,45),(5,26,28),(6,31,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(8,42,45),(6,31,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(3,15,16),(6,31,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(4,22,25),(2,11,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,7),(4,22,25),(5,27,30),(2,11,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,22,25),(5,27,30),(6,33,37)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,12),(5,27,30),(6,33,37)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,12),(6,33,37)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(4,22,25),(6,33,37)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,5),(3,15,16),(1,4,4)); lvl=2; h,r-ind=1,1
    [5,3]((4,22,25),(5,27,30),(3,15,16),(2,11,13),(1,4,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,15,16),(2,10,11),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(2,10,11),(1,4,4)); lvl=3; h,r-ind=1,1
      [4,3]((3,15,16),(4,21,23),(2,10,11),(5,26,29)); lvl=3; h,r-ind=1,1
        [3,3]((4,21,23),(6,31,34),(5,26,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(6,31,34),(5,26,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(3,15,16),(6,31,34)); lvl=4; h,r-ind=1,1
        [3,3]((3,15,16),(4,21,23),(6,31,34)); lvl=4; h,r-ind=1,1
      [4,3]((5,27,30),(3,16,18),(4,21,23),(5,26,29)); lvl=3; h,r-ind=1,1
        [3,3]((3,16,18),(5,26,29),(7,37,41)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,23),(5,26,29),(7,37,41)); lvl=4; h,r-ind=1,1
        [3,3]((5,27,30),(3,16,18),(7,37,41)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,23),(5,27,30),(7,37,41)); lvl=4; h,r-ind=1,1
      [3,3]((4,22,25),(5,27,30),(3,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(2,10,11),(5,26,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,18),(2,11,13),(5,26,29)); lvl=3; h,r-ind=1,1
      [3,3]((4,22,25),(3,16,18),(2,11,13)); lvl=3; h,r-ind=1,1
  [3,3]((3,18,22),(1,6,7),(2,11,13)); lvl=1; h,r-ind=1,1
  [3,3]((3,18,22),(1,6,7),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,4,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,2),(2,6,7)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(2,6,7),(1,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,9,11),(1,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((3,18,22),(2,9,11),(1,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((3,18,22),(1,5,6),(2,11,13)); lvl=1; h,r-ind=1,1
```

22.42 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,20,22)); lvl=0; h,r-ind=22,242
  [3,3]((1,4,4),(1,1,1),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,4),(1,7,7),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,20,22),(1,7,7),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((3,20,21),(3,16,17),(1,4,4),(1,7,7)); lvl=1; h,r-ind=1,1
    [4,3]((3,18,19),(2,11,11),(3,16,17),(1,4,4)); lvl=2; h,r-ind=1,1
      [4,3]((3,16,17),(3,17,18),(1,4,4),(1,5,5)); lvl=3; h,r-ind=1,1
        [3,3]((4,21,22),(1,5,5),(3,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,17),(4,21,22),(3,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(3,16,17),(4,21,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(4,21,22),(1,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((3,18,19),(3,17,18),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,18,19),(2,11,11),(1,5,5)); lvl=3; h,r-ind=1,1
    [4,3]((3,20,21),(3,18,19),(1,7,7),(2,11,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,18,19),(2,11,11),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,19,20),(3,18,19),(1,6,6)); lvl=3; h,r-ind=1,1
      [4,3]((3,19,20),(3,20,21),(1,7,7),(1,6,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,7),(3,20,21),(4,26,27)); lvl=4; h,r-ind=1,1
        [3,3]((3,19,20),(3,20,21),(4,26,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(3,19,20),(4,26,27)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((1,6,6),(1,7,7),(4,26,27)); lvl=4; h,r-ind=1,1
  [3,3]((3,20,22),(3,20,21),(1,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((3,20,22),(3,20,21),(3,16,17)); lvl=1; h,r-ind=12,12; optimized-h
  [4,3]((3,16,17),(3,12,13),(1,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((3,14,15),(3,12,13),(2,5,5),(1,1,1)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,2),(3,13,14),(3,12,13),(1,1,1)); lvl=3; h,r-ind=1,1
        [3,3]((3,13,14),(3,12,13),(4,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,12,13),(4,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,13,14),(4,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(4,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,15),(1,2,2),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,15),(2,5,5),(1,2,2)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,4),(3,16,17),(3,14,15),(2,5,5)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,4),(1,3,3),(3,16,17),(3,15,16)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,3),(3,15,16),(4,19,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,17),(3,15,16),(4,19,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(1,3,3),(4,19,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,17),(1,4,4),(4,19,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(3,14,15),(3,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,5),(3,14,15)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(2,10,11),(3,12,13),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((3,11,12),(2,10,11),(3,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,12),(1,1,1),(3,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,11,12),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,11,12),(2,10,11)); lvl=2; h,r-ind=1,1
  [4,3]((2,10,11),(3,20,22),(3,16,17),(3,12,13)); lvl=1; h,r-ind=2,2
    [4,3]((2,11,12),(3,14,15),(3,16,17),(2,12,13)); lvl=2; h,r-ind=1,1
      [4,3]((7,38,41),(2,12,13),(3,15,16),(3,16,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,27,29),(2,12,13),(3,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,15,16),(5,27,29),(3,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((7,38,41),(5,27,29),(2,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,15,16),(7,38,41),(5,27,29)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,12),(7,38,41),(3,14,15),(3,15,16)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,26,28),(3,15,16),(7,38,41)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(5,26,28),(7,38,41)); lvl=4; h,r-ind=1,1
        [3,3]((3,14,15),(5,26,28),(3,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(3,14,15),(5,26,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,12),(7,38,41),(2,12,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,20,22),(2,11,12),(2,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,11),(3,20,22),(2,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,12,13),(2,11,12),(3,14,15)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((2,10,11),(3,12,13),(2,11,12)); lvl=2; h,r-ind=1,1
```

22.43 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,21,22)); lvl=0; h,r-ind=22,484
  [3,3]((3,21,22),(1,4,4),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(3,21,22),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,21,22),(1,4,4),(1,7,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(3,21,22),(1,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(1,7,7)); lvl=1; h,r-ind=3,3; optimized-h
```

22.44 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,5,22)); lvl=0; h,r-ind=22,242
  [3,3]((1,1,4),(1,0,0),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((0,1,0),(2,3,6),(1,0,0),(2,2,5)); lvl=1; h,r-ind=1,3
    [3,3]((1,1,2),(2,2,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,2),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,0,0),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,2,3),(1,0,0)); lvl=2; h,r-ind=3,9; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((2,3,6),(2,3,9),(3,4,14),(1,1,4),(2,2,5)); lvl=1; h,r-ind=1,1
    [4,3]((3,4,11),(3,4,13),(2,3,9),(4,6,15)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,12),(2,3,8),(3,4,13),(2,3,9)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,21),(2,3,9),(2,3,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,12),(5,7,21),(2,3,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,13),(5,7,21),(2,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,12),(3,4,13),(5,7,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,12),(3,4,11),(2,3,8)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((3,4,11),(2,3,8),(4,6,15)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,6),(3,4,11),(1,1,3),(4,6,15)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,11),(6,8,21)); lvl=3; h,r-ind=1,1
      [4,3]((4,6,15),(2,3,7),(3,4,11),(6,8,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,18),(3,4,11),(6,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,18),(2,3,7),(6,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(5,7,18),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(5,7,18),(3,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(1,1,3),(6,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(2,3,7),(1,1,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(2,2,5),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,14),(3,4,13),(2,3,9)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,11),(3,4,13),(1,1,3),(1,1,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,4),(5,6,19)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,12),(3,4,13),(1,1,4),(5,6,19)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,13),(4,5,16),(1,1,4)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,19),(4,5,16),(1,1,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,12),(5,6,19),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,12),(3,4,13),(4,5,16)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,11),(3,4,12),(1,1,3),(5,6,19)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,12),(5,6,19),(4,5,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(5,6,19),(4,5,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,11),(1,1,3),(4,5,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,11),(3,4,12),(4,5,15)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,14),(3,4,13),(1,1,4)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,6),(2,3,9),(1,2,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,4),(1,2,3),(2,3,6),(4,6,15)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,7),(1,2,3),(2,3,6),(4,7,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,10),(2,3,6),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,14),(3,5,10),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(4,7,14),(3,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(3,5,10),(2,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,7),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,7),(4,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,3),(4,7,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,9),(4,6,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,4),(1,2,5),(2,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((4,5,20),(3,4,15),(3,4,14),(1,1,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,15),(4,5,19),(3,4,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(4,5,19),(3,4,14)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,20),(3,4,15),(4,5,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(4,5,20),(4,5,19)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,22),(4,5,20),(1,1,4)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((4,5,22),(4,5,20),(3,4,16),(3,4,15)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,16),(3,4,15),(10,13,52)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,21),(4,5,20),(3,4,15),(10,13,52)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,20),(7,9,36),(3,4,15)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,52),(7,9,36),(3,4,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,21),(10,13,52),(7,9,36)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,21),(4,5,20),(7,9,36)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,22),(4,5,21),(3,4,16),(10,13,52)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,21),(10,13,52),(7,9,37)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,16),(10,13,52),(7,9,37)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,22),(3,4,16),(7,9,37)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,22),(4,5,21),(7,9,37)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,5),(2,3,11),(3,4,16),(3,4,15)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,11),(7,10,37),(3,4,16)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,10),(3,4,15),(7,10,37),(3,4,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,7,26),(3,4,16),(3,4,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(5,7,26),(3,4,15)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,37),(5,7,26),(3,4,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(7,10,37),(5,7,26)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(2,3,10),(2,3,11),(7,10,37)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,6,21),(2,3,10),(7,10,37)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,21),(2,3,11),(7,10,37)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(4,6,21),(2,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(4,6,21),(2,3,10)); lvl=3; h,r-ind=1,1
  [3,3]((4,5,22),(2,3,11),(3,4,16)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,9),(1,2,5),(3,4,15),(3,4,14)); lvl=1; h,r-ind=1,1
    [4,3]((7,10,33),(3,4,14),(2,3,10),(3,4,15)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,14),(5,7,24),(3,4,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(5,7,24),(3,4,15)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,33),(2,3,10),(5,7,24)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,33),(3,4,14),(5,7,24)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,9),(7,10,33),(1,2,5),(2,3,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,6,19),(7,10,33),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(4,6,19),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(1,2,5),(4,6,19)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,3,9),(4,6,19),(7,10,33)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(7,10,33),(3,4,14)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,5),(2,3,11)); lvl=1; h,r-ind=1,1
  [3,3]((4,4,17),(1,1,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,22),(4,4,17),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((4,5,22),(4,4,17),(1,1,4)); lvl=1; h,r-ind=1,1
```

22.45 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,7,22)); lvl=0; h,r-ind=22,242
  [5,3]((3,5,15),(1,2,5),(2,3,9),(1,2,4),(2,3,8)); lvl=1; h,r-ind=1,1
    [5,3]((2,3,8),(1,2,4),(5,8,22),(6,10,27),(4,7,18)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,13),(6,10,27),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,13),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(1,2,4),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(5,8,22),(6,10,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(3,5,13),(5,8,22)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,14),(1,2,5),(6,10,27),(4,7,18)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,5),(4,7,18),(7,12,32)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,27),(4,7,18),(7,12,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,14),(1,2,5),(7,12,32)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,27),(3,5,14),(7,12,32)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,15),(3,5,14),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,4),(4,7,18)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(2,3,8),(5,8,22)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,14),(2,3,9),(5,8,22),(6,10,27)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,9),(5,8,22),(8,13,36)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,27),(5,8,22),(8,13,36)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,14),(2,3,9),(8,13,36)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,27),(3,5,14),(8,13,36)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,15),(3,5,14),(2,3,9)); lvl=2; h,r-ind=1,1
  [5,3]((1,1,2),(1,2,3),(1,1,3),(1,2,4),(2,3,8)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,7),(2,3,8),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,13),(3,5,10),(2,3,7),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,10),(5,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(3,5,10),(5,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(4,6,13),(5,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(1,2,4),(5,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,10),(1,2,4)); lvl=2; h,r-ind=1,1
    [5,3]((1,1,2),(1,2,3),(3,4,9),(4,6,13),(3,5,10)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,6),(4,6,13),(3,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(1,2,3),(3,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,4,9),(4,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(3,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,7),(2,3,8)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,9),(4,6,13),(1,1,3),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,7),(4,6,13),(5,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(4,6,13),(5,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,9),(5,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,7),(5,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,9),(1,1,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(1,1,2),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,3),(2,3,4),(0,1,0),(1,2,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,2),(1,2,3),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(1,2,2),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(0,1,0),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(2,3,3),(1,1,2),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,3),(2,3,4),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,4),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,1,2),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,3),(2,3,9),(2,3,8)); lvl=1; h,r-ind=1,1
  [3,3]((4,7,22),(1,1,3),(2,3,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,7,22),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,5),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((4,7,22),(3,5,15),(2,3,9)); lvl=1; h,r-ind=1,1
  [4,3]((4,7,22),(2,4,11),(3,5,15),(1,2,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,5),(4,7,21),(6,11,32),(9,16,48)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,21),(9,16,48),(10,18,53)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((6,11,32),(9,16,48),(10,18,53)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(4,7,21),(10,18,53)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,32),(1,2,5),(10,18,53)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,22),(2,4,11),(6,11,32),(9,16,48)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,11),(5,9,27),(6,11,32)); lvl=3; h,r-ind=1,1
      [3,3]((9,16,48),(5,9,27),(6,11,32)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,22),(9,16,48),(5,9,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,22),(2,4,11),(5,9,27)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,22),(4,7,21),(9,16,48)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,11),(1,2,5),(6,11,32)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,15),(1,2,5),(4,7,21)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,22),(3,5,15),(4,7,21)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,11),(1,2,5)); lvl=1; h,r-ind=1,1
```

22.46 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,11,22)); lvl=0; h,r-ind=22,22
  [4,3]((1,3,5),(2,5,10),(1,3,3),(2,3,6)); lvl=1; h,r-ind=2,1
    [3,3]((1,2,3),(2,3,6),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,8),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(2,5,8),(2,5,10),(1,2,4)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,8),(2,5,9),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(2,5,9),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,8),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(1,3,5),(2,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,5),(2,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(2,5,8),(1,3,3),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(1,2,3),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(1,3,3),(1,2,3)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,3),(2,3,6)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,3,5),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((2,6,11),(4,11,22),(1,3,5),(2,5,10)); lvl=1; h,r-ind=1,1
    [4,3]((2,6,11),(6,17,32),(3,8,16),(4,11,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,16),(6,17,32),(5,14,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,11),(6,17,32),(5,14,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,22),(3,8,16),(5,14,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,11),(4,11,22),(5,14,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,6,11),(6,17,32)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(6,17,32),(2,5,10),(3,8,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,11,21),(3,8,16),(6,17,32)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(4,11,21),(6,17,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(4,11,21),(3,8,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,10),(4,11,21)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,6,11),(1,3,5)); lvl=1; h,r-ind=1,1
```

22.47 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,13,22)); lvl=0; h,r-ind=22,242
  [3,3]((1,2,3),(1,3,3),(1,3,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,3,3),(1,3,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(2,7,11),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,13,22),(2,7,11),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,13,22),(1,0,0),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

22.48 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,17,22)); lvl=0; h,r-ind=22,242
  [4,3]((1,4,5),(2,5,6),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,7),(1,2,2),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,6,7),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(1,3,3),(2,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,5),(0,1,0),(1,3,3)); lvl=1; h,r-ind=2,4; optimized-h
```

```
  [3,3]((1,4,5),(2,9,11),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,17,22),(1,4,5),(2,9,11)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,4,5),(2,5,6),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(5,10,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(1,1,1),(2,5,6),(5,10,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(3,6,7),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,6,7),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(3,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,1),(2,4,5),(5,10,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,6),(2,4,5),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,5,6),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,5,6),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((3,11,14),(1,4,5),(2,4,5),(2,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,10),(2,5,6),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,14),(3,8,10),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,11,14),(3,8,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,8,10),(2,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((3,11,14),(1,0,0),(2,7,9),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((4,11,14),(1,0,0),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,14),(4,11,14),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,11,14),(4,11,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(4,11,14),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((4,17,22),(1,0,0),(2,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((4,17,22),(3,11,14),(2,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((4,17,22),(3,11,14),(1,4,5)); lvl=1; h,r-ind=1,1
```

22.49 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,19,22)); lvl=0; h,r-ind=22,242
  [4,3]((4,17,19),(2,7,8),(1,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((2,8,9),(1,2,2),(2,7,8),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((3,9,10),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(3,9,10),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,9,10),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(2,7,8),(3,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,9),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,9),(4,17,19),(1,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,7,8),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((4,17,19),(3,13,15),(2,7,8),(6,27,31)); lvl=1; h,r-ind=1,1
    [4,3]((2,8,9),(13,56,64),(3,13,15),(2,7,8)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((13,56,64),(5,21,24),(3,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(5,21,24),(3,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(2,7,8),(5,21,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(13,56,64),(5,21,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,9),(4,17,19),(5,22,25)); lvl=2; h,r-ind=1,1
    [4,3]((6,27,31),(8,35,40),(13,56,64),(3,13,15)); lvl=2; h,r-ind=1,1
      [3,3]((11,48,55),(13,56,64),(8,35,40)); lvl=3; h,r-ind=1,1
      [3,3]((6,27,31),(11,48,55),(8,35,40)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,15),(6,27,31),(11,48,55)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,15),(11,48,55),(13,56,64)); lvl=3; h,r-ind=1,1
    [4,3]((2,8,9),(5,22,25),(8,35,40),(13,56,64)); lvl=2; h,r-ind=1,1
      [3,3]((5,22,25),(10,43,49),(8,35,40)); lvl=3; h,r-ind=1,1
      [3,3]((13,56,64),(10,43,49),(8,35,40)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(13,56,64),(10,43,49)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(5,22,25),(10,43,49)); lvl=3; h,r-ind=1,1
    [3,3]((6,27,31),(5,22,25),(8,35,40)); lvl=2; h,r-ind=1,1
  [3,3]((4,19,22),(3,13,15),(6,27,31)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,19,22),(3,13,15)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,13,15),(2,7,8)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(4,17,19),(2,9,10),(1,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((2,9,10),(5,21,23),(4,16,17),(1,4,4)); lvl=2; h,r-ind=1,1
      [3,3]((6,25,27),(4,16,17),(5,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(6,25,27),(5,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((6,25,27),(1,4,4),(4,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(6,25,27),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(4,16,17),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,5),(2,9,10),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(4,17,19),(5,21,23),(4,16,17)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,12,13),(5,21,23),(4,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,12,13),(4,17,19)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((3,12,13),(4,16,17),(5,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,12,13),(4,16,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,10),(4,17,19),(5,21,23)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,10,11),(2,9,10)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,19,22),(2,10,11),(2,9,10)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((4,19,22),(4,17,19),(6,27,31),(2,9,10)); lvl=1; h,r-ind=2,1
    [4,3]((3,14,16),(2,9,10),(5,22,25),(4,17,19)); lvl=2; h,r-ind=1,1
      [3,3]((4,17,19),(2,9,10),(7,31,35)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,16),(2,9,10),(7,31,35)); lvl=3; h,r-ind=1,1
      [3,3]((5,22,25),(3,14,16),(7,31,35)); lvl=3; h,r-ind=1,1
      [3,3]((5,22,25),(4,17,19),(7,31,35)); lvl=3; h,r-ind=1,1
    [4,3]((3,14,16),(4,19,22),(6,27,31),(5,22,25)); lvl=2; h,r-ind=1,1
      [3,3]((6,27,31),(4,19,22),(9,41,47)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,16),(4,19,22),(9,41,47)); lvl=3; h,r-ind=1,1
      [3,3]((5,22,25),(3,14,16),(9,41,47)); lvl=3; h,r-ind=1,1
      [3,3]((5,22,25),(6,27,31),(9,41,47)); lvl=3; h,r-ind=1,1
```

22.50 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,21,22)); lvl=0; h,r-ind=22,242
  [3,3]((0,1,0),(1,1,1),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,21,22),(1,1,1),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,5,5),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,21,22),(1,5,5),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(2,11,11),(1,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,21,22),(2,11,11),(1,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((4,21,22),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

22.51 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,5,22)); lvl=0; h,r-ind=22,484
  [3,3]((1,0,0),(1,1,4),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,1,4),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,2,5)); lvl=1; h,r-ind=5,25; optimized-h
  [3,3]((1,0,0),(4,4,17),(1,1,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,4,17),(1,1,4)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,13),(1,0,0),(4,4,17)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,22),(3,3,13),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,13),(4,4,17)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,22),(0,1,0),(3,3,13)); lvl=1; h,r-ind=1,1
```

22.52 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,6,22)); lvl=0; h,r-ind=22,242
  [4,3]((0,1,0),(1,0,0),(2,3,5),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,3),(1,1,1),(2,3,4),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(1,1,2),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(2,3,4),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,4),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,5),(2,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(2,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
  [5,3]((2,3,7),(3,4,11),(1,1,3),(2,3,5),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,14),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [5,3]((5,6,14),(3,4,9),(2,3,6),(2,3,5),(1,1,2)); lvl=2; h,r-ind=1,1
      [4,3]((7,9,19),(6,8,17),(2,3,6),(3,4,8)); lvl=3; h,r-ind=1,1
        [3,3]((6,8,17),(2,3,6),(9,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,8),(2,3,6),(9,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,19),(3,4,8),(9,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,19),(6,8,17),(9,12,25)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,19),(1,1,2),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,11),(7,9,19),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,14),(4,5,11),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(2,3,6),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,5),(3,4,8)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((4,5,11),(7,9,19),(6,8,17),(3,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((6,8,17),(7,9,19),(10,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,11),(7,9,19),(10,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(4,5,11),(10,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(6,8,17),(10,13,28)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,14),(4,5,11),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,17),(2,3,6),(3,4,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,7),(3,4,9),(3,4,10),(2,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,16),(3,4,9),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,16),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(5,7,16),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,6),(5,7,16)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,14),(3,4,9),(3,4,10),(1,1,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,9),(3,4,10),(4,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,10),(4,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,14),(3,4,9),(4,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(5,6,14),(4,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,11),(3,4,10),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,11),(3,4,10)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,4),(2,3,7),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,12),(1,2,4),(2,3,7),(3,4,11)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,8),(1,2,4),(2,3,7),(7,10,26)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,6,15),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,26),(4,6,15),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(7,10,26),(4,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(4,6,15),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,11),(2,3,7),(7,10,26)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,11),(3,4,12),(2,3,8),(7,10,26)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,8),(3,4,12),(5,7,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,11),(3,4,12),(5,7,19)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,26),(2,3,8),(5,7,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,11),(7,10,26),(5,7,19)); lvl=3; h,r-ind=1,1
  [4,3]((6,8,25),(3,4,12),(1,2,4),(4,6,17)); lvl=1; h,r-ind=2,1
    [4,3]((5,7,21),(4,6,17),(2,3,8),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((6,9,25),(1,2,4),(4,6,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,21),(6,9,25),(4,6,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(6,9,25),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,21),(2,3,8),(6,9,25)); lvl=3; h,r-ind=1,1
    [4,3]((6,8,25),(5,7,21),(3,4,12),(2,3,8)); lvl=2; h,r-ind=1,1
      [3,3]((8,11,33),(2,3,8),(5,7,21)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,25),(8,11,33),(5,7,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,12),(8,11,33),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,25),(3,4,12),(8,11,33)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(4,6,17)); lvl=1; h,r-ind=1,1
  [4,3]((5,6,22),(4,5,17),(6,8,25),(4,6,17)); lvl=1; h,r-ind=1,1
    [4,3]((9,12,38),(16,21,68),(4,5,17),(6,8,25)); lvl=2; h,r-ind=1,1
      [3,3]((16,21,68),(4,5,17),(13,17,55)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,25),(4,5,17),(13,17,55)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,38),(16,21,68),(13,17,55)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,38),(6,8,25),(13,17,55)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,21),(9,12,38),(6,8,25)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,13),(5,7,21),(9,12,38),(16,21,68)); lvl=2; h,r-ind=1,1
      [3,3]((12,16,51),(5,7,21),(9,12,38)); lvl=3; h,r-ind=1,1
      [3,3]((16,21,68),(12,16,51),(9,12,38)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(16,21,68),(12,16,51)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(12,16,51),(5,7,21)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,13),(4,6,17),(5,7,21)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,22),(3,4,13),(16,21,68),(4,5,17)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,4,13),(7,9,30),(16,21,68)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,17),(7,9,30),(16,21,68)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,22),(4,5,17),(7,9,30)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,22),(3,4,13),(7,9,30)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(5,6,22),(4,6,17)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((11,13,44),(3,4,12),(3,4,11),(1,1,3),(3,3,10)); lvl=1; h,r-ind=1,1
    [4,3]((11,13,42),(7,8,26),(5,6,20),(9,11,36)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((9,11,36),(10,12,39),(5,6,20),(6,7,23)); lvl=3; h,r-ind=1,1
        [3,3]((10,12,39),(6,7,23),(15,18,59)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,20),(6,7,23),(15,18,59)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,36),(5,6,20),(15,18,59)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,36),(10,12,39),(15,18,59)); lvl=4; h,r-ind=1,1
      [4,3]((11,13,42),(10,12,39),(7,8,26),(6,7,23)); lvl=3; h,r-ind=1,1
        [3,3]((10,12,39),(6,7,23),(17,20,65)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,26),(6,7,23),(17,20,65)); lvl=4; h,r-ind=1,1
        [3,3]((11,13,42),(10,12,39),(17,20,65)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,26),(11,13,42),(17,20,65)); lvl=4; h,r-ind=1,1
```

```
[4,3]((11,13,42),(4,5,15),(3,4,12),(9,11,36)); lvl=2; h,r-ind=3,1; alert-h-inc
  [4,3]((5,6,19),(4,5,16),(3,4,12),(4,5,15)); lvl=3; h,r-ind=1,1
    [3,3]((8,10,31),(3,4,12),(4,5,16)); lvl=4; h,r-ind=1,1
    [3,3]((5,6,19),(8,10,31),(4,5,16)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,15),(8,10,31),(3,4,12)); lvl=4; h,r-ind=1,1
    [3,3]((5,6,19),(4,5,15),(8,10,31)); lvl=4; h,r-ind=1,1
  [3,3]((5,6,19),(10,12,39),(4,5,16)); lvl=3; h,r-ind=1,1
  [3,3]((10,12,39),(9,11,36),(4,5,16)); lvl=3; h,r-ind=1,1
  [3,3]((5,6,19),(11,13,42),(10,12,39)); lvl=3; h,r-ind=1,1
[5,3]((18,20,65),(11,13,42),(7,8,26),(1,1,3),(4,5,15)); lvl=2; h,r-ind=1,1
  [3,3]((12,14,45),(11,13,42),(5,6,19)); lvl=3; h,r-ind=1,1
  [5,3]((21,24,77),(20,23,74),(14,16,51),(12,14,45),(5,6,19)); lvl=3; h,r-ind=1,1
    [3,3]((14,16,51),(13,15,48),(5,6,19)); lvl=4; h,r-ind=1,1
    [3,3]((12,14,45),(13,15,48),(5,6,19)); lvl=4; h,r-ind=1,1
    [3,3]((20,23,74),(12,14,45),(13,15,48)); lvl=4; h,r-ind=1,1
    [3,3]((21,24,77),(14,16,51),(13,15,48)); lvl=4; h,r-ind=1,1
    [3,3]((20,23,74),(21,24,77),(13,15,48)); lvl=4; h,r-ind=1,1
  [4,3]((4,5,15),(1,1,3),(14,16,51),(5,6,19)); lvl=3; h,r-ind=1,3; alert-r-inc
    [3,3]((1,1,3),(6,7,22),(14,16,51)); lvl=4; h,r-ind=1,1
    [3,3]((5,6,19),(6,7,22),(14,16,51)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,15),(5,6,19),(6,7,22)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,15),(1,1,3),(6,7,22)); lvl=4; h,r-ind=1,1
  [4,3]((8,9,29),(1,1,3),(21,24,77),(14,16,51)); lvl=3; h,r-ind=1,1
    [3,3]((14,16,51),(21,24,77),(22,25,80)); lvl=4; h,r-ind=1,1
    [3,3]((8,9,29),(21,24,77),(22,25,80)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,3),(8,9,29),(22,25,80)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,3),(14,16,51),(22,25,80)); lvl=4; h,r-ind=1,1
  [3,3]((18,20,65),(8,9,29),(1,1,3)); lvl=3; h,r-ind=1,1
  [4,3]((8,9,29),(7,8,26),(21,24,77),(20,23,74)); lvl=3; h,r-ind=1,1
    [3,3]((28,32,103),(20,23,74),(7,8,26)); lvl=4; h,r-ind=1,1
    [3,3]((8,9,29),(28,32,103),(7,8,26)); lvl=4; h,r-ind=1,1
    [3,3]((21,24,77),(28,32,103),(20,23,74)); lvl=4; h,r-ind=1,1
    [3,3]((8,9,29),(21,24,77),(28,32,103)); lvl=4; h,r-ind=1,1
  [3,3]((18,20,65),(8,9,29),(7,8,26)); lvl=3; h,r-ind=1,1
  [4,3]((7,8,26),(20,23,74),(12,14,45),(11,13,42)); lvl=3; h,r-ind=1,1
    [3,3]((19,22,71),(20,23,74),(12,14,45)); lvl=4; h,r-ind=1,1
    [3,3]((11,13,42),(19,22,71),(12,14,45)); lvl=4; h,r-ind=1,1
    [3,3]((7,8,26),(11,13,42),(19,22,71)); lvl=4; h,r-ind=1,1
    [3,3]((7,8,26),(19,22,71),(20,23,74)); lvl=4; h,r-ind=1,1
[3,3]((3,4,11),(1,1,3),(4,5,15)); lvl=2; h,r-ind=1,1
[3,3]((3,4,11),(4,5,15),(3,4,12)); lvl=2; h,r-ind=1,1
[5,3]((7,8,27),(18,20,65),(10,11,36),(7,8,26),(5,6,20)); lvl=2; h,r-ind=1,1
  [5,3]((6,7,23),(15,17,56),(5,6,20),(7,8,27),(17,19,63)); lvl=3; h,r-ind=1,1
    [4,3]((29,33,109),(15,17,56),(17,19,63),(8,9,30)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((23,26,86),(15,17,56),(17,19,63)); lvl=5; h,r-ind=1,1
      [3,3]((8,9,30),(23,26,86),(17,19,63)); lvl=5; h,r-ind=1,1
      [3,3]((29,33,109),(23,26,86),(15,17,56)); lvl=5; h,r-ind=1,1
      [3,3]((8,9,30),(29,33,109),(23,26,86)); lvl=5; h,r-ind=1,1
    [4,3]((6,7,23),(29,33,109),(19,22,73),(8,9,30)); lvl=4; h,r-ind=1,1
      [3,3]((29,33,109),(14,16,53),(8,9,30)); lvl=5; h,r-ind=1,1
      [3,3]((19,22,73),(14,16,53),(8,9,30)); lvl=5; h,r-ind=1,1
      [3,3]((6,7,23),(29,33,109),(14,16,53)); lvl=5; h,r-ind=1,1
      [3,3]((6,7,23),(19,22,73),(14,16,53)); lvl=5; h,r-ind=1,1
    [4,3]((5,6,20),(19,22,73),(7,8,27),(8,9,30)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((19,22,73),(13,15,50),(8,9,30)); lvl=5; h,r-ind=1,1
      [3,3]((7,8,27),(13,15,50),(8,9,30)); lvl=5; h,r-ind=1,1
      [3,3]((5,6,20),(7,8,27),(13,15,50)); lvl=5; h,r-ind=1,1
      [3,3]((5,6,20),(19,22,73),(13,15,50)); lvl=5; h,r-ind=1,1
    [3,3]((6,7,23),(5,6,20),(19,22,73)); lvl=4; h,r-ind=1,1
    [3,3]((6,7,23),(29,33,109),(15,17,56)); lvl=4; h,r-ind=1,1
  [4,3]((15,17,56),(17,19,62),(10,11,36),(17,19,63)); lvl=3; h,r-ind=1,1
    [4,3]((9,10,33),(16,18,59),(17,19,62),(10,11,36)); lvl=4; h,r-ind=1,1
      [3,3]((17,19,62),(16,18,59),(26,29,95)); lvl=5; h,r-ind=1,1
      [3,3]((9,10,33),(16,18,59),(26,29,95)); lvl=5; h,r-ind=1,1
      [3,3]((10,11,36),(9,10,33),(26,29,95)); lvl=5; h,r-ind=1,1
      [3,3]((10,11,36),(17,19,62),(26,29,95)); lvl=5; h,r-ind=1,1
    [3,3]((15,17,56),(9,10,33),(16,18,59)); lvl=4; h,r-ind=1,1
    [3,3]((15,17,56),(17,19,63),(9,10,33)); lvl=4; h,r-ind=1,1
  [3,3]((18,20,65),(17,19,62),(10,11,36)); lvl=3; h,r-ind=1,1
  [4,3]((7,8,26),(6,7,23),(15,17,56),(17,19,62)); lvl=3; h,r-ind=1,1
    [4,3]((29,33,108),(16,18,59),(15,17,56),(6,7,23)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((22,25,82),(15,17,56),(16,18,59)); lvl=5; h,r-ind=1,1
      [3,3]((29,33,108),(22,25,82),(16,18,59)); lvl=5; h,r-ind=1,1
      [3,3]((22,25,82),(6,7,23),(15,17,56)); lvl=5; h,r-ind=1,1
      [3,3]((29,33,108),(22,25,82),(6,7,23)); lvl=5; h,r-ind=1,1
    [3,3]((7,8,26),(29,33,108),(6,7,23)); lvl=4; h,r-ind=1,1
    [4,3]((7,8,26),(29,33,108),(17,19,62),(16,18,59)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((16,18,59),(23,26,85),(29,33,108)); lvl=5; h,r-ind=1,1
      [3,3]((7,8,26),(23,26,85),(29,33,108)); lvl=5; h,r-ind=1,1
      [3,3]((17,19,62),(16,18,59),(23,26,85)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((7,8,26),(17,19,62),(23,26,85)); lvl=5; h,r-ind=1,1
      [3,3]((18,20,65),(7,8,26),(17,19,62)); lvl=3; h,r-ind=1,1
    [3,3]((11,13,44),(7,8,27),(5,6,20)); lvl=2; h,r-ind=1,1
    [3,3]((7,8,27),(3,3,10),(10,11,36)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((3,3,10),(18,20,65),(10,11,36),(1,1,3)); lvl=2; h,r-ind=1,1
      [3,3]((10,11,36),(18,20,65),(11,12,39)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(18,20,65),(11,12,39)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,10),(10,11,36),(11,12,39)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,3,10),(11,12,39)); lvl=3; h,r-ind=1,1
  [5,3]((5,6,22),(11,13,44),(5,6,21),(3,3,10),(3,3,11)); lvl=1; h,r-ind=1,1
    [5,3]((6,7,24),(15,17,59),(7,8,27),(3,3,10),(2,2,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,7),(15,17,59),(8,9,31)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,24),(15,17,59),(8,9,31)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,24),(7,8,27),(15,17,58)); lvl=3; h,r-ind=1,1
      [4,3]((11,12,41),(17,19,65),(2,2,7),(8,9,31)); lvl=3; h,r-ind=1,1
        [3,3]((19,21,72),(8,9,31),(17,19,65)); lvl=4; h,r-ind=1,1
        [3,3]((11,12,41),(19,21,72),(17,19,65)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,7),(19,21,72),(8,9,31)); lvl=4; h,r-ind=1,1
        [3,3]((11,12,41),(2,2,7),(19,21,72)); lvl=4; h,r-ind=1,1
      [4,3]((6,7,24),(15,17,58),(17,19,65),(8,9,31)); lvl=3; h,r-ind=1,1
        [3,3]((23,26,89),(17,19,65),(15,17,58)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,24),(23,26,89),(15,17,58)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,31),(23,26,89),(17,19,65)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,24),(8,9,31),(23,26,89)); lvl=4; h,r-ind=1,1
      [3,3]((11,12,41),(3,3,10),(2,2,7)); lvl=3; h,r-ind=1,1
      [5,3]((7,8,27),(15,17,58),(11,12,41),(17,19,65),(3,3,10)); lvl=3; h,r-ind=1,1
        [3,3]((9,10,34),(17,19,65),(15,17,58)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,27),(9,10,34),(15,17,58)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,34),(17,19,65),(11,12,41)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,34),(3,3,10),(11,12,41)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,27),(9,10,34),(3,3,10)); lvl=4; h,r-ind=1,1
    [4,3]((15,17,59),(7,8,28),(8,9,32),(2,2,7)); lvl=2; h,r-ind=1,1
      [3,3]((9,10,35),(7,8,28),(8,9,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,7),(9,10,35),(8,9,32)); lvl=3; h,r-ind=1,1
      [3,3]((15,17,59),(9,10,35),(7,8,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,7),(15,17,59),(9,10,35)); lvl=3; h,r-ind=1,1
    [4,3]((8,9,32),(5,6,22),(3,3,11),(2,2,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,22),(3,3,11),(7,8,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,7),(3,3,11),(7,8,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,7),(8,9,32),(7,8,29)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,32),(5,6,22),(7,8,29)); lvl=3; h,r-ind=1,1
    [3,3]((11,13,44),(6,7,24),(7,8,27)); lvl=2; h,r-ind=1,1
    [4,3]((6,7,24),(15,17,59),(7,8,28),(12,14,49)); lvl=2; h,r-ind=1,1
      [3,3]((13,15,52),(15,17,59),(7,8,28)); lvl=3; h,r-ind=1,1
      [3,3]((12,14,49),(13,15,52),(7,8,28)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,24),(12,14,49),(13,15,52)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,24),(13,15,52),(15,17,59)); lvl=3; h,r-ind=1,1
    [5,3]((7,8,28),(8,9,32),(12,14,49),(11,13,46),(5,6,22)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,25),(11,13,46),(5,6,22)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,32),(6,7,25),(5,6,22)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,25),(12,14,49),(11,13,46)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,28),(6,7,25),(12,14,49)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,28),(8,9,32),(6,7,25)); lvl=3; h,r-ind=1,1
    [4,3]((6,7,24),(12,14,49),(11,13,46),(5,6,21)); lvl=2; h,r-ind=1,1
      [3,3]((17,20,70),(11,13,46),(12,14,49)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,24),(17,20,70),(12,14,49)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,21),(6,7,24),(17,20,70)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,21),(17,20,70),(11,13,46)); lvl=3; h,r-ind=1,1
    [3,3]((11,13,46),(5,6,22),(5,6,21)); lvl=2; h,r-ind=1,1
    [3,3]((11,13,44),(6,7,24),(5,6,21)); lvl=2; h,r-ind=1,1
  [5,3]((11,13,44),(5,6,21),(4,5,17),(6,8,25),(3,4,12)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,17),(6,8,25),(7,9,29)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(6,8,25),(7,9,29)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,17),(22,27,92),(17,21,70),(7,9,29)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((8,10,33),(13,16,54),(17,21,70)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,33),(29,36,121),(13,16,54)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((4,5,17),(22,27,92),(29,36,121),(13,16,54)); lvl=3; h,r-ind=1,3
        [3,3]((17,21,71),(22,27,92),(13,16,54)); lvl=4; h,r-ind=1,1
        [3,3]((29,36,121),(17,21,71),(13,16,54)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,17),(29,36,121),(17,21,71)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,17),(17,21,71),(22,27,92)); lvl=4; h,r-ind=1,1
      [4,3]((4,5,17),(7,9,29),(8,10,33),(29,36,121)); lvl=3; h,r-ind=1,3
        [3,3]((12,15,50),(7,9,29),(8,10,33)); lvl=4; h,r-ind=1,1
        [3,3]((29,36,121),(12,15,50),(8,10,33)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,17),(29,36,121),(12,15,50)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,17),(12,15,50),(7,9,29)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,12),(9,11,36),(17,21,70),(7,9,29)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((8,10,33),(17,21,70),(13,16,53)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,16),(8,10,33),(13,16,53)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,36),(4,5,16),(13,16,53)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((3,4,12),(7,9,29),(4,5,16),(8,10,33)); lvl=3; h,r-ind=1,1
        [3,3]((11,14,45),(8,10,33),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,12),(11,14,45),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,29),(11,14,45),(8,10,33)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,12),(7,9,29),(11,14,45)); lvl=4; h,r-ind=1,1
    [3,3]((5,6,21),(4,5,17),(22,27,92)); lvl=2; h,r-ind=1,1
    [5,3]((5,6,21),(5,6,20),(9,11,36),(22,27,92),(17,21,70)); lvl=2; h,r-ind=1,1
      [4,3]((9,11,37),(13,16,54),(17,21,70),(13,16,53)); lvl=3; h,r-ind=1,1
        [3,3]((26,32,107),(13,16,54),(17,21,70)); lvl=4; h,r-ind=1,1
        [3,3]((13,16,53),(26,32,107),(17,21,70)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,37),(13,16,53),(26,32,107)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,37),(26,32,107),(13,16,54)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,37),(9,11,36),(13,16,53)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,37),(5,6,20),(9,11,36)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,21),(9,11,37),(5,6,20)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,37),(13,16,54),(27,33,112)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,21),(9,11,37),(27,33,112)); lvl=3; h,r-ind=1,1
      [4,3]((5,6,21),(22,27,92),(13,16,54),(27,33,112)); lvl=3; h,r-ind=1,1
        [3,3]((22,27,92),(18,22,75),(13,16,54)); lvl=4; h,r-ind=1,1
        [3,3]((27,33,112),(18,22,75),(13,16,54)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,21),(27,33,112),(18,22,75)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,21),(22,27,92),(18,22,75)); lvl=4; h,r-ind=1,1
    [3,3]((5,6,21),(11,13,44),(5,6,20)); lvl=2; h,r-ind=1,1
  [3,3]((5,6,22),(5,6,21),(4,5,17)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,3),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,3),(3,3,10),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,10),(3,3,11),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
```

22.53 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,8,22)); lvl=0; h,r-ind=22,242
  [4,3]((3,5,12),(5,8,21),(4,6,15),(2,3,8)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,20),(4,6,15),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,21),(5,8,20),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,12),(5,8,21),(5,8,20)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,12),(5,8,20),(4,6,15)); lvl=2; h,r-ind=1,1
  [3,3]((5,8,22),(5,8,21),(2,3,8)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,13),(4,7,17),(3,5,12),(5,8,21)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,17),(6,10,25),(3,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,21),(6,10,25),(3,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,13),(4,7,17),(6,10,25)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,21),(3,5,13),(6,10,25)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(4,7,17),(3,5,12)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,8,22),(3,5,13),(5,8,21)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,5,13),(4,7,17)); lvl=1; h,r-ind=1,1
  [3,3]((5,8,22),(0,1,0),(3,5,13)); lvl=1; h,r-ind=1,1
  [4,3]((4,6,15),(7,9,23),(3,4,10),(2,3,8)); lvl=1; h,r-ind=1,1
    [3,3]((5,7,18),(3,4,10),(7,9,23)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,18),(2,3,8),(7,9,23)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,15),(5,7,18),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,15),(5,7,18),(3,4,10)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(3,4,11),(7,9,23),(2,2,5),(2,3,8)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,8),(4,5,13),(5,6,16),(7,8,21)); lvl=2; h,r-ind=1,1
      [3,3]((7,8,21),(4,5,13),(9,11,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(4,5,13),(9,11,29)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,16),(2,3,8),(9,11,29)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,16),(7,8,21),(9,11,29)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(5,5,13),(5,6,16),(7,8,21)); lvl=2; h,r-ind=1,1
      [3,3]((5,5,13),(7,8,21),(15,16,42)); lvl=3; h,r-ind=1,1
      [4,3]((5,6,16),(3,3,8),(7,8,21),(15,16,42)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,8),(15,16,42),(10,11,29)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,21),(15,16,42),(10,11,29)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,16),(7,8,21),(10,11,29)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,16),(3,3,8),(10,11,29)); lvl=4; h,r-ind=1,1
      [4,3]((1,0,0),(3,3,8),(5,5,13),(15,16,42)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,8,21),(3,3,8),(15,16,42)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,13),(8,8,21),(15,16,42)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(8,8,21),(3,3,8)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,13),(1,0,0),(8,8,21)); lvl=4; h,r-ind=1,1
    [4,3]((5,5,13),(2,2,5),(4,5,13),(7,8,21)); lvl=2; h,r-ind=1,1
      [3,3]((9,10,26),(2,2,5),(4,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,21),(9,10,26),(4,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,5,13),(7,8,21),(9,10,26)); lvl=3; h,r-ind=1,1
      [3,3]((5,5,13),(9,10,26),(2,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(5,5,13),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,5),(7,9,23),(4,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(3,4,11),(5,6,16)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,0,0),(3,4,11),(5,6,16)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((7,9,23),(2,3,8),(4,5,13)); lvl=2; h,r-ind=1,1
  [3,3]((5,8,22),(3,4,11),(2,3,8)); lvl=1; h,r-ind=1,1
  [6,3]((3,5,12),(4,6,15),(3,5,10),(3,4,10),(4,5,12),(2,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,9),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,5,10),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(2,3,7),(3,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,12),(3,5,11),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(4,5,12),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,10),(4,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,15),(2,3,7),(3,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,12),(4,6,15),(2,3,7)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(3,5,12),(3,5,10),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,4),(6,11,21),(3,5,11),(4,7,14)); lvl=2; h,r-ind=1,1
      [3,3]((5,9,18),(6,11,21),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(5,9,18),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,11),(5,9,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(5,9,18),(6,11,21)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,10),(3,5,11),(4,7,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(6,11,21),(3,5,10),(4,7,14)); lvl=2; h,r-ind=1,1
      [3,3]((6,11,21),(5,9,17),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,10),(5,9,17),(4,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,10),(5,9,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(6,11,21),(5,9,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(1,2,4),(0,1,0),(6,11,21)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,4,7),(0,1,0),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,21),(2,4,7),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(6,11,21),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,7),(0,1,0)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,12),(3,5,11)); lvl=2; h,r-ind=1,1
  [5,3]((3,5,10),(1,2,3),(2,3,6),(2,4,5),(4,6,9)); lvl=1; h,r-ind=1,1
    [3,3]((5,9,13),(2,4,5),(3,5,7)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((2,3,5),(5,9,13),(9,16,24),(3,5,8),(3,5,7)); lvl=2; h,r-ind=1,1
      [4,3]((8,14,21),(7,12,18),(3,5,8),(12,20,31)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((10,17,26),(3,5,8),(12,20,31)); lvl=4; h,r-ind=1,1
        [3,3]((10,17,26),(7,12,18),(12,20,31)); lvl=4; h,r-ind=1,1
        [3,3]((8,14,21),(10,17,26),(7,12,18)); lvl=4; h,r-ind=1,1
        [3,3]((8,14,21),(10,17,26),(3,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(3,5,8),(12,20,31)); lvl=3; h,r-ind=1,1
      [5,3]((3,5,7),(4,7,10),(2,3,5),(7,12,18),(12,20,31)); lvl=3; h,r-ind=1,1
        [4,3]((9,15,23),(7,12,18),(13,22,33),(15,25,38)); lvl=4; h,r-ind=1,1
          [3,3]((22,37,56),(13,22,33),(7,12,18)); lvl=5; h,r-ind=1,1
          [3,3]((9,15,23),(22,37,56),(7,12,18)); lvl=5; h,r-ind=1,1
          [3,3]((15,25,38),(22,37,56),(13,22,33)); lvl=5; h,r-ind=1,1
          [3,3]((9,15,23),(15,25,38),(22,37,56)); lvl=5; h,r-ind=1,1
        [4,3]((6,10,15),(4,7,10),(13,22,33),(15,25,38)); lvl=4; h,r-ind=1,1
          [3,3]((19,32,48),(13,22,33),(4,7,10)); lvl=5; h,r-ind=1,1
          [3,3]((6,10,15),(19,32,48),(4,7,10)); lvl=5; h,r-ind=1,1
          [3,3]((15,25,38),(19,32,48),(13,22,33)); lvl=5; h,r-ind=1,1
          [3,3]((6,10,15),(15,25,38),(19,32,48)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,7),(6,10,15),(4,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(9,15,23),(15,25,38)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,15),(2,3,5),(15,25,38)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,7),(6,10,15),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((9,15,23),(12,20,31),(7,12,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(9,15,23),(12,20,31)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,10),(7,12,18),(13,22,33)); lvl=4; h,r-ind=1,1
      [3,3]((9,16,24),(8,14,21),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,13),(9,16,24),(8,14,21)); lvl=3; h,r-ind=1,1
      [4,3]((4,7,10),(5,9,13),(8,14,21),(7,12,18)); lvl=3; h,r-ind=1,1
        [3,3]((12,21,31),(8,14,21),(5,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,10),(12,21,31),(5,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((7,12,18),(12,21,31),(8,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,10),(7,12,18),(12,21,31)); lvl=4; h,r-ind=1,1
    [3,3]((4,6,9),(2,3,5),(3,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,9),(2,3,6),(2,3,5),(3,5,8)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,6),(2,3,5),(5,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,8),(2,3,5),(5,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(2,3,6),(5,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,8),(3,5,9),(5,8,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(3,5,9),(9,16,24),(3,5,8)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,5,9),(4,7,11),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((9,16,24),(4,7,11),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(9,16,24),(4,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,9),(4,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,10),(3,5,9),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,10),(1,2,3),(3,5,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(5,9,13),(9,16,24),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((9,16,24),(6,11,16),(5,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(6,11,16),(5,9,13)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,2,3),(2,4,5),(6,11,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(9,16,24),(6,11,16)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,4,5),(4,6,9)); lvl=1; h,r-ind=1,1
    [6,3]((3,5,7),(3,5,6),(3,4,5),(4,6,7),(5,6,9),(4,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((4,6,7),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(3,5,7),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(4,6,9),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(4,6,7),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(4,5,7),(2,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,7),(5,6,9),(3,4,6),(2,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((7,9,13),(3,4,6),(5,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(7,9,13),(5,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(4,5,7),(7,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(7,9,13),(3,4,6)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,5),(1,1,1),(1,0,0),(5,6,9)); lvl=2; h,r-ind=1,1
      [4,3]((2,2,3),(8,9,12),(1,1,1),(1,0,0)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,3,4),(1,1,1),(8,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,3,4),(8,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,4),(1,0,0),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,3,4),(1,0,0)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,5),(8,9,12),(5,6,8),(1,1,1)); lvl=3; h,r-ind=1,1
        [3,3]((6,7,9),(8,9,12),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(6,7,9),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,9),(1,1,1),(8,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(6,7,9),(1,1,1)); lvl=4; h,r-ind=1,1
      [4,3]((4,5,7),(2,2,3),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
        [3,3]((2,2,3),(8,9,12),(7,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,8),(8,9,12),(7,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(5,6,8),(7,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(2,2,3),(7,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,9),(4,5,7),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(4,5,7),(5,6,8)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,3),(3,4,5),(4,6,7),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(4,6,7),(5,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(4,6,7),(5,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(5,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(5,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(3,5,6),(2,3,3),(4,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,3),(4,6,7),(5,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(4,6,7),(5,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,5,6),(5,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(5,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(1,2,2),(3,5,7),(3,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,9),(3,5,7),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,7,9),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(4,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,9),(3,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(2,2,5),(4,5,12),(2,3,6),(4,6,9)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(4,5,12),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(4,5,12),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,9),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,9),(1,1,2),(2,3,5),(4,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((6,8,13),(2,3,5),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(6,8,13),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,9),(3,4,6),(1,1,2)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,6),(6,8,13),(4,6,9),(2,3,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,11),(4,6,9),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,13),(5,7,11),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(5,7,11),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,13),(3,4,6),(5,7,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(5,6,9),(1,1,2)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((7,9,23),(2,2,5),(3,4,10),(4,5,12)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,15),(2,2,5),(4,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,10),(5,6,15),(4,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,23),(3,4,10),(5,6,15)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,23),(5,6,15),(2,2,5)); lvl=2; h,r-ind=1,1
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22.54 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,9,22)); lvl=0; h,r-ind=22,484
  [4,3]((4,7,17),(5,9,21),(5,8,19),(7,12,27)); lvl=1; h,r-ind=3,1
    [3,3]((6,10,23),(7,12,27),(4,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,12),(6,10,23),(4,7,16)); lvl=2; h,r-ind=1,1
    [4,3]((4,7,17),(3,5,12),(5,9,21),(4,7,16)); lvl=2; h,r-ind=1,1
      [3,3]((8,14,33),(4,7,16),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,17),(8,14,33),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,21),(8,14,33),(4,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,17),(5,9,21),(8,14,33)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,19),(3,5,12),(6,10,23)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,2),(2,3,6),(5,8,19),(7,12,27)); lvl=1; h,r-ind=3,1
    [3,3]((3,5,11),(7,12,27),(6,10,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,5,11),(6,10,23)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,19),(2,3,7),(6,10,23)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,7),(1,1,2),(2,3,6),(3,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((4,6,13),(2,3,6),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(4,6,13),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(3,5,11),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(4,6,13),(3,5,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(5,8,19)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,2,4),(5,9,21),(7,12,27)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((2,3,6),(1,2,3),(1,2,4),(7,12,27)); lvl=1; h,r-ind=1,2
    [3,3]((1,2,3),(1,2,4),(4,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(1,2,4),(4,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(3,5,11),(4,7,14)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((3,5,11),(7,12,27),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,3),(4,7,14)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
  [5,3]((2,2,3),(1,1,2),(2,3,6),(2,4,5),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((5,8,12),(1,2,3),(6,9,14),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((6,9,14),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(1,2,3),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(5,7,11),(6,9,14),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,7,11),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,1,2),(7,10,16)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,3),(1,1,2),(5,7,11),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,8),(5,7,11),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(3,4,6),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
    [6,3]((5,7,11),(3,4,6),(2,3,4),(3,5,7),(5,8,12),(6,9,14)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,7),(4,6,9),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(4,6,9),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(4,6,9),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(4,6,9),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(4,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(2,3,4),(3,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(3,5,7),(5,8,12),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,4),(1,1,1),(2,3,3),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(2,3,4),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=1; h,r-ind=1,1
  [4,3]((6,11,26),(4,8,17),(1,2,4),(5,9,21)); lvl=1; h,r-ind=1,1
    [3,3]((4,8,17),(7,13,30),(1,2,4)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((5,9,21),(7,13,30),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,26),(5,9,21),(7,13,30)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,26),(4,8,17),(7,13,30)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(5,9,22),(6,11,26),(4,8,17)); lvl=1; h,r-ind=1,2
    [3,3]((3,6,13),(5,9,22),(6,11,26)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,17),(3,6,13),(6,11,26)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(4,8,17),(3,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,6,13),(5,9,22)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(4,8,17),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,7,17),(5,8,19)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,9,22),(1,0,0),(4,7,17)); lvl=1; h,r-ind=1,1
  [4,3]((5,9,22),(6,11,26),(4,7,17),(5,9,21)); lvl=1; h,r-ind=1,1
    [3,3]((6,11,26),(5,9,21),(10,18,43)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,17),(5,9,21),(10,18,43)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,22),(6,11,26),(10,18,43)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,17),(5,9,22),(10,18,43)); lvl=2; h,r-ind=1,1
```

22.55 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,10,22)); lvl=0; h,r-ind=22,242
  [4,3]((4,8,17),(5,9,19),(4,7,15),(3,6,13)); lvl=1; h,r-ind=1,1
    [3,3]((8,15,32),(4,7,15),(5,9,19)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,17),(8,15,32),(5,9,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,13),(8,15,32),(4,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,17),(3,6,13),(8,15,32)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(4,8,17),(3,6,13)); lvl=1; h,r-ind=1,1
  [3,3]((5,10,22),(0,1,0),(3,6,13)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,8,17),(1,2,4)); lvl=1; h,r-ind=1,1
  [4,3]((5,10,22),(3,5,11),(4,7,15),(3,6,13)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,11),(4,7,15),(6,11,24)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,13),(4,7,15),(6,11,24)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,22),(3,6,13),(6,11,24)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,22),(3,5,11),(6,11,24)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,2),(3,5,11),(4,7,15)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,13),(1,1,2),(4,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(4,6,13),(4,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(4,6,13),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(1,0,0),(4,6,13)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,2),(5,9,19),(4,7,15),(2,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,15),(5,9,19),(6,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(5,9,19),(6,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(4,7,15),(6,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,1,2),(6,10,21)); lvl=2; h,r-ind=1,1
  [4,3]((4,8,17),(5,9,19),(1,2,4),(2,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,6),(5,9,19),(6,11,23)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,17),(5,9,19),(6,11,23)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(4,8,17),(6,11,23)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,6),(6,11,23)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,4),(2,3,6),(1,2,3)); lvl=1; h,r-ind=1,1
  [5,3]((1,1,2),(2,3,6),(2,2,3),(1,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(2,4,5),(3,5,7),(5,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,10),(2,4,5),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(2,4,5)); lvl=3; h,r-ind=1,1
    [6,3]((3,4,6),(5,7,11),(6,9,14),(2,3,4),(3,5,7),(5,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(4,6,9),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,6,9),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(5,8,12),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,7),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(2,2,3),(3,4,6),(5,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(4,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(1,1,2),(4,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((6,9,14),(2,3,5),(1,2,3),(5,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(1,2,3),(7,11,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(5,7,11),(6,9,14),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,7,11),(7,10,16)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,3,5),(1,1,2),(7,10,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(3,5,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,4),(1,1,1),(2,3,3),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(2,3,4),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
```

22.56 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,11,22)); lvl=0; h,r-ind=22,44
  [3,3]((1,2,4),(4,10,17),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,10,17),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,11,22),(0,1,0),(4,10,17)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((1,2,4),(1,3,3),(2,5,5),(1,2,3),(1,3,4)); lvl=1; h,r-ind=1,1
    [5,3]((1,3,4),(1,2,4),(3,8,10),(4,10,13),(3,7,10)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(4,10,13),(3,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,7),(3,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(2,5,7),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,10),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,4),(2,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,6),(4,10,13),(3,7,10)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,6),(4,10,13),(5,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,10),(4,10,13),(5,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,6),(5,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,10),(1,2,3),(5,12,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,5),(1,2,3),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(3,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(2,5,6),(3,8,10),(4,10,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,6),(4,10,13),(5,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(4,10,13),(5,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,6),(5,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(1,3,3),(5,13,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,3),(3,8,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,4),(1,2,3),(2,3,6)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,5,5),(1,2,3),(2,3,6)); lvl=1; h,r-ind=1,1
    [5,3]((2,5,5),(1,2,2),(1,2,3),(6,10,15),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,10),(6,10,15),(3,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((5,9,12),(4,7,10),(6,11,15),(3,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((6,11,15),(4,7,10),(9,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,7),(4,7,10),(9,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,12),(3,5,7),(9,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,12),(6,11,15),(9,16,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(5,9,12),(3,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(5,9,12),(6,11,15),(2,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((5,9,12),(6,11,15),(7,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(6,11,15),(7,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(7,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(5,9,12),(7,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(1,2,3),(6,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(6,11,15),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,15),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
    [5,3]((1,1,2),(2,3,5),(2,3,4),(6,10,15),(3,5,7)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,5),(5,8,12),(6,9,14),(9,14,21)); lvl=3; h,r-ind=1,1
        [3,3]((9,14,21),(5,8,12),(11,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(5,8,12),(11,17,26)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((6,9,14),(2,3,5),(11,17,26)); lvl=4; h,r-ind=1,1
      [3,3]((6,9,14),(9,14,21),(11,17,26)); lvl=4; h,r-ind=1,1
    [5,3]((1,1,2),(7,11,16),(2,3,4),(6,9,14),(9,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(2,3,4),(7,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,9),(9,14,21),(7,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((6,9,14),(4,6,9),(9,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(6,9,14),(4,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(4,6,9),(2,3,4)); lvl=4; h,r-ind=1,1
    [4,3]((7,11,16),(3,5,7),(5,8,12),(9,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(5,8,12),(12,19,28)); lvl=4; h,r-ind=1,1
      [3,3]((9,14,21),(5,8,12),(12,19,28)); lvl=4; h,r-ind=1,1
      [3,3]((7,11,16),(9,14,21),(12,19,28)); lvl=4; h,r-ind=1,1
      [3,3]((7,11,16),(3,5,7),(12,19,28)); lvl=4; h,r-ind=1,1
    [3,3]((7,11,16),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(6,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(6,10,15),(5,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,7),(6,10,15),(5,8,12)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,2),(2,3,3),(2,3,4),(3,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(3,5,6),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,7),(3,5,6),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(3,5,7),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,2),(2,3,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(4,5,7),(2,3,3),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,7),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(4,5,7),(3,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(4,5,7),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(1,1,2),(4,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(1,1,2)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,6),(2,3,5),(1,2,3),(6,10,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(6,10,15),(3,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(6,10,15),(3,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,5),(3,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(3,5,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,2),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,0,0),(2,5,5)); lvl=1; h,r-ind=5,5; optimized-h
[3,3]((5,11,22),(1,2,4),(4,10,17)); lvl=1; h,r-ind=3,3; optimized-h
```

22.57 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,14,22)); lvl=0; h,r-ind=22,242
  [3,3]((1,2,3),(1,0,0),(3,7,11)); lvl=1; h,r-ind=1,1
  [4,3]((5,14,22),(5,13,20),(1,2,3),(3,7,11)); lvl=1; h,r-ind=1,1
    [3,3]((6,16,25),(5,13,20),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,11),(6,16,25),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((5,14,22),(3,7,11),(6,16,25)); lvl=2; h,r-ind=1,1
    [3,3]((5,14,22),(6,16,25),(5,13,20)); lvl=2; h,r-ind=1,1
  [3,3]((5,14,22),(5,13,20),(4,11,17)); lvl=1; h,r-ind=1,1
  [6,3]((5,14,21),(4,11,16),(4,10,15),(5,13,19),(5,13,20),(4,11,17)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,12),(4,11,16),(5,14,21)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,17),(3,8,12),(5,14,21)); lvl=2; h,r-ind=1,1
    [3,3]((5,13,20),(4,11,17),(3,8,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,10,15),(5,13,20),(3,8,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,13,19),(3,8,12),(4,11,16)); lvl=2; h,r-ind=1,1
    [3,3]((4,10,15),(5,13,19),(3,8,12)); lvl=2; h,r-ind=1,1
  [4,3]((5,14,22),(5,14,21),(7,20,30),(4,11,17)); lvl=1; h,r-ind=1,1
    [4,3]((7,20,30),(6,17,26),(5,14,21),(15,42,64)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,14,21),(15,42,64),(11,31,47)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,26),(15,42,64),(11,31,47)); lvl=3; h,r-ind=1,1
      [3,3]((7,20,30),(5,14,21),(11,31,47)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,26),(7,20,30),(11,31,47)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,17),(5,14,21),(15,42,64)); lvl=2; h,r-ind=1,1
    [4,3]((5,14,22),(4,11,17),(6,17,26),(15,42,64)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,11,17),(10,28,43),(15,42,64)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,26),(10,28,43),(15,42,64)); lvl=3; h,r-ind=1,1
      [3,3]((5,14,22),(6,17,26),(10,28,43)); lvl=3; h,r-ind=1,1
      [3,3]((5,14,22),(4,11,17),(10,28,43)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,7),(1,3,4),(4,11,16),(5,13,19)); lvl=1; h,r-ind=1,1
    [3,3]((6,16,23),(4,11,16),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(6,16,23),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((5,13,19),(6,16,23),(4,11,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(5,13,19),(6,16,23)); lvl=2; h,r-ind=1,1
  [5,3]((4,12,17),(5,14,21),(7,20,30),(1,3,4),(4,11,16)); lvl=1; h,r-ind=1,1
    [3,3]((13,37,55),(5,14,21),(7,20,30)); lvl=2; h,r-ind=1,1
    [4,3]((14,40,59),(9,26,38),(13,37,55),(7,20,30)); lvl=2; h,r-ind=1,1
```

```
      [4,3]((14,40,59),(35,100,148),(8,23,34),(9,26,38)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,23,34),(22,63,93),(35,100,148)); lvl=4; h,r-ind=1,1
        [3,3]((14,40,59),(22,63,93),(35,100,148)); lvl=4; h,r-ind=1,1
        [3,3]((9,26,38),(14,40,59),(22,63,93)); lvl=4; h,r-ind=1,1
        [3,3]((9,26,38),(8,23,34),(22,63,93)); lvl=4; h,r-ind=1,1
      [3,3]((13,37,55),(14,40,59),(35,100,148)); lvl=3; h,r-ind=1,1
      [4,3]((13,37,55),(35,100,148),(7,20,30),(8,23,34)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,23,34),(35,100,148),(21,60,89)); lvl=4; h,r-ind=1,1
        [3,3]((13,37,55),(35,100,148),(21,60,89)); lvl=4; h,r-ind=1,1
        [3,3]((7,20,30),(8,23,34),(21,60,89)); lvl=4; h,r-ind=1,1
        [3,3]((13,37,55),(7,20,30),(21,60,89)); lvl=4; h,r-ind=1,1
    [3,3]((4,12,17),(9,26,38),(7,20,30)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((14,40,59),(13,37,55),(6,17,25),(5,14,21)); lvl=2; h,r-ind=1,1
      [3,3]((19,54,80),(5,14,21),(13,37,55)); lvl=3; h,r-ind=1,1
      [3,3]((14,40,59),(19,54,80),(13,37,55)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,25),(14,40,59),(19,54,80)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,25),(19,54,80),(5,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((6,17,25),(4,11,16),(5,14,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(6,17,25),(4,11,16)); lvl=2; h,r-ind=1,1
    [4,3]((14,40,59),(9,26,38),(1,3,4),(6,17,25)); lvl=2; h,r-ind=1,1
      [3,3]((15,43,63),(9,26,38),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,25),(15,43,63),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((14,40,59),(6,17,25),(15,43,63)); lvl=3; h,r-ind=1,1
      [3,3]((14,40,59),(15,43,63),(9,26,38)); lvl=3; h,r-ind=1,1
    [3,3]((4,12,17),(9,26,38),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(4,12,17),(1,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((5,14,22),(0,1,0),(4,12,17),(7,20,30)); lvl=1; h,r-ind=1,1
    [3,3]((3,9,13),(0,1,0),(4,12,17)); lvl=2; h,r-ind=1,1
    [3,3]((7,20,30),(3,9,13),(4,12,17)); lvl=2; h,r-ind=1,1
    [3,3]((6,17,26),(7,20,30),(3,9,13)); lvl=2; h,r-ind=1,1
    [3,3]((5,14,22),(6,17,26),(3,9,13)); lvl=2; h,r-ind=1,1
    [3,3]((5,14,22),(3,9,13),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((4,10,15),(5,13,20),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,7),(4,10,15),(5,13,19),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((4,10,15),(5,13,19),(6,15,22)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(5,13,19),(6,15,22)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(6,15,22)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(4,10,15),(6,15,22)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,4),(1,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,4),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((2,3,4),(2,5,7),(1,2,2),(2,5,5),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,9),(2,5,7),(2,5,6)); lvl=2; h,r-ind=1,1
    [6,3]((3,7,9),(5,11,13),(3,7,8),(5,11,14),(6,13,16),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,11),(5,11,14),(6,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,11),(5,11,13),(6,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,11),(3,7,8),(5,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(4,9,11),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(4,9,11),(5,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,5,6),(4,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,8),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((5,11,13),(3,7,8),(2,5,5),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,8),(2,5,5),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(3,7,8),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,11,13),(4,9,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,5),(5,11,13),(6,13,16),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((6,13,16),(7,15,18),(5,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(7,15,18),(5,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,16),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(7,15,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,4,5),(5,11,14),(6,13,16)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,14),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(7,15,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(3,7,9),(5,11,14),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,12),(3,7,9),(5,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,9,12),(5,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,12),(2,5,7),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,9,12),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(1,2,3),(2,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,5,7),(2,5,5),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(1,3,3),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,3),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,4),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(2,5,6),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,5),(1,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=1; h,r-ind=1,1
```

22.58 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,16,22)); lvl=0; h,r-ind=22,242
  [3,3]((1,0,0),(3,8,11),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,16,22),(3,8,11),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,5),(1,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((2,4,5),(1,2,2),(2,5,5),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(1,2,2),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,6),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,3,4)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(4,13,17),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,16,22),(4,13,17),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,16,22),(0,1,0),(4,13,17)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,5),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

22.59 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,18,22)); lvl=0; h,r-ind=22,242
  [3,3]((0,1,0),(1,1,1),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [6,3]((5,16,19),(3,6,7),(4,13,15),(7,23,27),(1,1,1),(2,5,5)); lvl=1; h,r-ind=1,1
    [4,3]((2,6,7),(3,9,10),(2,5,5),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((4,11,12),(3,9,10),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,11,12),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(1,2,2),(4,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(4,11,12),(3,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,7),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(3,6,7),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(4,11,13),(3,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((5,16,19),(2,6,7),(4,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(4,13,15),(3,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(7,23,27),(4,13,15)); lvl=2; h,r-ind=1,1
    [3,3]((5,16,19),(2,6,7),(7,23,27)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,6,7),(1,1,1)); lvl=1; h,r-ind=1,1
  [5,3]((1,0,0),(3,9,11),(5,16,19),(3,6,7),(3,10,12)); lvl=1; h,r-ind=1,1
    [3,3]((3,10,12),(2,5,6),(3,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,5,6),(3,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,12),(2,5,6),(5,16,19)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(4,11,13),(5,16,19)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(3,6,7),(4,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,5,6),(3,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((5,18,22),(3,9,11),(3,10,12)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((4,13,15),(2,7,8),(0,1,0),(2,5,5)); lvl=1; h,r-ind=2,1
    [3,3]((1,3,3),(0,1,0),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,7,8),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((4,13,15),(1,3,3),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((4,13,15),(3,9,10),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,5),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,10),(1,3,3),(2,5,5)); lvl=2; h,r-ind=1,1
  [4,3]((5,17,20),(4,13,15),(7,23,27),(2,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((7,23,27),(4,13,15),(9,30,35)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,8),(4,13,15),(9,30,35)); lvl=2; h,r-ind=1,1
    [3,3]((5,17,20),(2,7,8),(9,30,35)); lvl=2; h,r-ind=1,1
    [3,3]((5,17,20),(7,23,27),(9,30,35)); lvl=2; h,r-ind=1,1
  [5,3]((5,17,20),(3,11,13),(4,15,17),(2,7,8),(7,25,30)); lvl=1; h,r-ind=1,1
    [4,3]((2,7,8),(13,46,54),(16,57,67),(5,18,21)); lvl=2; h,r-ind=1,1
      [3,3]((18,64,75),(16,57,67),(13,46,54)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(18,64,75),(13,46,54)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,21),(18,64,75),(16,57,67)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(5,18,21),(18,64,75)); lvl=3; h,r-ind=1,1
    [4,3]((3,11,13),(14,50,59),(16,57,67),(5,18,21)); lvl=2; h,r-ind=1,1
      [3,3]((19,68,80),(16,57,67),(14,50,59)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,13),(19,68,80),(14,50,59)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,21),(19,68,80),(16,57,67)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,13),(5,18,21),(19,68,80)); lvl=3; h,r-ind=1,1
    [3,3]((4,15,17),(2,7,8),(5,18,21)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,13),(4,15,17),(5,18,21)); lvl=2; h,r-ind=1,1
    [6,3]((6,21,25),(9,32,38),(14,50,59),(8,28,33),(13,46,54),(16,57,67)); lvl=2; h,r-ind=1,1
      [3,3]((11,39,46),(16,57,67),(14,50,59)); lvl=3; h,r-ind=1,1
      [3,3]((11,39,46),(9,32,38),(14,50,59)); lvl=3; h,r-ind=1,1
      [3,3]((6,21,25),(11,39,46),(9,32,38)); lvl=3; h,r-ind=1,1
      [3,3]((11,39,46),(16,57,67),(13,46,54)); lvl=3; h,r-ind=1,1
      [3,3]((11,39,46),(13,46,54),(8,28,33)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((6,21,25),(11,39,46),(8,28,33)); lvl=3; h,r-ind=1,1
    [3,3]((7,25,30),(6,21,25),(9,32,38)); lvl=2; h,r-ind=1,1
    [4,3]((3,11,13),(7,25,30),(9,32,38),(14,50,59)); lvl=2; h,r-ind=1,1
      [3,3]((12,43,51),(9,32,38),(7,25,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,13),(12,43,51),(7,25,30)); lvl=3; h,r-ind=1,1
      [3,3]((14,50,59),(3,11,13),(12,43,51)); lvl=3; h,r-ind=1,1
      [3,3]((14,50,59),(12,43,51),(9,32,38)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,8),(5,17,20),(8,28,33),(13,46,54)); lvl=2; h,r-ind=1,1
      [3,3]((10,35,41),(5,17,20),(8,28,33)); lvl=3; h,r-ind=1,1
      [3,3]((13,46,54),(10,35,41),(8,28,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(13,46,54),(10,35,41)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(10,35,41),(5,17,20)); lvl=3; h,r-ind=1,1
    [3,3]((6,21,25),(5,17,20),(8,28,33)); lvl=2; h,r-ind=1,1
  [3,3]((5,18,22),(3,11,13),(7,25,30)); lvl=1; h,r-ind=1,1
  [4,3]((5,18,22),(3,10,12),(5,17,20),(7,25,30)); lvl=1; h,r-ind=2,1
    [4,3]((4,14,17),(6,21,25),(3,10,12),(5,17,20)); lvl=2; h,r-ind=1,1
      [3,3]((9,31,37),(5,17,20),(6,21,25)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,17),(9,31,37),(6,21,25)); lvl=3; h,r-ind=1,1
      [3,3]((9,31,37),(3,10,12),(5,17,20)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,17),(9,31,37),(3,10,12)); lvl=3; h,r-ind=1,1
    [4,3]((5,18,22),(4,14,17),(7,25,30),(6,21,25)); lvl=2; h,r-ind=1,1
      [3,3]((4,14,17),(6,21,25),(11,39,47)); lvl=3; h,r-ind=1,1
      [3,3]((7,25,30),(6,21,25),(11,39,47)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,22),(4,14,17),(11,39,47)); lvl=3; h,r-ind=1,1
      [3,3]((7,25,30),(5,18,22),(11,39,47)); lvl=3; h,r-ind=1,1
  [4,3]((5,16,19),(3,10,12),(5,17,20),(7,23,27)); lvl=1; h,r-ind=1,1
    [3,3]((5,17,20),(3,10,12),(10,33,39)); lvl=2; h,r-ind=1,1
    [3,3]((5,16,19),(3,10,12),(10,33,39)); lvl=2; h,r-ind=1,1
    [3,3]((7,23,27),(5,16,19),(10,33,39)); lvl=2; h,r-ind=1,1
    [3,3]((7,23,27),(5,17,20),(10,33,39)); lvl=2; h,r-ind=1,1
  [3,3]((4,15,17),(2,7,8),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,11,13),(4,15,17),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,18,22),(3,11,13),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

22.60 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,20,22)); lvl=0; h,r-ind=22,242
  [5,3]((5,20,22),(3,10,11),(4,12,13),(4,14,15),(6,23,25)); lvl=1; h,r-ind=1,1
    [3,3]((3,11,12),(4,14,15),(4,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((4,12,13),(3,11,12),(4,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,11),(4,12,13),(3,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((6,23,25),(3,11,12),(4,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((5,20,22),(6,23,25),(3,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,11),(5,20,22),(3,11,12)); lvl=2; h,r-ind=1,1
  [4,3]((3,12,13),(4,16,17),(4,14,15),(6,23,25)); lvl=1; h,r-ind=1,1
    [4,3]((3,12,13),(10,38,41),(4,16,17),(4,15,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,27,29),(4,15,16),(10,38,41)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,13),(7,27,29),(10,38,41)); lvl=3; h,r-ind=1,1
      [3,3]((4,16,17),(7,27,29),(4,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,13),(4,16,17),(7,27,29)); lvl=3; h,r-ind=1,1
    [3,3]((10,38,41),(4,14,15),(4,15,16)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((10,38,41),(6,23,25),(4,14,15)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,12,13),(10,38,41),(6,23,25)); lvl=2; h,r-ind=1,1
  [3,3]((5,20,22),(3,12,13),(6,23,25)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,12,13),(4,16,17)); lvl=1; h,r-ind=1,1
  [3,3]((5,20,22),(0,1,0),(3,12,13)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,16,17),(1,4,4)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,5),(1,1,1),(4,12,13),(4,14,15)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,2),(1,1,1),(4,13,14),(4,12,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(4,12,13),(5,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,14),(4,12,13),(5,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(5,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,14),(1,2,2),(5,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,14,15),(1,2,2),(4,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((4,14,15),(2,5,5),(1,2,2)); lvl=2; h,r-ind=1,1
  [4,3]((4,16,17),(1,4,4),(2,5,5),(4,14,15)); lvl=1; h,r-ind=1,1
    [3,3]((4,14,15),(1,3,3),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,14,15),(4,15,16),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((4,16,17),(4,15,16),(1,4,4),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(4,15,16),(5,19,20)); lvl=3; h,r-ind=1,1
      [3,3]((4,16,17),(4,15,16),(5,19,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(4,16,17),(5,19,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(5,19,20)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

```
  [4,3]((1,0,0),(3,10,11),(1,1,1),(4,12,13)); lvl=1; h,r-ind=1,1
    [3,3]((4,11,12),(3,10,11),(4,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,12),(1,1,1),(4,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(4,11,12),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(4,11,12),(3,10,11)); lvl=2; h,r-ind=1,1
```

22.61 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,21,22)); lvl=0; h,r-ind=22,484
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((5,21,22),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,21,22),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,4,4),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,17,17),(0,1,0),(1,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,21,22),(4,17,17),(0,1,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((5,21,22),(4,17,17),(1,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,21,22),(1,4,4),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
```

22.62 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,7,22)); lvl=0; h,r-ind=22,242
  [6,3]((3,4,11),(2,3,7),(5,6,18),(3,4,10),(6,7,21),(5,6,17)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,14),(5,6,17),(6,7,21)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,14),(5,6,18),(6,7,21)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,11),(4,5,14),(5,6,18)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,11),(4,5,14)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,14),(3,4,10),(5,6,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(4,5,14),(3,4,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,3),(6,7,21),(5,6,17)); lvl=1; h,r-ind=1,1
  [3,3]((6,7,22),(1,1,3),(6,7,21)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(6,7,22),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,3),(3,4,10),(5,6,17)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,3),(3,4,10)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,2)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((6,7,22),(5,6,18),(6,7,21)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,7),(3,4,10)); lvl=1; h,r-ind=1,1
  [3,3]((6,7,22),(3,4,11),(5,6,18)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,11),(2,3,7)); lvl=1; h,r-ind=1,1
```

22.63 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,11,22)); lvl=0; h,r-ind=22,22
  [4,3]((3,6,10),(1,2,2),(1,1,2),(3,5,10)); lvl=1; h,r-ind=4,2
    [3,3]((1,2,3),(1,1,2),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,10),(1,2,3),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,10),(3,6,10),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((3,6,11),(6,11,22),(3,6,10),(3,5,10)); lvl=1; h,r-ind=3,1
    [3,3]((2,4,7),(9,16,32),(3,5,10)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((2,4,7),(3,6,10),(3,5,10)); lvl=2; h,r-ind=1,1
    [4,3]((3,6,11),(2,4,7),(6,11,22),(9,16,32)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,7),(5,9,18),(9,16,32)); lvl=3; h,r-ind=1,1
      [3,3]((10,19,36),(2,4,7),(5,9,18)); lvl=3; h,r-ind=1,1
      [4,3]((3,6,11),(10,19,36),(6,11,22),(5,9,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((10,19,36),(8,15,29),(5,9,18)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,22),(8,15,29),(5,9,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,11),(10,19,36),(8,15,29)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,22),(3,6,11),(8,15,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,11),(10,19,36),(2,4,7)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(3,6,11),(3,6,10)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(3,6,10),(1,2,2)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,0,0),(1,2,2),(1,1,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

22.64 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,13,22)); lvl=0; h,r-ind=22,242
  [3,3]((1,0,0),(1,2,2),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((3,7,10),(1,2,3),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,10),(0,1,0),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,10),(1,2,3),(1,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,7),(3,7,10),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,7),(3,7,11),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,10),(5,11,17),(1,2,3)); lvl=1; h,r-ind=1,1
  [6,3]((2,5,7),(3,7,10),(5,11,17),(5,11,18),(3,7,11),(6,13,21)); lvl=1; h,r-ind=1,1
    [3,3]((4,9,14),(6,13,21),(5,11,17)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,14),(3,7,10),(5,11,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(4,9,14),(3,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,14),(5,11,18),(6,13,21)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,14),(3,7,11),(5,11,18)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(4,9,14),(3,7,11)); lvl=2; h,r-ind=1,1
  [3,3]((6,13,22),(5,11,18),(3,7,11)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(1,2,2),(2,3,4),(2,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,1),(5,6,8),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(5,6,8),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,1),(2,2,3),(5,6,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,3,4),(1,1,1),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,3,4),(1,1,1)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(3,5,8),(2,3,5),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(3,5,8),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(3,5,8),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,5),(4,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(6,13,22),(2,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,8),(1,2,3),(2,3,4),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,8),(1,2,3),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(3,5,8),(3,4,6)); lvl=2; h,r-ind=1,1
  [4,3]((5,9,15),(3,5,8),(6,11,18),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((6,11,18),(3,5,8),(8,14,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(3,5,8),(8,14,23)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,15),(6,11,18),(8,14,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(5,9,15),(8,14,23)); lvl=2; h,r-ind=1,1
  [3,3]((6,13,22),(5,9,15),(2,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((4,8,13),(3,5,8),(6,11,18),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,8),(6,11,18),(7,13,21)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,13),(6,11,18),(7,13,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(4,8,13),(7,13,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,8),(7,13,21)); lvl=2; h,r-ind=1,1
  [5,3]((5,11,17),(8,17,28),(6,13,21),(4,8,13),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((10,21,34),(1,2,3),(4,8,13)); lvl=2; h,r-ind=1,1
    [3,3]((8,17,28),(10,21,34),(4,8,13)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((10,21,34),(16,34,55),(7,15,24),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((7,15,24),(16,34,55),(17,36,58)); lvl=3; h,r-ind=1,1
      [3,3]((10,21,34),(16,34,55),(17,36,58)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(10,21,34),(17,36,58)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(7,15,24),(17,36,58)); lvl=3; h,r-ind=1,1
    [3,3]((7,15,24),(5,11,17),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,21),(7,15,24),(5,11,17)); lvl=2; h,r-ind=1,1
    [4,3]((8,17,28),(10,21,34),(16,34,55),(15,32,52)); lvl=2; h,r-ind=1,1
      [4,3]((9,19,31),(40,85,138),(16,34,55),(10,21,34)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((40,85,138),(25,53,86),(16,34,55)); lvl=4; h,r-ind=1,1
        [3,3]((10,21,34),(25,53,86),(16,34,55)); lvl=4; h,r-ind=1,1
        [3,3]((9,19,31),(10,21,34),(25,53,86)); lvl=4; h,r-ind=1,1
        [3,3]((9,19,31),(40,85,138),(25,53,86)); lvl=4; h,r-ind=1,1
      [3,3]((15,32,52),(40,85,138),(16,34,55)); lvl=3; h,r-ind=1,1
      [4,3]((9,19,31),(8,17,28),(15,32,52),(40,85,138)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,17,28),(24,51,83),(15,32,52)); lvl=4; h,r-ind=1,1
        [3,3]((40,85,138),(24,51,83),(15,32,52)); lvl=4; h,r-ind=1,1
        [3,3]((9,19,31),(40,85,138),(24,51,83)); lvl=4; h,r-ind=1,1
        [3,3]((9,19,31),(8,17,28),(24,51,83)); lvl=4; h,r-ind=1,1
    [4,3]((16,34,55),(15,32,52),(6,13,21),(7,15,24)); lvl=2; h,r-ind=1,1
      [3,3]((22,47,76),(15,32,52),(6,13,21)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,24),(22,47,76),(6,13,21)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((16,34,55),(7,15,24),(22,47,76)); lvl=3; h,r-ind=1,1
      [3,3]((16,34,55),(22,47,76),(15,32,52)); lvl=3; h,r-ind=1,1
    [3,3]((8,17,28),(15,32,52),(6,13,21)); lvl=2; h,r-ind=1,1
  [4,3]((6,13,22),(5,11,18),(8,17,28),(6,13,21)); lvl=1; h,r-ind=1,1
    [3,3]((6,13,21),(5,11,18),(18,39,64)); lvl=2; h,r-ind=1,1
    [4,3]((7,15,25),(6,13,22),(5,11,18),(18,39,64)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((12,26,43),(6,13,22),(5,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((18,39,64),(12,26,43),(5,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,25),(18,39,64),(12,26,43)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,25),(12,26,43),(6,13,22)); lvl=3; h,r-ind=1,1
    [4,3]((8,17,28),(7,15,25),(6,13,21),(18,39,64)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,13,21),(13,28,46),(18,39,64)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,25),(13,28,46),(18,39,64)); lvl=3; h,r-ind=1,1
      [3,3]((8,17,28),(7,15,25),(13,28,46)); lvl=3; h,r-ind=1,1
      [3,3]((8,17,28),(6,13,21),(13,28,46)); lvl=3; h,r-ind=1,1
  [5,3]((6,13,22),(5,9,15),(8,17,28),(4,8,13),(6,11,18)); lvl=1; h,r-ind=1,2
    [3,3]((3,6,10),(4,8,13),(6,11,18)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,15),(3,6,10),(6,11,18)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,22),(5,9,15),(3,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((8,17,28),(3,6,10),(4,8,13)); lvl=2; h,r-ind=1,1
    [3,3]((8,17,28),(7,15,25),(3,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,22),(7,15,25),(3,6,10)); lvl=2; h,r-ind=1,1
```

22.65 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,17,22)); lvl=0; h,r-ind=22,242
  [3,3]((2,4,5),(1,0,0),(3,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((6,17,22),(1,0,0),(3,7,9)); lvl=1; h,r-ind=1,1
  [5,3]((4,11,14),(3,8,10),(2,4,5),(8,21,27),(3,7,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(9,22,28),(3,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((13,33,42),(7,18,23),(9,22,28),(3,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((7,18,23),(3,7,9),(16,40,51)); lvl=3; h,r-ind=1,1
      [3,3]((9,22,28),(3,7,9),(16,40,51)); lvl=3; h,r-ind=1,1
      [3,3]((13,33,42),(7,18,23),(16,40,51)); lvl=3; h,r-ind=1,1
      [3,3]((9,22,28),(13,33,42),(16,40,51)); lvl=3; h,r-ind=1,1
    [3,3]((8,21,27),(7,18,23),(3,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,14),(8,21,27),(7,18,23)); lvl=2; h,r-ind=1,1
    [4,3]((4,11,14),(10,26,33),(13,33,42),(7,18,23)); lvl=2; h,r-ind=1,1
      [3,3]((17,44,56),(13,33,42),(10,26,33)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,14),(17,44,56),(10,26,33)); lvl=3; h,r-ind=1,1
      [3,3]((7,18,23),(17,44,56),(13,33,42)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,14),(7,18,23),(17,44,56)); lvl=3; h,r-ind=1,1
    [5,3]((10,26,33),(13,33,42),(3,8,10),(2,4,5),(9,22,28)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,5),(6,15,19),(9,22,28)); lvl=3; h,r-ind=1,1
      [3,3]((13,33,42),(6,15,19),(9,22,28)); lvl=3; h,r-ind=1,1
      [3,3]((10,26,33),(13,33,42),(6,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(2,4,5),(6,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((10,26,33),(3,8,10),(6,15,19)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,14),(10,26,33),(3,8,10)); lvl=2; h,r-ind=1,1
  [3,3]((6,17,22),(8,21,27),(3,7,9)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,2),(1,1,1),(3,8,10),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(5,10,12),(2,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,6),(3,8,10),(5,10,12),(2,4,5)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,10,12),(4,9,11),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(4,9,11),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,8,10),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(5,10,12),(4,9,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(2,5,6),(1,1,1),(5,10,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,6,7),(2,5,6),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(1,1,1),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,6,7),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,6,7),(2,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(3,8,10)); lvl=1; h,r-ind=4,8; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((6,17,22),(4,11,14),(8,21,27)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(3,9,11),(4,11,14),(3,8,10)); lvl=1; h,r-ind=1,2
    [3,3]((3,9,11),(4,11,14),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,10),(4,11,14),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,8,10),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,9,11),(2,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((6,17,22),(3,9,11),(4,11,14)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,1,1),(2,4,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
```

22.66 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,21,22)); lvl=0; h,r-ind=22,242
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((6,21,22),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(6,21,22),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((6,21,22),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(3,10,10)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,11,11),(3,10,10)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((6,21,22),(3,11,11),(3,10,10)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((6,21,22),(1,3,3),(3,10,10)); lvl=1; h,r-ind=1,1
```

22.67 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,7,22)); lvl=0; h,r-ind=22,484
  [3,3]((1,1,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(1,0,0)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((7,7,22),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((7,7,22),(0,1,0),(1,1,3)); lvl=1; h,r-ind=1,1
```

22.68 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,10,22)); lvl=0; h,r-ind=22,242
  [3,3]((1,1,2),(5,7,15),(3,4,8)); lvl=1; h,r-ind=1,1
  [4,3]((4,6,11),(3,5,9),(5,7,15),(3,4,8)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,8),(2,3,6),(5,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(2,3,6),(9,13,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(4,6,11),(9,13,25)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,11),(3,5,9),(2,3,6),(9,13,25)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,9,17),(2,3,6),(3,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,11),(6,9,17),(3,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((9,13,25),(6,9,17),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,11),(9,13,25),(6,9,17)); lvl=3; h,r-ind=1,1
  [4,3]((4,6,11),(3,5,9),(1,2,3),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,14),(1,2,3),(3,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,11),(5,8,14),(3,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(5,8,14),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,11),(2,3,5),(5,8,14)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,3),(2,3,5),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,5),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((7,10,22),(0,1,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,10,22),(3,5,9),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,10,22),(3,5,9),(5,7,15)); lvl=1; h,r-ind=4,4; optimized-h
  [4,3]((4,6,11),(2,3,5),(1,1,2),(3,4,8)); lvl=1; h,r-ind=1,1
    [3,3]((5,7,13),(1,1,2),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,11),(5,7,13),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(4,6,11),(5,7,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(5,7,13),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,5),(1,2,2),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(1,1,2),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(1,2,2),(2,2,3)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,1),(2,2,3),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
  [4,3]((7,10,22),(4,5,11),(1,1,2),(5,7,15)); lvl=1; h,r-ind=1,1
    [3,3]((8,11,24),(4,5,11),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,15),(8,11,24),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((7,10,22),(5,7,15),(8,11,24)); lvl=2; h,r-ind=1,1
    [3,3]((7,10,22),(8,11,24),(4,5,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(4,5,11),(1,1,2)); lvl=1; h,r-ind=1,1
```

22.69 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,11,22)); lvl=0; h,r-ind=22,44
  [4,3]((1,2,3),(1,2,2),(1,1,2),(3,4,8)); lvl=1; h,r-ind=1,2
    [3,3]((2,3,5),(1,1,2),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(2,3,5),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,4,8),(2,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,6),(1,2,3),(3,4,8)); lvl=1; h,r-ind=1,1
  [3,3]((7,11,22),(2,3,6),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((7,11,22),(0,1,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(1,0,0),(1,1,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
```

22.70 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,12,22)); lvl=0; h,r-ind=22,242
  [3,3]((2,3,5),(4,7,12),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,12,22),(4,7,12),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(7,12,22),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,2),(4,5,8),(2,3,5),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((4,5,8),(5,7,10),(2,3,5),(7,11,17)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((2,3,5),(11,16,25),(4,6,9),(7,11,17)); lvl=3; h,r-ind=1,3
        [3,3]((11,16,25),(6,9,14),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((7,11,17),(6,9,14),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(7,11,17),(6,9,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(11,16,25),(6,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(11,16,25),(4,6,9)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((3,4,6),(5,7,10),(4,6,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,5),(4,5,8),(3,4,6),(11,16,25)); lvl=3; h,r-ind=1,3
        [3,3]((5,7,11),(3,4,6),(4,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(5,7,11),(4,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((11,16,25),(5,7,11),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(11,16,25),(5,7,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(1,2,3),(5,7,10),(7,11,17)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((4,6,9),(8,13,19),(1,2,3),(7,11,17)); lvl=3; h,r-ind=1,3
        [3,3]((5,8,12),(1,2,3),(8,13,19)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(5,8,12),(8,13,19)); lvl=4; h,r-ind=1,1
        [3,3]((7,11,17),(5,8,12),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(7,11,17),(5,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(4,6,9),(8,13,19)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,3,4),(4,6,9),(5,7,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(2,3,4),(8,13,19),(1,2,3)); lvl=3; h,r-ind=1,3
        [3,3]((2,3,4),(3,5,7),(8,13,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(3,5,7),(8,13,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,2,3),(3,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((5,7,12),(4,5,8),(3,3,5),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,3,5),(4,5,8),(5,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(4,5,8),(5,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,12),(2,3,5),(5,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,12),(3,3,5),(5,6,10)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(1,2,2),(4,5,8),(3,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((5,7,10),(2,2,3),(4,5,8)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,3,5),(2,2,3),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,3,5),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(1,1,1),(5,7,10),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,8),(2,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(5,6,8),(2,3,4),(1,1,1)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(3,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,8),(2,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(5,7,10),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((5,7,12),(2,3,5),(3,5,9),(4,7,12)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,14),(2,3,5),(4,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,9),(5,8,14),(4,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,12),(5,8,14),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,9),(5,7,12),(5,8,14)); lvl=2; h,r-ind=1,1
  [3,3]((7,12,22),(3,5,9),(4,7,12)); lvl=1; h,r-ind=1,1
```

```
  [5,3]((1,0,0),(5,7,12),(3,3,5),(3,5,9),(4,6,11)); lvl=1; h,r-ind=1,1
    [4,3]((4,6,11),(1,0,0),(7,10,18),(7,9,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,0,0),(7,9,16),(4,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,18),(7,9,16),(4,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,18),(4,6,11),(4,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,11),(1,0,0),(4,5,9)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,9),(3,4,7),(7,10,18),(7,9,16)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,7),(7,9,16),(10,14,25)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,18),(7,9,16),(10,14,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(3,4,7),(10,14,25)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,18),(3,5,9),(10,14,25)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,12),(3,5,9),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,7),(1,0,0),(7,9,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,7),(3,3,5),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,12),(3,4,7),(3,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,9),(4,6,11),(7,10,18)); lvl=2; h,r-ind=1,1
  [3,3]((7,12,22),(3,5,9),(4,6,11)); lvl=1; h,r-ind=1,1
```

22.71 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,13,22)); lvl=0; h,r-ind=22,484
  [4,3]((1,0,0),(3,5,8),(2,2,3),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(3,5,8),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(3,5,8),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,5),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(4,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((5,9,15),(3,5,8),(2,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((7,13,22),(5,9,15),(2,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(7,13,22),(2,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,8),(1,2,3),(2,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,6),(1,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,8),(3,4,6),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(3,5,8),(3,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((5,9,15),(3,5,8),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,13,22),(5,9,15),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(1,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,13,22),(0,1,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,0,0),(1,2,2),(2,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,2),(1,1,1),(2,3,4),(5,6,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,5),(1,1,1),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(5,6,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,2,3),(1,1,1),(5,6,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=3; h,r-ind=1,1
```

22.72 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,14,22)); lvl=0; h,r-ind=22,242
  [3,3]((1,0,0),(4,7,11),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,14,22),(4,7,11),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,4),(1,0,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,14,22),(0,1,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(2,3,4),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
```

22.73 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,17,22)); lvl=0; h,r-ind=22,484
  [4,3]((2,4,5),(5,11,13),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,2
    [3,3]((3,6,7),(1,2,2),(5,11,13)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((2,4,5),(3,6,7),(5,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,6,7),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(1,1,1),(3,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,6),(2,4,5),(3,7,9),(5,11,13)); lvl=1; h,r-ind=1,2
    [3,3]((4,9,11),(3,7,9),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,13),(4,9,11),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(5,11,13),(4,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(4,9,11),(3,7,9)); lvl=2; h,r-ind=1,1
  [3,3]((7,17,22),(2,5,6),(3,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,5),(3,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((7,17,22),(1,0,0),(3,7,9)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,6),(1,3,3),(5,11,13),(1,2,2)); lvl=1; h,r-ind=1,2
    [3,3]((3,7,8),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,13),(3,7,8),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(5,11,13),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(3,7,8),(1,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((7,17,22),(0,1,0),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,17,22),(2,5,6),(1,3,3)); lvl=1; h,r-ind=1,1
```

22.74 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,18,22)); lvl=0; h,r-ind=22,242
  [3,3]((3,7,8),(2,5,6),(3,6,7)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,1),(3,7,8),(1,2,2),(3,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(3,7,8),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(3,7,8),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(1,1,1),(4,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(3,6,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,5,6),(3,6,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,9,11),(2,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((7,18,22),(4,9,11),(2,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,8),(2,5,6),(3,8,9)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,3),(3,7,8),(1,2,2),(3,8,9)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(3,7,8),(4,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(3,7,8),(4,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(3,8,9),(4,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(1,2,2),(4,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((7,18,22),(1,3,3),(3,8,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(7,18,22),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((7,18,22),(2,5,6),(3,8,9)); lvl=1; h,r-ind=1,1
```

22.75 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,20,22)); lvl=0; h,r-ind=22,242
  [3,3]((1,2,2),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,20,22),(1,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((5,13,14),(5,14,15),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((5,14,15),(6,16,17),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(6,16,17),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((5,13,14),(5,14,15),(6,16,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(5,13,14),(6,16,17)); lvl=2; h,r-ind=1,1
  [3,3]((7,20,22),(5,13,14),(5,14,15)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((7,20,22),(5,14,15),(1,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((5,12,13),(5,13,14),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((5,13,14),(1,2,2),(6,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(6,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((5,12,13),(5,13,14),(6,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(5,12,13),(6,14,15)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(4,10,11),(5,12,13),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((5,11,12),(4,10,11),(5,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,12),(1,1,1),(5,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(5,11,12),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(5,11,12),(4,10,11)); lvl=2; h,r-ind=1,1
  [4,3]((7,20,22),(4,10,11),(5,12,13),(5,13,14)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((13,33,36),(4,10,11),(5,12,13)); lvl=2; h,r-ind=1,1
    [4,3]((4,11,12),(5,13,14),(13,33,36),(5,12,13)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((9,23,25),(5,13,14),(5,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((13,33,36),(9,23,25),(5,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,12),(13,33,36),(9,23,25)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,12),(9,23,25),(5,13,14)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,12),(13,33,36),(4,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((7,20,22),(4,11,12),(4,10,11)); lvl=2; h,r-ind=1,1
```

22.76 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,21,22)); lvl=0; h,r-ind=22,484
  [3,3]((1,2,2),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(1,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,21,22),(1,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,21,22),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,21,22),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(7,21,22),(1,1,1)); lvl=1; h,r-ind=1,1
```

22.77 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,11,22)); lvl=0; h,r-ind=22,22
  [5,3]((1,1,2),(2,3,5),(2,4,5),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
    [5,3]((4,6,9),(2,4,5),(5,8,11),(4,7,9),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,11),(3,5,7),(4,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,5,7),(4,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(2,4,5),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(5,8,11),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(4,6,9),(3,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(4,6,9),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,4),(4,6,9),(5,8,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(5,8,11),(6,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(5,8,11),(6,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,4),(6,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(1,1,2),(6,9,13)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,4),(1,2,2),(5,8,11),(4,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((6,10,13),(4,7,9),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(6,10,13),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,11),(6,10,13),(4,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(5,8,11),(6,10,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,2),(4,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(2,3,4),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,3),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(1,1,2),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,2),(4,5,10),(2,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,8),(4,5,10),(2,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((4,6,11),(3,4,8),(2,3,5),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,8),(2,3,5),(8,12,21)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(3,5,8),(2,3,5),(8,12,21)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,8,13),(8,12,21),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(5,8,13),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,8),(2,4,5),(5,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,8),(5,8,13),(8,12,21)); lvl=3; h,r-ind=1,1
    [4,3]((4,6,11),(3,5,8),(3,4,8),(8,12,21)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,8),(8,12,21),(6,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,8),(8,12,21),(6,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,11),(3,4,8),(6,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,11),(3,5,8),(6,9,16)); lvl=3; h,r-ind=1,1
  [3,3]((8,11,22),(4,6,11),(3,4,8)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((4,6,11),(0,1,0),(2,4,5)); lvl=1; h,r-ind=2,2; optimized-h
```

22.78 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,13,22)); lvl=0; h,r-ind=22,242
  [5,3]((5,8,13),(2,3,5),(3,5,7),(4,7,10),(4,6,9)); lvl=1; h,r-ind=1,1
    [4,3]((8,13,20),(11,18,27),(5,8,12),(2,3,5)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((13,21,32),(5,8,12),(11,18,27)); lvl=3; h,r-ind=1,1
      [3,3]((8,13,20),(13,21,32),(11,18,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(13,21,32),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((8,13,20),(2,3,5),(13,21,32)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,9),(5,8,12),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,7),(4,6,9),(5,8,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,13),(8,13,20),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((4,7,10),(9,15,22),(8,13,20),(11,18,27)); lvl=2; h,r-ind=1,1
      [3,3]((9,15,22),(11,18,27),(26,43,64)); lvl=3; h,r-ind=1,1
      [4,3]((6,10,15),(8,13,20),(11,18,27),(26,43,64)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((11,18,27),(17,28,42),(8,13,20)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,15),(17,28,42),(8,13,20)); lvl=4; h,r-ind=1,1
        [3,3]((26,43,64),(6,10,15),(17,28,42)); lvl=4; h,r-ind=1,1
        [3,3]((26,43,64),(11,18,27),(17,28,42)); lvl=4; h,r-ind=1,1
      [4,3]((4,7,10),(6,10,15),(9,15,22),(26,43,64)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((15,25,37),(26,43,64),(6,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,10),(15,25,37),(6,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((9,15,22),(4,7,10),(15,25,37)); lvl=4; h,r-ind=1,1
        [3,3]((9,15,22),(15,25,37),(26,43,64)); lvl=4; h,r-ind=1,1
    [3,3]((5,8,13),(4,7,10),(8,13,20)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((9,15,22),(3,5,7),(11,18,27),(5,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,7),(5,8,12),(14,23,34)); lvl=3; h,r-ind=1,1
      [3,3]((11,18,27),(5,8,12),(14,23,34)); lvl=3; h,r-ind=1,1
      [3,3]((9,15,22),(3,5,7),(14,23,34)); lvl=3; h,r-ind=1,1
      [3,3]((11,18,27),(9,15,22),(14,23,34)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,10),(9,15,22),(3,5,7)); lvl=2; h,r-ind=1,1
  [4,3]((7,9,14),(3,4,6),(2,3,5),(4,6,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(5,7,11),(4,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(5,7,11),(4,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,14),(3,4,6),(5,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,14),(2,3,5),(5,7,11)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(7,9,14),(2,2,3),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,8),(2,2,3),(7,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(4,5,8),(7,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(4,5,8),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(1,0,0),(4,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((8,13,22),(1,0,0),(2,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(4,7,11),(5,8,13),(4,7,10)); lvl=1; h,r-ind=1,1
    [4,3]((4,7,10),(2,4,5),(3,5,8),(5,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((7,12,18),(3,5,8),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(7,12,18),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,13),(7,12,18),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(5,8,13),(7,12,18)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(3,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(4,7,11),(3,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((8,13,22),(4,7,11),(5,8,13)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((8,13,22),(5,8,13),(2,3,5)); lvl=1; h,r-ind=1,1
  [6,3]((3,4,6),(2,3,3),(4,5,7),(1,2,2),(3,5,7),(4,6,9)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,7),(2,3,4),(4,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(2,3,4),(4,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,7),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(4,5,7),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(3,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(3,5,7),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((7,9,14),(2,2,3),(3,4,6),(4,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,9),(4,5,7),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,14),(5,6,9),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,9),(3,4,6),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,14),(5,6,9),(3,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(2,2,3),(2,3,3),(4,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,8),(3,4,5),(4,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(5,6,8),(8,9,12),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((7,8,11),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(7,8,11),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,7),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(7,8,11),(8,9,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(1,0,0),(2,2,3),(8,9,12)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,12),(2,2,3),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(8,9,12),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(5,6,8),(8,9,12),(3,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,9),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(6,7,9),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(6,7,9),(8,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(3,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

```
  [4,3]((0,1,0),(1,2,2),(3,5,7),(4,7,10)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(3,5,7),(6,11,14)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(4,7,10),(3,5,7),(6,11,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,9,12),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,14),(5,9,12),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(6,11,14),(5,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(5,9,12),(4,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(2,4,5),(1,2,2),(6,11,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(6,11,14),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(6,11,14),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,2),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(3,6,7)); lvl=3; h,r-ind=1,1
```

22.79 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,21,22)); lvl=0; h,r-ind=22,242
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((8,21,22),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,11,11),(2,5,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((8,21,22),(4,11,11),(2,5,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((8,21,22),(1,2,2),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((8,21,22),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((8,21,22),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
```

22.80 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,11,22)); lvl=0; h,r-ind=22,22
  [3,3]((2,3,3),(1,2,2),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,11),(1,2,2),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((10,11,22),(5,6,11),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,6,11),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,3),(1,1,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
```

22.81 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,21,22)); lvl=0; h,r-ind=22,242
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((10,21,22),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(10,21,22),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,11,11),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((10,21,22),(5,11,11),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((10,21,22),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
```

22.82 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,12,22)); lvl=0; h,r-ind=22,22
  [3,3]((1,0,0),(3,3,5),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((11,13,22),(0,1,0),(3,3,5),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((3,4,6),(0,1,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(2,2,3),(6,7,9)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,6),(3,5,6),(2,2,3),(6,7,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,2,3),(9,11,15),(3,4,5),(6,7,9)); lvl=4; h,r-ind=1,3
          [3,3]((5,6,8),(3,4,5),(9,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(5,6,8),(9,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,9),(5,6,8),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(6,7,9),(5,6,8)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,4),(3,4,6),(2,2,3),(9,11,15)); lvl=4; h,r-ind=1,3
          [3,3]((3,4,6),(4,5,7),(2,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((9,11,15),(4,5,7),(2,2,3)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((2,3,4),(9,11,15),(4,5,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,4),(3,4,6),(4,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,4),(9,11,15),(3,4,5)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,3,4),(3,5,6),(3,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((0,1,0),(3,5,6),(1,1,1),(6,7,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,1,1),(6,8,9),(3,4,5),(6,7,9)); lvl=4; h,r-ind=1,3
          [3,3]((6,8,9),(4,5,6),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,9),(4,5,6),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(6,7,9),(4,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(6,8,9),(4,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(6,8,9),(3,4,5)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,2,2),(3,5,6),(3,4,5)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,1),(0,1,0),(1,2,2),(6,8,9)); lvl=4; h,r-ind=1,3
          [3,3]((2,3,3),(0,1,0),(1,2,2)); lvl=5; h,r-ind=1,1
          [3,3]((6,8,9),(2,3,3),(1,2,2)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(6,8,9),(2,3,3)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(2,3,3),(0,1,0)); lvl=5; h,r-ind=1,1
    [4,3]((5,6,10),(3,4,6),(3,3,5),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,3,5),(2,2,3),(9,10,16)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,8),(3,4,6),(2,2,3),(9,10,16)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,7,11),(2,2,3),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(6,7,11),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,11),(9,10,16),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(6,7,11),(9,10,16)); lvl=4; h,r-ind=1,1
      [4,3]((5,6,10),(4,5,8),(3,3,5),(9,10,16)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,5,8),(7,8,13),(9,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,5),(7,8,13),(9,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,10),(3,3,5),(7,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,10),(4,5,8),(7,8,13)); lvl=4; h,r-ind=1,1
    [3,3]((11,13,22),(5,6,10),(3,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,5),(6,6,11)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((11,13,22),(11,12,22),(3,3,5),(6,6,11)); lvl=1; h,r-ind=1,1
    [4,3]((11,12,22),(8,9,16),(6,6,11),(9,9,16)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((8,9,16),(5,5,9),(9,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,16),(19,21,38),(5,5,9)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((11,12,22),(19,21,38),(6,6,11),(5,5,9)); lvl=3; h,r-ind=1,1
        [3,3]((21,22,40),(5,5,9),(6,6,11)); lvl=4; h,r-ind=1,1
        [4,3]((11,12,22),(10,11,20),(21,22,40),(6,6,11)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((10,11,20),(21,22,40),(16,17,31)); lvl=5; h,r-ind=1,1
          [3,3]((6,6,11),(21,22,40),(16,17,31)); lvl=5; h,r-ind=1,1
          [3,3]((11,12,22),(10,11,20),(16,17,31)); lvl=5; h,r-ind=1,1
          [3,3]((6,6,11),(11,12,22),(16,17,31)); lvl=5; h,r-ind=1,1
        [3,3]((10,11,20),(21,22,40),(5,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((19,21,38),(10,11,20),(5,5,9)); lvl=4; h,r-ind=1,1
    [4,3]((6,7,12),(8,9,16),(3,3,5),(9,9,16)); lvl=2; h,r-ind=1,1
      [3,3]((8,9,16),(4,4,7),(9,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,14),(8,9,16),(4,4,7)); lvl=3; h,r-ind=1,1
      [4,3]((6,7,12),(7,8,14),(3,3,5),(4,4,7)); lvl=3; h,r-ind=1,1
        [3,3]((4,4,7),(3,3,5),(10,11,19)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,12),(3,3,5),(10,11,19)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,14),(6,7,12),(10,11,19)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,14),(4,4,7),(10,11,19)); lvl=4; h,r-ind=1,1
    [3,3]((11,13,22),(6,7,12),(3,3,5)); lvl=2; h,r-ind=1,1
```

22.83 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,13,22)); lvl=0; h,r-ind=22,44
  [3,3]((1,0,0),(3,3,5),(2,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((5,6,10),(3,4,6),(3,3,5),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,3,5),(2,2,3),(9,10,16)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,8),(3,4,6),(2,2,3),(9,10,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,7,11),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(6,7,11),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,11),(9,10,16),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(6,7,11),(9,10,16)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,10),(4,5,8),(3,3,5),(9,10,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,8),(7,8,13),(9,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,5),(7,8,13),(9,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,10),(3,3,5),(7,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,10),(4,5,8),(7,8,13)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,1,1),(3,4,6),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(2,2,3),(6,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,6),(3,5,6),(2,2,3),(6,7,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((2,2,3),(9,11,15),(3,4,5),(6,7,9)); lvl=3; h,r-ind=1,3
        [3,3]((5,6,8),(3,4,5),(9,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(5,6,8),(9,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,9),(5,6,8),(3,4,5)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,2,3),(6,7,9),(5,6,8)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,4),(3,4,6),(2,2,3),(9,11,15)); lvl=3; h,r-ind=1,3
      [3,3]((3,4,6),(4,5,7),(2,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,15),(4,5,7),(2,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(9,11,15),(4,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,6),(4,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,4),(9,11,15),(3,4,5)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((2,3,4),(3,5,6),(3,4,5)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(3,5,6),(1,1,1),(6,7,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((1,1,1),(6,8,9),(3,4,5),(6,7,9)); lvl=3; h,r-ind=1,3
      [3,3]((6,8,9),(4,5,6),(3,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,9),(4,5,6),(3,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(6,7,9),(4,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(6,8,9),(4,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(6,8,9),(3,4,5)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,2,2),(3,5,6),(3,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(0,1,0),(1,2,2),(6,8,9)); lvl=3; h,r-ind=1,3
      [3,3]((2,3,3),(0,1,0),(1,2,2)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,9),(2,3,3),(1,2,2)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(6,8,9),(2,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(0,1,0)); lvl=4; h,r-ind=1,1
[3,3]((11,13,22),(5,6,10),(3,3,5)); lvl=1; h,r-ind=1,1
[3,3]((1,1,1),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
[3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
[3,3]((11,13,22),(1,0,0),(3,3,5)); lvl=1; h,r-ind=1,1
```

22.84 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,14,22)); lvl=0; h,r-ind=22,22
  [3,3]((1,1,1),(3,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(3,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((6,7,11),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,4),(10,13,20),(2,2,3),(3,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,6),(2,2,3),(10,13,20)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(6,7,10),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,10),(3,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(6,7,10),(3,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,3,4),(3,4,6),(6,7,10)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((6,7,11),(11,14,22),(10,13,20),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(7,9,14),(10,13,20)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(15,18,28),(7,9,14)); lvl=2; h,r-ind=1,1
    [4,3]((6,7,11),(11,14,22),(15,18,28),(7,9,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((13,16,25),(11,14,22),(7,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((15,18,28),(13,16,25),(7,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,11),(15,18,28),(13,16,25)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,11),(13,16,25),(11,14,22)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(6,7,11),(15,18,28)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,4),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,6),(1,1,1),(3,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(4,5,6),(3,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,2),(2,3,4),(4,5,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((0,1,0),(1,2,2),(4,5,6),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,3),(1,2,2),(4,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(1,1,1),(4,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
```

22.85 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,16,22)); lvl=0; h,r-ind=22,22
  [3,3]((3,3,4),(4,4,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(4,4,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((6,8,11),(3,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,4),(3,3,4),(4,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,4),(1,1,1),(3,5,6),(4,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,5),(3,5,6),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((4,4,5),(3,4,5),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(4,4,5),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,5),(3,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(3,5,6)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((6,8,11),(2,3,4),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((11,16,22),(6,8,11),(2,3,4)); lvl=1; h,r-ind=1,1
```

22.86 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,18,22)); lvl=0; h,r-ind=22,22
  [3,3]((1,2,2),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(4,7,8),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,6),(4,7,8),(5,6,7),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,8),(4,6,7),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,7),(4,6,7),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(5,6,7),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,7,8),(4,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(5,6,7),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,6),(6,9,11),(5,6,7),(4,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((6,9,11),(7,10,12),(4,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,7),(7,10,12),(4,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(5,6,7),(7,10,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(6,9,11),(7,10,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(5,6,7),(4,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(6,9,11),(4,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((11,18,22),(3,5,6),(6,9,11)); lvl=1; h,r-ind=1,1
```

22.87 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,20,22)); lvl=0; h,r-ind=22,22
  [3,3]((1,2,2),(7,13,14),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((11,20,22),(6,10,11),(7,13,14),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((13,22,24),(1,1,1),(6,10,11)); lvl=2; h,r-ind=1,1
    [4,3]((11,20,22),(6,11,12),(13,22,24),(6,10,11)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,11,12),(13,22,24),(12,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,11),(13,22,24),(12,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((11,20,22),(6,11,12),(12,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,11),(11,20,22),(12,21,23)); lvl=3; h,r-ind=1,1
    [3,3]((6,11,12),(13,22,24),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((7,13,14),(6,11,12),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(6,10,11),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

22.88 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,21,22)); lvl=0; h,r-ind=22,44
  [3,3]((1,1,1),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((11,21,22),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(11,21,22),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
```

22.89 Resolved

```
[3,3]((1,0,0),(0,1,0),(12,13,22)); lvl=0; h,r-ind=22,242
  [4,3]((0,1,0),(2,2,3),(6,7,10),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((4,5,6),(6,7,10),(3,4,5),(2,2,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,5),(6,7,10),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(6,7,10),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(3,4,5),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,6),(5,6,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(4,5,6),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(4,5,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(4,5,6),(3,4,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [5,3]((3,3,5),(2,2,3),(6,7,10),(9,10,16),(13,14,23)); lvl=1; h,r-ind=1,1
    [5,3]((18,19,30),(21,23,36),(6,7,10),(15,17,26),(2,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((21,23,36),(13,14,22),(10,11,17),(18,20,31)); lvl=3; h,r-ind=1,1
        [3,3]((13,14,22),(10,11,17),(31,34,53)); lvl=4; h,r-ind=1,1
        [3,3]((18,20,31),(10,11,17),(31,34,53)); lvl=4; h,r-ind=1,1
        [3,3]((21,23,36),(13,14,22),(31,34,53)); lvl=4; h,r-ind=1,1
        [3,3]((18,20,31),(21,23,36),(31,34,53)); lvl=4; h,r-ind=1,1
      [4,3]((15,17,26),(7,8,12),(10,11,17),(18,20,31)); lvl=3; h,r-ind=1,1
        [3,3]((7,8,12),(10,11,17),(25,28,43)); lvl=4; h,r-ind=1,1
        [3,3]((18,20,31),(10,11,17),(25,28,43)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((15,17,26),(7,8,12),(25,28,43)); lvl=4; h,r-ind=1,1
      [3,3]((18,20,31),(15,17,26),(25,28,43)); lvl=4; h,r-ind=1,1
    [3,3]((12,13,20),(7,8,12),(10,11,17)); lvl=3; h,r-ind=1,1
    [4,3]((12,13,20),(2,2,3),(7,8,12),(6,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((9,10,15),(2,2,3),(6,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,12),(9,10,15),(6,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((12,13,20),(9,10,15),(2,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,12),(12,13,20),(9,10,15)); lvl=4; h,r-ind=1,1
    [3,3]((12,13,20),(13,14,22),(10,11,17)); lvl=3; h,r-ind=1,1
    [4,3]((18,19,30),(12,13,20),(2,2,3),(13,14,22)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((15,16,25),(2,2,3),(12,13,20)); lvl=4; h,r-ind=1,1
      [3,3]((15,16,25),(13,14,22),(12,13,20)); lvl=4; h,r-ind=1,1
      [3,3]((18,19,30),(15,16,25),(13,14,22)); lvl=4; h,r-ind=1,1
      [3,3]((18,19,30),(15,16,25),(2,2,3)); lvl=4; h,r-ind=1,1
  [3,3]((3,3,5),(18,19,30),(2,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((3,3,5),(18,19,30),(21,23,36),(12,13,21)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [3,3]((13,14,22),(11,12,19),(30,32,51)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [4,3]((3,3,5),(12,13,21),(11,12,19),(30,32,51)); lvl=3; h,r-ind=1,3
      [3,3]((14,15,24),(11,12,19),(12,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,5),(14,15,24),(12,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((30,32,51),(14,15,24),(11,12,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,5),(30,32,51),(14,15,24)); lvl=4; h,r-ind=1,1
    [4,3]((3,3,5),(18,19,30),(13,14,22),(30,32,51)); lvl=3; h,r-ind=1,3
      [3,3]((13,14,22),(16,17,27),(18,19,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,5),(16,17,27),(18,19,30)); lvl=4; h,r-ind=1,1
      [3,3]((30,32,51),(13,14,22),(16,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,5),(30,32,51),(16,17,27)); lvl=4; h,r-ind=1,1
    [3,3]((13,14,22),(21,23,36),(11,12,19)); lvl=3; h,r-ind=1,1
  [3,3]((3,3,5),(12,13,21),(13,14,23)); lvl=2; h,r-ind=1,1
  [4,3]((21,23,36),(12,13,21),(15,17,26),(9,10,16)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((11,12,19),(8,9,14),(12,13,21),(9,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((20,22,35),(9,10,16),(8,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((11,12,19),(20,22,35),(8,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((12,13,21),(20,22,35),(9,10,16)); lvl=4; h,r-ind=1,1
      [3,3]((11,12,19),(12,13,21),(20,22,35)); lvl=4; h,r-ind=1,1
    [3,3]((11,12,19),(18,20,31),(8,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((11,12,19),(21,23,36),(18,20,31)); lvl=3; h,r-ind=1,1
    [3,3]((18,20,31),(8,9,14),(15,17,26)); lvl=3; h,r-ind=1,1
  [3,3]((12,13,21),(13,14,23),(9,10,16)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(3,3,5),(2,2,3)); lvl=1; h,r-ind=1,1
[3,3]((12,13,22),(1,0,0),(3,3,5)); lvl=1; h,r-ind=1,1
[4,3]((11,12,20),(9,10,16),(13,14,23),(14,15,25)); lvl=1; h,r-ind=1,1
  [4,3]((10,11,18),(9,10,16),(13,14,23),(37,40,66)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((23,25,41),(13,14,23),(9,10,16)); lvl=3; h,r-ind=1,1
    [3,3]((10,11,18),(23,25,41),(9,10,16)); lvl=3; h,r-ind=1,1
    [3,3]((23,25,41),(37,40,66),(13,14,23)); lvl=3; h,r-ind=1,1
    [3,3]((10,11,18),(23,25,41),(37,40,66)); lvl=3; h,r-ind=1,1
  [3,3]((14,15,25),(13,14,23),(37,40,66)); lvl=2; h,r-ind=1,1
  [4,3]((14,15,25),(11,12,20),(10,11,18),(37,40,66)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((11,12,20),(24,26,43),(10,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((37,40,66),(24,26,43),(10,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((14,15,25),(37,40,66),(24,26,43)); lvl=3; h,r-ind=1,1
    [3,3]((14,15,25),(11,12,20),(24,26,43)); lvl=3; h,r-ind=1,1
[3,3]((3,3,5),(13,14,23),(14,15,25)); lvl=1; h,r-ind=1,1
[3,3]((12,13,22),(3,3,5),(14,15,25)); lvl=1; h,r-ind=1,1
[3,3]((12,13,22),(11,12,20),(14,15,25)); lvl=1; h,r-ind=1,1
[4,3]((0,1,0),(5,6,9),(6,7,10),(9,10,16)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,7),(5,6,9),(9,10,16)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,7),(15,17,26),(9,10,16)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((4,5,7),(6,7,10),(15,17,26),(3,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,5),(14,17,24),(7,8,12),(6,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((7,8,12),(10,12,17),(14,17,24)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,5),(10,12,17),(14,17,24)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,10),(7,8,12),(10,12,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,5),(6,7,10),(10,12,17)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,7),(3,4,5),(14,17,24)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,7),(14,17,24),(7,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,7),(7,8,12),(15,17,26)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(4,5,7),(3,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(4,5,7),(5,6,9)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(6,7,11),(5,6,9)); lvl=1; h,r-ind=1,1
[4,3]((6,7,11),(11,12,20),(5,6,9),(9,10,16)); lvl=1; h,r-ind=1,1
  [4,3]((21,24,38),(5,6,9),(10,11,18),(9,10,16)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((5,6,9),(9,10,16),(15,17,27)); lvl=3; h,r-ind=1,1
    [3,3]((10,11,18),(9,10,16),(15,17,27)); lvl=3; h,r-ind=1,1
    [3,3]((21,24,38),(5,6,9),(15,17,27)); lvl=3; h,r-ind=1,1
    [3,3]((10,11,18),(21,24,38),(15,17,27)); lvl=3; h,r-ind=1,1
  [4,3]((6,7,11),(21,24,38),(11,12,20),(10,11,18)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((16,18,29),(10,11,18),(21,24,38)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,11),(16,18,29),(21,24,38)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((11,12,20),(16,18,29),(10,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,11),(11,12,20),(16,18,29)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,11),(21,24,38),(5,6,9)); lvl=2; h,r-ind=1,1
  [3,3]((12,13,22),(6,7,11),(11,12,20)); lvl=1; h,r-ind=1,1
```

22.90 Resolved

```
[3,3]((1,0,0),(0,1,0),(12,17,22)); lvl=0; h,r-ind=22,242
  [3,3]((3,4,5),(5,7,9),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((12,17,22),(5,7,9),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(3,4,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(3,5,5),(3,4,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,1,1),(3,5,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,5,5),(3,4,5),(5,7,9)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(6,9,11),(3,5,5),(5,7,9)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,9),(6,9,11),(5,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,7),(5,8,9),(9,15,16),(5,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((9,14,16),(9,15,16),(5,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,9),(9,14,16),(5,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(5,7,9),(9,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(9,14,16),(9,15,16)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(3,5,5),(4,6,7),(9,15,16)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,7),(4,6,7),(3,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(4,7,7),(3,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((9,15,16),(4,7,7),(4,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(9,15,16),(4,7,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(5,8,9),(9,15,16)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(5,8,9),(6,9,11)); lvl=2; h,r-ind=1,1
  [3,3]((12,17,22),(6,9,11),(5,7,9)); lvl=1; h,r-ind=1,1
```

22.91 Resolved

```
[3,3]((1,0,0),(0,1,0),(12,21,22)); lvl=0; h,r-ind=22,242
  [3,3]((0,1,0),(6,11,11),(3,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((12,21,22),(6,11,11),(3,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,1),(0,1,0),(3,5,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((12,21,22),(1,1,1),(3,5,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(12,21,22),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
```

22.92 Resolved

```
[3,3]((1,0,0),(0,1,0),(13,13,22)); lvl=0; h,r-ind=22,484
  [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,5),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,5),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((13,13,22),(0,1,0),(3,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((13,13,22),(3,3,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

22.93 Resolved

```
[3,3]((1,0,0),(0,1,0),(13,16,22)); lvl=0; h,r-ind=22,242
  [3,3]((5,6,8),(3,4,5),(12,15,20)); lvl=1; h,r-ind=1,1
  [3,3]((13,16,22),(3,4,5),(12,15,20)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(13,16,22),(3,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((13,16,22),(5,6,8),(12,15,20)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((13,16,22),(7,8,11),(5,6,8)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(7,8,11),(5,6,8)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((2,3,3),(4,5,6),(5,6,8),(3,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,8),(4,5,6),(7,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(4,5,6),(7,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(2,3,3),(7,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(5,6,8),(7,9,11)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(3,4,5)); lvl=1; h,r-ind=1,1
```

```
  [4,3]((4,5,6),(1,1,1),(4,4,5),(5,6,8)); lvl=1; h,r-ind=1,1
    [3,3]((6,7,9),(1,1,1),(4,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,8),(6,7,9),(4,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,6),(6,7,9),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,8),(4,5,6),(6,7,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(4,4,5),(5,6,8)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,1,1),(4,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(4,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
```

22.94 Resolved

```
[3,3]((1,0,0),(0,1,0),(13,21,22)); lvl=0; h,r-ind=22,484
  [3,3]((0,1,0),(3,5,5),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((13,21,22),(3,5,5),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((13,21,22),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(13,21,22),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((13,21,22),(0,1,0),(3,5,5)); lvl=1; h,r-ind=1,1
```

22.95 Resolved

```
[3,3]((1,0,0),(0,1,0),(14,21,22)); lvl=0; h,r-ind=22,242
  [3,3]((0,1,0),(2,3,3),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((14,21,22),(2,3,3),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(0,1,0),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((14,21,22),(1,1,1),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(14,21,22),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(7,11,11),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((14,21,22),(7,11,11),(2,3,3)); lvl=1; h,r-ind=1,1
```

22.96 Resolved

```
[3,3]((1,0,0),(0,1,0),(16,21,22)); lvl=0; h,r-ind=22,242
  [3,3]((3,4,4),(0,1,0),(8,11,11)); lvl=1; h,r-ind=1,1
  [3,3]((16,21,22),(3,4,4),(8,11,11)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,4),(0,1,0),(4,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(4,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((16,21,22),(1,1,1),(4,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(16,21,22),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((16,21,22),(3,4,4),(4,5,5)); lvl=1; h,r-ind=1,1
```

22.97 Resolved

```
[3,3]((1,0,0),(0,1,0),(18,21,22)); lvl=0; h,r-ind=22,242
  [3,3]((0,1,0),(6,7,7),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((18,21,22),(6,7,7),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(18,21,22),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(9,11,11),(6,7,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((18,21,22),(9,11,11),(6,7,7)); lvl=1; h,r-ind=3,3; optimized-h
```

22.98 Resolved

```
[3,3]((1,0,0),(0,1,0),(20,21,22)); lvl=0; h,r-ind=22,242
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((20,21,22),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(10,11,11),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((20,21,22),(1,1,1),(10,11,11)); lvl=1; h,r-ind=1,1
```

22.99 Resolved

```
[3,3]((1,0,0),(0,1,0),(21,21,22)); lvl=0; h,r-ind=22,484
  [3,3]((21,21,22),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(21,21,22),(1,1,1)); lvl=1; h,r-ind=1,1
```

23 H-index = 23

23.0 Classification

```
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  [3,3]((1,0,0),(0,1,0),(2,0,23))
  [3,3]((1,0,0),(0,1,0),(12,0,23))
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  [3,3]((1,0,0),(0,1,0),(8,0,23))
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  [3,3]((1,0,0),(0,1,0),(21,0,23))
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```

```
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```

```
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  [3,3]((1,0,0),(0,1,0),(12,17,23))
```

```
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[3,3]((1,0,0),(0,1,0),(9,13,23))
  [3,3]((1,0,0),(0,1,0),(9,13,23))
  [3,3]((1,0,0),(0,1,0),(13,9,23))
  [3,3]((1,0,0),(0,1,0),(16,17,23))
  [3,3]((1,0,0),(0,1,0),(17,16,23))
  [3,3]((1,0,0),(0,1,0),(18,19,23))
  [3,3]((1,0,0),(0,1,0),(19,18,23))
[3,3]((1,0,0),(0,1,0),(9,16,23))
  [3,3]((1,0,0),(0,1,0),(9,16,23))
  [3,3]((1,0,0),(0,1,0),(11,18,23))
  [3,3]((1,0,0),(0,1,0),(13,21,23))
  [3,3]((1,0,0),(0,1,0),(16,9,23))
  [3,3]((1,0,0),(0,1,0),(18,11,23))
  [3,3]((1,0,0),(0,1,0),(21,13,23))
[3,3]((1,0,0),(0,1,0),(9,17,23))
  [3,3]((1,0,0),(0,1,0),(9,17,23))
  [3,3]((1,0,0),(0,1,0),(13,19,23))
  [3,3]((1,0,0),(0,1,0),(16,18,23))
  [3,3]((1,0,0),(0,1,0),(17,9,23))
  [3,3]((1,0,0),(0,1,0),(18,16,23))
  [3,3]((1,0,0),(0,1,0),(19,13,23))
[3,3]((1,0,0),(0,1,0),(9,21,23))
  [3,3]((1,0,0),(0,1,0),(9,21,23))
  [3,3]((1,0,0),(0,1,0),(11,16,23))
  [3,3]((1,0,0),(0,1,0),(13,18,23))
  [3,3]((1,0,0),(0,1,0),(16,11,23))
  [3,3]((1,0,0),(0,1,0),(18,13,23))
  [3,3]((1,0,0),(0,1,0),(21,9,23))
[3,3]((1,0,0),(0,1,0),(9,22,23))
  [3,3]((1,0,0),(0,1,0),(9,22,23))
  [3,3]((1,0,0),(0,1,0),(18,18,23))
  [3,3]((1,0,0),(0,1,0),(22,9,23))
[3,3]((1,0,0),(0,1,0),(11,11,23))
  [3,3]((1,0,0),(0,1,0),(11,11,23))
  [3,3]((1,0,0),(0,1,0),(21,22,23))
  [3,3]((1,0,0),(0,1,0),(22,21,23))
[3,3]((1,0,0),(0,1,0),(11,17,23))
  [3,3]((1,0,0),(0,1,0),(11,17,23))
  [3,3]((1,0,0),(0,1,0),(11,21,23))
  [3,3]((1,0,0),(0,1,0),(17,11,23))
  [3,3]((1,0,0),(0,1,0),(19,21,23))
  [3,3]((1,0,0),(0,1,0),(21,11,23))
  [3,3]((1,0,0),(0,1,0),(21,19,23))
[3,3]((1,0,0),(0,1,0),(11,19,23))
  [3,3]((1,0,0),(0,1,0),(11,19,23))
  [3,3]((1,0,0),(0,1,0),(15,21,23))
  [3,3]((1,0,0),(0,1,0),(17,20,23))
  [3,3]((1,0,0),(0,1,0),(19,11,23))
  [3,3]((1,0,0),(0,1,0),(20,17,23))
  [3,3]((1,0,0),(0,1,0),(21,15,23))
[3,3]((1,0,0),(0,1,0),(11,20,23))
  [3,3]((1,0,0),(0,1,0),(11,20,23))
  [3,3]((1,0,0),(0,1,0),(15,19,23))
  [3,3]((1,0,0),(0,1,0),(17,21,23))
  [3,3]((1,0,0),(0,1,0),(19,15,23))
  [3,3]((1,0,0),(0,1,0),(20,11,23))
  [3,3]((1,0,0),(0,1,0),(21,17,23))
[3,3]((1,0,0),(0,1,0),(11,22,23))
  [3,3]((1,0,0),(0,1,0),(11,22,23))
  [3,3]((1,0,0),(0,1,0),(21,21,23))
  [3,3]((1,0,0),(0,1,0),(22,11,23))
[3,3]((1,0,0),(0,1,0),(13,13,23))
  [3,3]((1,0,0),(0,1,0),(13,13,23))
  [3,3]((1,0,0),(0,1,0),(16,22,23))
```

```
  [3,3]((1,0,0),(0,1,0),(22,16,23))
[3,3]((1,0,0),(0,1,0),(13,15,23))
  [3,3]((1,0,0),(0,1,0),(13,15,23))
  [3,3]((1,0,0),(0,1,0),(13,16,23))
  [3,3]((1,0,0),(0,1,0),(15,13,23))
  [3,3]((1,0,0),(0,1,0),(16,13,23))
  [3,3]((1,0,0),(0,1,0),(16,20,23))
  [3,3]((1,0,0),(0,1,0),(20,16,23))
[3,3]((1,0,0),(0,1,0),(13,22,23))
  [3,3]((1,0,0),(0,1,0),(13,22,23))
  [3,3]((1,0,0),(0,1,0),(16,16,23))
  [3,3]((1,0,0),(0,1,0),(22,13,23))
[3,3]((1,0,0),(0,1,0),(15,15,23))
  [3,3]((1,0,0),(0,1,0),(15,15,23))
  [3,3]((1,0,0),(0,1,0),(20,22,23))
  [3,3]((1,0,0),(0,1,0),(22,20,23))
[3,3]((1,0,0),(0,1,0),(15,22,23))
  [3,3]((1,0,0),(0,1,0),(15,22,23))
  [3,3]((1,0,0),(0,1,0),(20,20,23))
  [3,3]((1,0,0),(0,1,0),(22,15,23))
[3,3]((1,0,0),(0,1,0),(17,17,23))
  [3,3]((1,0,0),(0,1,0),(17,17,23))
  [3,3]((1,0,0),(0,1,0),(19,22,23))
  [3,3]((1,0,0),(0,1,0),(22,19,23))
[3,3]((1,0,0),(0,1,0),(17,22,23))
  [3,3]((1,0,0),(0,1,0),(17,22,23))
  [3,3]((1,0,0),(0,1,0),(19,19,23))
  [3,3]((1,0,0),(0,1,0),(22,17,23))
[3,3]((1,0,0),(0,1,0),(22,22,23))
  [3,3]((1,0,0),(0,1,0),(22,22,23))
```

23.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,23)); lvl=0; h,r-ind=23,23
  [3,3]((1,0,0),(0,2,23),(0,1,0)); lvl=1; h,r-ind=23,23
    [3,3]((1,0,0),(0,1,11),(0,2,23)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,6),(0,1,11)); lvl=2; h,r-ind=5,5; optimized-h
    [3,3]((1,0,0),(0,1,0),(0,1,6)); lvl=2; h,r-ind=6,6; optimized-h
  [3,3]((1,0,0),(0,1,23),(0,2,23)); lvl=1; h,r-ind=23,23
    [3,3]((1,0,0),(0,1,23),(0,1,17)); lvl=2; h,r-ind=6,6; optimized-h
    [3,3]((1,0,0),(0,1,12),(0,1,17)); lvl=2; h,r-ind=5,5; optimized-h
    [3,3]((1,0,0),(0,1,12),(0,2,23)); lvl=2; h,r-ind=1,1
```

23.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,2,23)); lvl=0; h,r-ind=23,23
  [3,3]((1,0,0),(0,1,11),(0,2,23)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,6),(0,1,11)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,1,0),(0,1,6)); lvl=1; h,r-ind=6,6; optimized-h
```

23.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,3,23)); lvl=0; h,r-ind=23,23
  [3,3]((1,0,0),(0,3,22),(0,1,4)); lvl=1; h,r-ind=10,10; optimized-h
  [3,3]((1,0,0),(0,1,0),(0,1,4)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,0,0),(0,3,23),(0,3,22)); lvl=1; h,r-ind=3,3; optimized-h
```

23.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,4,23)); lvl=0; h,r-ind=23,23
  [3,3]((1,0,0),(0,1,3),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,2,11),(0,1,3)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,4,23),(0,2,11)); lvl=1; h,r-ind=2,2; optimized-h
```

23.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,5,23)); lvl=0; h,r-ind=23,23
  [3,3]((1,0,0),(0,2,5),(0,3,13)); lvl=1; h,r-ind=11,11; optimized-h
  [3,3]((1,0,0),(0,2,9),(0,3,13)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,5,23),(0,2,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,2,5)); lvl=1; h,r-ind=5,5; optimized-h
```

23.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,7,23)); lvl=0; h,r-ind=23,23
  [3,3]((1,0,0),(0,1,3),(0,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,1,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,5,16),(0,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,7,23),(0,5,16)); lvl=1; h,r-ind=3,3; optimized-h
```

23.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,9,23)); lvl=0; h,r-ind=23,23
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,3,7),(0,2,3)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,2,5),(0,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,9,23),(0,2,5)); lvl=1; h,r-ind=1,1
```

23.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,11,23)); lvl=0; h,r-ind=23,23
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,2),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,11,23),(0,1,2)); lvl=1; h,r-ind=1,1
```

23.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,13,23)); lvl=0; h,r-ind=23,23
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,5,8),(0,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,5,8),(0,4,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,4,7),(0,13,23)); lvl=1; h,r-ind=1,1
```

23.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,15,23)); lvl=0; h,r-ind=23,23
  [3,3]((1,0,0),(0,1,1),(0,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,2,3),(0,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,15,23),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
```

23.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,17,23)); lvl=0; h,r-ind=23,23
  [3,3]((1,0,0),(0,1,1),(0,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,3,4),(0,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,17,23),(0,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
```

23.12 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,22,23)); lvl=0; h,r-ind=23,23
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,1),(0,22,23)); lvl=1; h,r-ind=1,1
```

23.13 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,23)); lvl=0; h,r-ind=23,529
  [3,3]((2,2,23),(1,1,22),(1,0,0)); lvl=1; h,r-ind=21,21; optimized-h
  [3,3]((1,1,23),(1,1,22),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,23),(1,0,0)); lvl=1; h,r-ind=23,529
    [3,3]((1,1,6),(0,1,0),(1,1,11)); lvl=2; h,r-ind=5,5; optimized-h
    [3,3]((2,2,23),(0,1,0),(1,1,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,6),(1,1,11)); lvl=2; h,r-ind=5,5; optimized-h
    [3,3]((2,2,23),(1,0,0),(1,1,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,6),(0,1,0)); lvl=2; h,r-ind=6,36; optimized-h
  [3,3]((0,1,0),(2,2,23),(1,1,22)); lvl=1; h,r-ind=21,21; optimized-h
  [3,3]((1,1,23),(0,1,0),(1,1,22)); lvl=1; h,r-ind=1,1
```

23.14 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,23)); lvl=0; h,r-ind=23,529
  [5,3]((1,2,21),(1,1,6),(2,4,23),(2,3,33),(1,1,11)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,11),(2,2,17),(2,3,25),(2,3,32)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,25),(2,2,17),(1,1,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,2,19),(4,6,57),(2,3,25),(1,1,9)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,28),(2,3,27),(4,5,46)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [5,3]((11,13,120),(1,1,9),(2,3,25),(2,3,27),(4,5,46)); lvl=4; h,r-ind=1,1
          [3,3]((4,5,45),(2,3,26),(2,3,27)); lvl=5; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
          [4,3]((4,5,45),(7,9,82),(8,10,91),(2,3,27)); lvl=5; h,r-ind=1,1
            [3,3]((7,9,82),(8,10,91),(18,23,209)); lvl=6; h,r-ind=1,1
            [4,3]((3,4,36),(4,5,45),(8,10,91),(18,23,209)); lvl=6; h,r-ind=1,2; alert-r-inc
              [3,3]((4,5,45),(11,14,127),(8,10,91)); lvl=7; h,r-ind=1,1
              [3,3]((18,23,209),(11,14,127),(8,10,91)); lvl=7; h,r-ind=1,1
              [3,3]((3,4,36),(18,23,209),(11,14,127)); lvl=7; h,r-ind=1,1
              [3,3]((3,4,36),(4,5,45),(11,14,127)); lvl=7; h,r-ind=1,1
            [4,3]((2,3,27),(3,4,36),(7,9,82),(18,23,209)); lvl=6; h,r-ind=1,2; alert-r-inc
              [3,3]((3,4,36),(18,23,209),(10,13,118)); lvl=7; h,r-ind=1,1
              [3,3]((7,9,82),(18,23,209),(10,13,118)); lvl=7; h,r-ind=1,1
              [3,3]((2,3,27),(3,4,36),(10,13,118)); lvl=7; h,r-ind=1,1
              [3,3]((7,9,82),(2,3,27),(10,13,118)); lvl=7; h,r-ind=1,1
          [3,3]((4,5,46),(7,9,82),(2,3,27)); lvl=5; h,r-ind=1,1
          [4,3]((4,5,46),(5,6,55),(7,9,82),(8,10,91)); lvl=5; h,r-ind=1,1
            [3,3]((12,15,137),(8,10,91),(5,6,55)); lvl=6; h,r-ind=1,1
            [3,3]((4,5,46),(12,15,137),(5,6,55)); lvl=6; h,r-ind=1,1
            [3,3]((7,9,82),(12,15,137),(8,10,91)); lvl=6; h,r-ind=1,1
            [3,3]((4,5,46),(7,9,82),(12,15,137)); lvl=6; h,r-ind=1,1
          [3,3]((11,13,120),(4,5,46),(5,6,55)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,9),(11,13,120),(5,6,55)); lvl=5; h,r-ind=1,1
          [4,3]((1,1,9),(5,6,55),(4,5,45),(8,10,91)); lvl=5; h,r-ind=1,1
            [3,3]((4,5,45),(8,10,91),(9,11,100)); lvl=6; h,r-ind=1,1
            [3,3]((5,6,55),(8,10,91),(9,11,100)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,9),(5,6,55),(9,11,100)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,9),(4,5,45),(9,11,100)); lvl=6; h,r-ind=1,1
          [4,3]((1,1,9),(4,5,45),(2,3,25),(2,3,26)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,4,35),(2,3,25),(2,3,26)); lvl=6; h,r-ind=1,1
            [3,3]((4,5,45),(3,4,35),(2,3,26)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,9),(4,5,45),(3,4,35)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,9),(3,4,35),(2,3,25)); lvl=6; h,r-ind=1,1
        [4,3]((2,2,19),(6,7,65),(11,13,120),(1,1,9)); lvl=4; h,r-ind=1,1
          [3,3]((7,8,74),(6,7,65),(11,13,120)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,9),(7,8,74),(11,13,120)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,19),(7,8,74),(6,7,65)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,9),(2,2,19),(7,8,74)); lvl=5; h,r-ind=1,1
        [5,3]((6,7,65),(11,13,120),(3,4,38),(2,3,28),(4,5,46)); lvl=4; h,r-ind=1,1
          [5,3]((3,4,38),(9,11,103),(3,4,37),(8,10,93),(2,3,28)); lvl=5; h,r-ind=1,1
            [4,3]((4,5,47),(8,10,93),(15,19,177),(9,11,103)); lvl=6; h,r-ind=1,2; alert-r-inc
              [3,3]((8,10,93),(12,15,140),(15,19,177)); lvl=7; h,r-ind=1,1
              [3,3]((4,5,47),(12,15,140),(15,19,177)); lvl=7; h,r-ind=1,1
              [3,3]((9,11,103),(4,5,47),(12,15,140)); lvl=7; h,r-ind=1,1
              [3,3]((9,11,103),(8,10,93),(12,15,140)); lvl=7; h,r-ind=1,1
            [4,3]((4,5,47),(15,19,177),(9,12,112),(3,4,37)); lvl=6; h,r-ind=1,1
```

```
            [3,3]((7,9,84),(3,4,37),(9,12,112)); lvl=7; h,r-ind=1,1
            [3,3]((4,5,47),(7,9,84),(9,12,112)); lvl=7; h,r-ind=1,1
            [3,3]((15,19,177),(7,9,84),(3,4,37)); lvl=7; h,r-ind=1,1
            [3,3]((4,5,47),(15,19,177),(7,9,84)); lvl=7; h,r-ind=1,1
          [4,3]((3,4,38),(4,5,47),(2,3,28),(9,12,112)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((6,8,75),(9,12,112),(4,5,47)); lvl=7; h,r-ind=1,1
            [3,3]((3,4,38),(6,8,75),(4,5,47)); lvl=7; h,r-ind=1,1
            [3,3]((6,8,75),(2,3,28),(9,12,112)); lvl=7; h,r-ind=1,1
            [3,3]((3,4,38),(6,8,75),(2,3,28)); lvl=7; h,r-ind=1,1
          [3,3]((2,3,28),(9,12,112),(3,4,37)); lvl=6; h,r-ind=1,1
          [3,3]((8,10,93),(15,19,177),(3,4,37)); lvl=6; h,r-ind=1,1
        [4,3]((6,7,65),(10,12,111),(9,11,103),(8,10,93)); lvl=5; h,r-ind=1,1
          [4,3]((5,6,56),(6,7,65),(9,11,102),(10,12,111)); lvl=6; h,r-ind=1,1
            [3,3]((15,18,167),(10,12,111),(6,7,65)); lvl=7; h,r-ind=1,1
            [3,3]((5,6,56),(15,18,167),(6,7,65)); lvl=7; h,r-ind=1,1
            [3,3]((9,11,102),(15,18,167),(10,12,111)); lvl=7; h,r-ind=1,1
            [3,3]((5,6,56),(9,11,102),(15,18,167)); lvl=7; h,r-ind=1,1
          [3,3]((5,6,56),(8,10,93),(9,11,102)); lvl=6; h,r-ind=1,1
          [3,3]((9,11,103),(5,6,56),(8,10,93)); lvl=6; h,r-ind=1,1
        [4,3]((10,12,111),(4,5,46),(3,4,37),(8,10,93)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,37),(4,5,46),(16,20,185)); lvl=6; h,r-ind=1,1
          [4,3]((10,12,111),(9,11,102),(4,5,46),(16,20,185)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((13,16,148),(16,20,185),(4,5,46)); lvl=7; h,r-ind=1,1
            [3,3]((10,12,111),(13,16,148),(4,5,46)); lvl=7; h,r-ind=1,1
            [3,3]((9,11,102),(10,12,111),(13,16,148)); lvl=7; h,r-ind=1,1
            [3,3]((9,11,102),(13,16,148),(16,20,185)); lvl=7; h,r-ind=1,1
          [4,3]((8,10,93),(9,11,102),(3,4,37),(16,20,185)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((12,15,139),(16,20,185),(9,11,102)); lvl=7; h,r-ind=1,1
            [3,3]((8,10,93),(12,15,139),(9,11,102)); lvl=7; h,r-ind=1,1
            [3,3]((12,15,139),(3,4,37),(16,20,185)); lvl=7; h,r-ind=1,1
            [3,3]((8,10,93),(12,15,139),(3,4,37)); lvl=7; h,r-ind=1,1
        [3,3]((11,13,120),(10,12,111),(4,5,46)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,65),(11,13,120),(10,12,111)); lvl=5; h,r-ind=1,1
      [3,3]((2,2,19),(6,7,65),(3,4,38)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((3,4,38),(4,6,57),(2,3,28)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,11),(2,2,19),(2,3,32),(4,6,57)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,38),(2,3,29),(4,6,57)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,38),(1,1,10),(2,3,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,38),(2,2,19),(1,1,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,10),(2,3,29),(2,3,30)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,11),(1,1,10),(2,3,32),(2,3,30)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,10),(4,5,52),(2,3,31),(2,3,30)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,5,52),(2,3,31),(3,4,41)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,30),(2,3,31),(3,4,41)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,10),(2,3,30),(3,4,41)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,10),(4,5,52),(3,4,41)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,11),(1,1,10),(4,5,52)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,11),(4,5,52),(2,3,32),(2,3,31)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,32),(3,4,42),(2,3,31)); lvl=6; h,r-ind=1,1
          [3,3]((4,5,52),(3,4,42),(2,3,31)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,11),(2,3,32),(3,4,42)); lvl=6; h,r-ind=1,1
          [3,3]((4,5,52),(1,1,11),(3,4,42)); lvl=6; h,r-ind=1,1
[4,3]((1,2,21),(1,2,16),(2,3,25),(2,3,32)); lvl=2; h,r-ind=1,1
  [4,3]((2,4,37),(4,6,57),(1,2,16),(2,3,25)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,35),(1,2,16),(2,3,27),(2,3,25)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,17),(1,2,16),(2,3,25),(2,3,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,16),(2,3,25),(3,5,42)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,26),(2,3,25),(3,5,42)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,17),(1,2,16),(3,5,42)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,26),(1,2,17),(3,5,42)); lvl=6; h,r-ind=1,1
      [3,3]((1,2,17),(2,3,27),(2,3,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,17),(2,4,35),(2,3,27)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,18),(2,4,35),(2,3,27),(2,3,28)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,45),(2,3,27),(2,4,35)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,18),(3,5,45),(2,4,35)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,18),(3,5,45),(2,3,28)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,45),(2,3,28),(2,3,27)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,18),(3,5,47),(2,3,28)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,47),(4,6,57),(2,3,28)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,37),(1,2,18),(3,5,47)); lvl=4; h,r-ind=1,1
  [4,3]((1,2,21),(2,4,37),(2,3,32),(4,6,57)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,39),(1,2,19),(2,3,29),(2,3,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,49),(1,2,19),(2,3,29)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,30),(3,5,49),(2,3,29)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,39),(2,3,30),(3,5,49)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,39),(3,5,49),(1,2,19)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,21),(2,4,39),(2,3,32),(2,3,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,20),(2,3,31),(2,3,30)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,39),(1,2,20),(2,3,30)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,21),(1,2,20),(2,3,31),(2,3,32)); lvl=5; h,r-ind=1,1
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            [3,3]((1,2,20),(2,3,31),(3,5,52)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,32),(2,3,31),(3,5,52)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,21),(1,2,20),(3,5,52)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,32),(1,2,21),(3,5,52)); lvl=6; h,r-ind=1,1
        [3,3]((3,5,47),(1,2,19),(2,3,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,47),(4,6,57),(2,3,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,47),(2,4,37),(1,2,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,33),(1,1,11),(2,3,32)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,21),(2,3,33),(2,3,32)); lvl=2; h,r-ind=1,1
    [5,3]((1,2,16),(1,2,12),(1,1,6),(2,2,17),(2,3,25)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,14),(1,1,6),(2,2,15),(1,2,12)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,12),(1,2,13),(1,1,6),(1,1,7)); lvl=4; h,r-ind=1,1
          [3,3]((1,1,6),(1,1,7),(2,3,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,13),(1,1,7),(2,3,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,12),(1,1,6),(2,3,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,13),(1,2,12),(2,3,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,14),(1,2,13),(1,1,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,14),(2,2,15),(1,1,7)); lvl=4; h,r-ind=1,1
      [5,3]((1,2,16),(1,2,14),(4,6,49),(1,1,8),(2,2,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [4,3]((1,2,16),(1,2,15),(2,3,23),(2,3,24)); lvl=4; h,r-ind=1,1
          [3,3]((1,2,15),(2,3,23),(3,5,39)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,24),(2,3,23),(3,5,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,16),(1,2,15),(3,5,39)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,24),(1,2,16),(3,5,39)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,8),(4,5,38),(2,3,23),(2,3,24)); lvl=4; h,r-ind=1,2
          [3,3]((3,4,31),(4,5,38),(2,3,23)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,24),(3,4,31),(2,3,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,8),(2,3,24),(3,4,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,8),(3,4,31),(4,5,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,8),(2,2,15),(4,5,38)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,16),(4,6,49),(2,3,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,8),(4,6,49),(2,3,24)); lvl=4; h,r-ind=1,1
        [4,3]((4,5,38),(1,2,14),(1,2,15),(2,3,23)); lvl=4; h,r-ind=1,1
          [4,3]((5,7,52),(1,2,14),(1,2,15),(7,11,83)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc
            [4,3]((2,3,22),(8,13,97),(1,2,15),(1,2,14)); lvl=6; h,r-ind=1,3
              [3,3]((1,2,15),(3,5,37),(8,13,97)); lvl=7; h,r-ind=1,1
              [3,3]((2,3,22),(3,5,37),(8,13,97)); lvl=7; h,r-ind=1,1
              [3,3]((1,2,14),(1,2,15),(3,5,37)); lvl=7; h,r-ind=1,1
              [3,3]((2,3,22),(1,2,14),(3,5,37)); lvl=7; h,r-ind=1,1
            [4,3]((4,6,45),(8,13,97),(7,11,83),(1,2,15)); lvl=6; h,r-ind=1,3
              [3,3]((5,8,60),(1,2,15),(8,13,97)); lvl=7; h,r-ind=1,1
              [3,3]((4,6,45),(5,8,60),(8,13,97)); lvl=7; h,r-ind=1,1
              [3,3]((5,8,60),(7,11,83),(1,2,15)); lvl=7; h,r-ind=1,1
              [3,3]((4,6,45),(5,8,60),(7,11,83)); lvl=7; h,r-ind=1,1
            [3,3]((4,6,45),(2,3,22),(8,13,97)); lvl=6; h,r-ind=2,4; alert-r-inc; optimized-h
            [3,3]((4,6,45),(5,7,52),(2,3,22)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,23),(1,2,15),(7,11,83)); lvl=5; h,r-ind=1,1
          [4,3]((2,3,23),(4,5,38),(5,7,52),(7,11,83)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc
            [3,3]((4,6,45),(3,4,30),(5,7,52)); lvl=6; h,r-ind=1,1
            [3,3]((4,6,45),(11,16,121),(3,4,30)); lvl=6; h,r-ind=2,4; alert-r-inc; optimized-h
            [4,3]((2,3,23),(4,5,38),(11,16,121),(3,4,30)); lvl=6; h,r-ind=1,3
              [3,3]((5,7,53),(4,5,38),(3,4,30)); lvl=7; h,r-ind=1,1
              [3,3]((11,16,121),(5,7,53),(3,4,30)); lvl=7; h,r-ind=1,1
              [3,3]((2,3,23),(11,16,121),(5,7,53)); lvl=7; h,r-ind=1,1
              [3,3]((2,3,23),(5,7,53),(4,5,38)); lvl=7; h,r-ind=1,1
            [4,3]((2,3,23),(7,11,83),(4,6,45),(11,16,121)); lvl=6; h,r-ind=1,3
              [3,3]((4,6,45),(6,9,68),(7,11,83)); lvl=7; h,r-ind=1,1
              [3,3]((2,3,23),(6,9,68),(7,11,83)); lvl=7; h,r-ind=1,1
              [3,3]((11,16,121),(2,3,23),(6,9,68)); lvl=7; h,r-ind=1,1
              [3,3]((11,16,121),(4,6,45),(6,9,68)); lvl=7; h,r-ind=1,1
        [3,3]((2,2,15),(4,5,38),(1,2,14)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,16),(4,6,49),(2,3,25)); lvl=3; h,r-ind=1,1
      [4,3]((4,6,49),(2,3,25),(1,1,8),(2,2,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,1,8),(2,2,17),(3,4,33)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,25),(2,2,17),(3,4,33)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,49),(2,3,25),(3,4,33)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,49),(1,1,8),(3,4,33)); lvl=4; h,r-ind=1,1
  [3,3]((2,4,23),(1,2,12),(1,1,6)); lvl=2; h,r-ind=1,1
[3,3]((1,2,23),(2,3,33),(1,1,11)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(1,1,6),(1,1,11)); lvl=1; h,r-ind=5,5; optimized-h
[3,3]((1,2,23),(1,0,0),(1,1,11)); lvl=1; h,r-ind=1,1
[4,3]((0,1,0),(1,0,0),(1,1,6),(2,4,23)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,6),(1,0,0),(2,2,11)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,10),(1,2,6),(2,3,16),(1,0,0),(2,2,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,16),(1,1,5),(2,2,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,5),(2,2,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,9),(1,0,0),(1,1,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(2,2,9),(1,0,0)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,10),(2,3,16),(1,1,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,10),(1,2,8),(2,2,9),(1,1,5)); lvl=3; h,r-ind=1,1
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        [3,3]((3,4,18),(2,2,9),(1,2,8)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [3,3]((1,2,9),(3,4,18),(1,2,8)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [3,3]((3,4,18),(1,1,5),(2,2,9)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,10),(1,2,9),(3,4,18),(1,1,5)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,2,9),(3,4,18),(2,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(3,4,18),(2,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,10),(1,1,5),(2,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,10),(1,2,9),(2,3,14)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,6),(1,1,3),(1,2,8),(2,2,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,8),(1,1,4),(2,2,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,8),(1,2,7),(1,1,4)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,7),(1,2,6),(1,1,3),(1,1,4)); lvl=4; h,r-ind=1,1
          [3,3]((1,2,6),(1,1,3),(2,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(1,1,3),(2,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,7),(1,2,6),(2,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(1,2,7),(2,3,10)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,6),(1,0,0)); lvl=2; h,r-ind=6,18; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,2,10),(1,2,6)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,2,11),(2,3,16),(1,1,6),(2,2,11)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,6),(2,2,11),(3,4,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,16),(2,2,11),(3,4,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,11),(2,3,16),(3,4,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,11),(1,1,6),(3,4,22)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,23),(1,2,11),(1,1,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,10),(1,2,11),(2,3,16)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,10),(1,2,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,23),(0,1,0),(1,2,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,23),(1,2,21),(2,3,33)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,21),(2,4,23)); lvl=1; h,r-ind=19,19; optimized-h
  [3,3]((1,2,23),(0,1,0),(1,2,21)); lvl=1; h,r-ind=2,2; optimized-h
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23.15 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,23)); lvl=0; h,r-ind=23,529
  [5,3]((2,5,35),(2,5,37),(1,2,14),(2,3,22),(1,2,15)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,14),(2,3,22),(2,4,29)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,15),(2,3,22),(2,4,29)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,37),(1,2,15),(3,7,51),(5,11,80)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,80),(1,2,15),(4,9,66)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,37),(1,2,15),(4,9,66)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,51),(5,11,80),(4,9,66)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,51),(2,5,37),(4,9,66)); lvl=3; h,r-ind=1,1
    [4,3]((6,13,94),(5,11,79),(1,2,14),(2,4,29)); lvl=2; h,r-ind=1,1
      [3,3]((7,15,108),(1,2,14),(5,11,79)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,94),(7,15,108),(5,11,79)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,29),(7,15,108),(1,2,14)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,94),(2,4,29),(7,15,108)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,15),(5,11,80),(6,13,94),(2,4,29)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,80),(6,13,94),(7,15,109)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,29),(6,13,94),(7,15,109)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,15),(5,11,80),(7,15,109)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,29),(1,2,15),(7,15,109)); lvl=3; h,r-ind=1,1
    [6,3]((2,5,36),(3,7,50),(3,7,51),(5,11,80),(6,13,94),(5,11,79)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,79),(3,7,50),(4,9,65)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,36),(3,7,50),(4,9,65)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,36),(3,7,51),(4,9,65)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,79),(6,13,94),(4,9,65)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,80),(6,13,94),(4,9,65)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,51),(5,11,80),(4,9,65)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,37),(2,5,36),(3,7,51)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,35),(2,5,36),(3,7,50)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,35),(3,7,50),(5,11,79),(1,2,14)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,64),(5,11,79),(3,7,50)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,35),(4,9,64),(3,7,50)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,14),(4,9,64),(5,11,79)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,35),(1,2,14),(4,9,64)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,23),(2,5,37),(1,2,15)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,23),(1,3,20),(2,5,35),(2,5,37)); lvl=1; h,r-ind=1,1
    [4,3]((2,6,43),(2,5,36),(1,3,20),(2,5,35)); lvl=2; h,r-ind=1,1
      [3,3]((5,13,92),(2,5,36),(2,5,35)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,20),(5,13,92),(1,3,21),(2,5,35)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,21),(5,13,92),(3,8,56)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,35),(5,13,92),(3,8,56)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,20),(1,3,21),(3,8,56)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,35),(1,3,20),(3,8,56)); lvl=4; h,r-ind=1,1
      [3,3]((5,13,92),(1,3,21),(2,5,36)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,43),(1,3,21),(2,5,36)); lvl=3; h,r-ind=1,1
```

```
  [4,3]((1,3,23),(2,6,43),(2,5,36),(2,5,37)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,36),(1,3,22),(2,6,43)); lvl=3; h,r-ind=1,1
    [3,3]((5,13,95),(2,5,36),(1,3,22)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,23),(2,5,37),(5,13,95),(1,3,22)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,59),(2,5,37),(5,13,95)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,22),(3,8,59),(5,13,95)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,23),(3,8,59),(2,5,37)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,22),(1,3,23),(3,8,59)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,37),(5,13,95),(2,5,36)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,3,23),(1,3,20)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((1,0,0),(2,3,22),(1,2,15)); lvl=1; h,r-ind=1,1
[3,3]((1,3,23),(1,0,0),(1,2,15)); lvl=1; h,r-ind=1,1
[5,3]((1,3,20),(2,6,23),(2,5,35),(1,2,14),(1,2,8)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,20),(2,6,31),(2,5,27),(2,5,34)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,16),(2,6,31),(2,5,27)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,35),(1,3,16),(4,10,61),(2,5,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,17),(2,5,30),(2,5,29)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,16),(1,3,17),(2,5,27),(2,5,29)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,17),(4,11,61),(2,5,28),(2,5,29)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,8,45),(4,11,61),(2,5,28)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,29),(3,8,45),(2,5,28)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,17),(2,5,29),(3,8,45)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,17),(3,8,45),(4,11,61)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,16),(1,3,17),(4,11,61)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,16),(4,11,61),(2,5,27),(2,5,28)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,8,44),(2,5,27),(2,5,28)); lvl=6; h,r-ind=1,1
          [3,3]((4,11,61),(3,8,44),(2,5,28)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,16),(4,11,61),(3,8,44)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,16),(3,8,44),(2,5,27)); lvl=6; h,r-ind=1,1
      [3,3]((3,8,48),(1,3,17),(2,5,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,48),(4,10,61),(2,5,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,35),(3,8,48),(1,3,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,20),(2,6,35),(2,5,34),(4,10,61)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,18),(2,6,37),(2,5,32),(2,5,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,50),(2,5,32),(2,6,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,18),(3,8,50),(2,6,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,18),(2,5,31),(3,8,50)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,31),(3,8,50),(2,5,32)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,18),(3,8,48),(2,5,31)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,48),(4,10,61),(2,5,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,35),(1,3,18),(3,8,48)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,20),(2,6,37),(2,5,34),(2,5,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,19),(2,5,33),(2,5,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,19),(2,6,37),(2,5,32)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,20),(1,3,19),(2,5,33),(2,5,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,19),(2,5,33),(3,8,53)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,34),(2,5,33),(3,8,53)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,20),(1,3,19),(3,8,53)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,34),(1,3,20),(3,8,53)); lvl=6; h,r-ind=1,1
  [4,3]((1,2,14),(1,2,11),(2,5,27),(2,5,34)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,25),(4,10,61),(1,2,11),(2,5,27)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,11),(1,2,12),(2,5,29),(2,5,27)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,12),(4,9,51),(2,5,28),(2,5,29)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,7,40),(4,9,51),(2,5,28)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,29),(3,7,40),(2,5,28)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,12),(2,5,29),(3,7,40)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,12),(3,7,40),(4,9,51)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,11),(1,2,12),(4,9,51)); lvl=5; h,r-ind=1,1
        [4,3]((2,5,27),(1,2,11),(4,9,51),(2,5,28)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,7,39),(4,9,51),(1,2,11)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,27),(3,7,39),(1,2,11)); lvl=6; h,r-ind=1,1
          [3,3]((3,7,39),(2,5,28),(4,9,51)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,27),(3,7,39),(2,5,28)); lvl=6; h,r-ind=1,1
      [3,3]((1,2,12),(2,5,30),(2,5,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,43),(1,2,12),(2,5,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,43),(2,4,25),(1,2,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,43),(4,10,61),(2,5,30)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,14),(2,4,25),(2,5,34),(4,10,61)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,43),(4,10,61),(2,5,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,13),(3,7,43),(2,5,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,13),(2,5,32),(2,5,31)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,14),(1,2,13),(2,5,34),(2,5,32)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,13),(4,9,60),(2,5,33),(2,5,32)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,9,60),(2,5,33),(3,7,46)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,32),(2,5,33),(3,7,46)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,13),(2,5,32),(3,7,46)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,13),(4,9,60),(3,7,46)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,14),(1,2,13),(4,9,60)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,14),(4,9,60),(2,5,34),(2,5,33)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,34),(3,7,47),(2,5,33)); lvl=6; h,r-ind=1,1
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            [3,3]((4,9,60),(3,7,47),(2,5,33)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,14),(4,9,60),(3,7,47)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,14),(2,5,34),(3,7,47)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,13),(2,4,25),(3,7,43)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,20),(2,5,35),(2,5,34)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,14),(2,5,35),(2,5,34)); lvl=2; h,r-ind=1,1
    [5,3]((1,2,8),(1,2,11),(1,3,12),(2,6,31),(2,5,27)); lvl=2; h,r-ind=1,1
      [4,3]((4,10,53),(1,3,15),(2,6,31),(2,5,27)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,42),(2,6,31),(1,3,15)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,53),(3,8,42),(1,3,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,27),(4,10,53),(3,8,42)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,27),(3,8,42),(2,6,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,11),(4,10,53),(2,5,27)); lvl=3; h,r-ind=1,1
      [5,3]((1,2,11),(4,10,53),(2,4,19),(1,3,15),(1,3,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,11,54),(1,3,15),(1,3,14)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,10),(2,5,25),(4,11,54),(1,3,14)); lvl=4; h,r-ind=1,1
          [3,3]((2,5,25),(4,11,54),(3,8,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,14),(4,11,54),(3,8,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,10),(2,5,25),(3,8,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,14),(1,2,10),(3,8,39)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,19),(1,2,10),(1,3,14)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,25),(4,11,54),(1,3,15),(2,5,26)); lvl=4; h,r-ind=1,2
          [3,3]((1,3,15),(3,8,40),(4,11,54)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,25),(3,8,40),(4,11,54)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,26),(1,3,15),(3,8,40)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,25),(2,5,26),(3,8,40)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,11),(1,2,10),(2,5,25),(2,5,26)); lvl=4; h,r-ind=1,1
          [3,3]((1,2,10),(2,5,25),(3,7,36)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,26),(2,5,25),(3,7,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,11),(1,2,10),(3,7,36)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,26),(1,2,11),(3,7,36)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,53),(1,3,15),(2,5,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,11),(4,10,53),(2,5,26)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,8),(2,4,19),(1,3,12),(1,3,14)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,9),(1,3,13),(1,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,9),(2,4,19),(1,3,14)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,8),(1,2,9),(1,3,12),(1,3,13)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,12),(1,3,13),(2,5,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,9),(1,3,13),(2,5,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,8),(1,3,12),(2,5,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,9),(1,2,8),(2,5,21)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,8),(2,6,23),(1,3,12)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,20),(2,6,23)); lvl=1; h,r-ind=17,17; optimized-h
  [4,3]((0,1,0),(1,0,0),(2,6,23),(1,2,8)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,11),(1,1,4),(1,2,7),(1,2,8)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,7),(1,1,4),(2,4,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(1,1,4),(2,4,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,11),(1,2,7),(2,4,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(1,3,11),(2,4,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,23),(1,3,11),(1,2,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,11),(1,3,9),(1,2,7)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,3,11),(1,3,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,6,23),(0,1,0),(1,3,11)); lvl=2; h,r-ind=1,1
    [5,3]((1,3,6),(1,3,9),(1,0,0),(1,1,4),(1,2,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,3),(1,0,0),(1,1,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,3),(2,3,9),(2,3,10),(1,1,4)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,9),(2,3,10),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(2,3,10),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(2,3,9),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(1,1,3),(3,4,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(2,3,10),(1,1,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,3),(3,5,14),(2,3,8),(2,3,9)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,8),(3,5,14),(4,6,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(3,5,14),(4,6,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(2,3,8),(4,6,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(1,1,3),(4,6,17)); lvl=4; h,r-ind=1,1
      [6,3]((1,3,6),(2,6,15),(2,4,11),(2,3,6),(3,5,14),(2,3,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,5),(2,5,13),(2,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(3,5,14),(2,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(1,2,5),(3,5,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(2,3,8),(1,2,5)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,4),(2,3,6),(2,3,7),(1,2,5)); lvl=4; h,r-ind=1,1
          [3,3]((2,3,6),(2,3,7),(3,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(2,3,7),(3,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,4),(2,3,6),(3,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(1,2,4),(3,5,11)); lvl=5; h,r-ind=1,1
        [4,3]((2,6,15),(1,3,7),(1,2,5),(2,5,13)); lvl=4; h,r-ind=1,1
          [3,3]((3,8,20),(1,3,7),(1,2,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,13),(3,8,20),(1,2,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,15),(2,5,13),(3,8,20)); lvl=5; h,r-ind=1,1
```

```
        [3,3]((2,6,15),(3,8,20),(1,3,7)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,6),(1,3,7),(1,2,4),(1,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(1,2,5),(2,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(1,2,5),(2,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(1,2,4),(2,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(1,3,6),(2,5,11)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,7),(2,3,9),(1,2,6),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(2,3,9),(3,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(2,3,9),(3,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(1,2,6),(3,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(1,2,7),(3,5,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,9),(1,2,7),(1,2,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,11),(3,5,14),(2,3,9),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,20),(2,3,9),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,11),(4,7,20),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(4,7,20),(2,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,11),(1,2,6),(4,7,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,9),(2,6,15),(2,4,11),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,19),(2,5,13),(2,4,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,6),(3,7,19),(5,12,33),(2,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,33),(4,9,25),(3,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,11),(4,9,25),(3,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(2,4,11),(4,9,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(5,12,33),(4,9,25)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,8),(1,3,9),(1,2,6),(5,12,33)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((1,2,6),(2,5,14),(1,3,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(2,5,14),(1,3,9)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,33),(1,2,6),(2,5,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(5,12,33),(2,5,14)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,8),(3,7,19),(5,12,33),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,27),(5,12,33),(3,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,13),(4,10,27),(3,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(2,5,13),(4,10,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(4,10,27),(5,12,33)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,8),(2,6,15),(2,5,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,3),(2,3,6),(2,3,8),(1,0,0)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(2,3,8),(2,3,7)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,10),(1,1,2),(5,6,15),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(4,5,12),(5,6,15)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,10),(4,5,12),(5,6,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,7),(3,4,10),(4,5,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,7),(1,1,2),(4,5,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(2,3,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,3),(1,0,0),(1,1,2),(5,6,15)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((1,0,0),(1,1,2),(2,2,5)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,15),(1,1,2),(2,2,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(5,6,15),(2,2,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(1,0,0),(2,2,5)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,3),(3,4,10),(5,6,15),(2,3,8)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,13),(5,6,15),(3,4,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,8),(4,5,13),(3,4,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(2,3,8),(4,5,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(4,5,13),(5,6,15)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,6),(1,0,0)); lvl=2; h,r-ind=6,12; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,3,6),(1,3,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[4,3]((1,0,0),(1,2,14),(2,3,22),(1,2,8)); lvl=1; h,r-ind=2,2
  [3,3]((2,3,22),(1,1,7),(1,2,14)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,11),(1,1,6),(1,1,7),(1,2,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,6),(4,5,32),(1,1,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,25),(1,2,14),(4,5,32),(1,1,7)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,1,7),(1,2,14),(1,2,13),(5,7,46)); lvl=4; h,r-ind=1,3
        [3,3]((1,2,13),(2,3,20),(1,2,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,7),(2,3,20),(1,2,14)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,46),(1,2,13),(2,3,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,7),(5,7,46),(2,3,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,19),(1,2,13),(5,7,46)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,4,25),(2,3,19),(1,2,13)); lvl=4; h,r-ind=1,1
      [4,3]((4,5,32),(2,3,19),(1,1,7),(5,7,46)); lvl=4; h,r-ind=1,3
        [3,3]((3,4,26),(2,3,19),(5,7,46)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,26),(1,1,7),(5,7,46)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,32),(3,4,26),(1,1,7)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,32),(3,4,26),(2,3,19)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,11),(2,4,25),(1,1,6),(4,5,32)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,1,6),(5,7,43),(2,3,19),(4,5,32)); lvl=4; h,r-ind=1,3
        [3,3]((5,7,43),(3,4,25),(2,3,19)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,32),(3,4,25),(2,3,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,6),(4,5,32),(3,4,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,6),(5,7,43),(3,4,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,12),(5,7,43),(2,3,19)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((1,2,12),(2,4,25),(2,3,19)); lvl=4; h,r-ind=1,1
```

```
        [4,3]((1,1,6),(1,2,11),(1,2,12),(5,7,43)); lvl=4; h,r-ind=1,3
          [3,3]((1,2,12),(2,3,18),(1,2,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(2,3,18),(1,2,11)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,43),(1,2,12),(2,3,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(5,7,43),(2,3,18)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,8),(1,1,4),(1,2,11),(1,1,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,11),(2,4,19),(1,1,6),(1,1,5)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,21),(1,1,5),(1,1,6)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,11),(1,2,10),(3,4,21),(1,1,6)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,2,10),(3,4,21),(2,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(3,4,21),(2,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,11),(1,1,6),(2,3,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,11),(1,2,10),(2,3,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,10),(3,4,21),(1,1,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,10),(2,4,19),(1,1,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,8),(2,4,19),(1,1,4),(1,1,5)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,5),(1,1,4),(3,4,18)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,8),(1,2,9),(1,1,4),(3,4,18)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,13),(1,2,9),(3,4,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(2,3,13),(3,4,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,8),(2,3,13),(1,2,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(1,2,8),(2,3,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,9),(1,1,5),(3,4,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,9),(2,4,19),(1,1,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,4),(1,1,6)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,0,0),(1,1,6),(1,1,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,22),(1,1,7)); lvl=2; h,r-ind=1,1
```

23.16 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,4,23)); lvl=0; h,r-ind=23,529
  [5,3]((1,2,11),(1,3,15),(2,7,35),(1,3,17),(2,7,39)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,16),(2,7,37),(2,7,39)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,17),(1,3,16),(2,7,39)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,11),(1,3,17),(1,3,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,35),(1,3,16),(2,7,37)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,15),(2,7,35),(1,3,16)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,11),(1,3,15),(1,3,16)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,23),(1,3,17),(2,7,39)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,23),(1,4,19),(2,7,35),(2,7,39)); lvl=1; h,r-ind=4,1
    [4,3]((1,4,21),(2,7,37),(1,4,19),(2,7,35)); lvl=2; h,r-ind=2,1
      [4,3]((1,4,20),(1,4,19),(2,7,36),(2,7,35)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,36),(2,7,35),(3,11,55)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,19),(2,7,35),(3,11,55)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,20),(1,4,19),(3,11,55)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,20),(2,7,36),(3,11,55)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,21),(1,4,20),(2,7,36),(2,7,37)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,20),(2,7,36),(3,11,57)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,37),(2,7,36),(3,11,57)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,21),(1,4,20),(3,11,57)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,37),(1,4,21),(3,11,57)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,23),(1,4,21),(2,7,39),(2,7,37)); lvl=2; h,r-ind=2,1
      [4,3]((1,4,22),(1,4,21),(2,7,38),(2,7,37)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,38),(2,7,37),(3,11,59)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,21),(2,7,37),(3,11,59)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,22),(1,4,21),(3,11,59)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,22),(2,7,38),(3,11,59)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,23),(1,4,22),(2,7,38),(2,7,39)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,22),(2,7,38),(3,11,61)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,39),(2,7,38),(3,11,61)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,23),(1,4,22),(3,11,61)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,39),(1,4,23),(3,11,61)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,11),(1,3,17)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,23),(1,0,0),(1,3,17)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(1,3,9),(1,2,11),(1,3,15)); lvl=1; h,r-ind=3,3
    [4,3]((1,3,12),(2,4,17),(1,2,10),(1,3,15)); lvl=2; h,r-ind=3,1
      [4,3]((1,3,15),(2,6,27),(1,2,10),(1,2,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,10),(1,2,9),(3,7,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,14),(1,2,9),(3,7,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,14),(2,6,27),(1,2,9)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,15),(1,3,14),(1,2,10),(3,7,33)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,24),(3,7,33),(1,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,15),(2,5,24),(1,3,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,10),(2,5,24),(3,7,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,15),(1,2,10),(2,5,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,12),(2,6,27),(1,2,9)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((1,3,12),(2,4,17),(1,2,9)); lvl=3; h,r-ind=1,1
```

```
[3,3]((1,2,11),(1,2,10),(1,3,15)); lvl=2; h,r-ind=1,1
[4,3]((2,4,17),(1,2,10),(2,3,13),(2,3,15)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,10),(1,2,9),(2,3,15),(2,3,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,15),(2,3,14),(3,5,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,9),(2,3,14),(3,5,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,10),(1,2,9),(3,5,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,10),(2,3,15),(3,5,24)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,9),(2,3,13),(2,3,14)); lvl=3; h,r-ind=1,1
  [3,3]((2,4,17),(1,2,9),(2,3,13)); lvl=3; h,r-ind=1,1
[5,3]((1,3,9),(2,3,9),(1,3,12),(2,4,17),(2,3,13)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,8),(2,3,13),(2,3,11),(2,4,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,27),(2,3,11),(2,3,12)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,2,8),(4,7,27),(2,3,13),(2,3,12)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,20),(2,3,13),(2,3,12)); lvl=5; h,r-ind=1,1
      [3,3]((4,7,27),(3,5,20),(2,3,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,8),(4,7,27),(3,5,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,8),(3,5,20),(2,3,13)); lvl=5; h,r-ind=1,1
    [3,3]((2,4,15),(4,7,27),(2,3,11)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,8),(2,4,15),(4,7,27)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,9),(1,2,6),(2,3,11),(2,4,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,11),(1,2,7),(2,4,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,10),(2,3,11),(1,2,7)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,9),(2,3,10),(1,2,6),(1,2,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,16),(1,2,7),(1,2,6)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,9),(3,5,16),(1,2,6)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,10),(3,5,16),(1,2,7)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,9),(2,3,10),(3,5,16)); lvl=5; h,r-ind=1,1
  [4,3]((1,3,9),(1,2,6),(2,6,21),(2,4,15)); lvl=3; h,r-ind=3,1; alert-h-inc
    [3,3]((2,5,18),(2,4,15),(1,2,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,10),(2,5,18),(1,2,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,9),(1,3,10),(1,2,6),(1,2,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(1,2,7),(2,5,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,10),(1,2,7),(2,5,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,9),(1,2,6),(2,5,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,10),(1,3,9),(2,5,16)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,10),(2,6,21),(2,5,18)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,12),(2,6,21),(1,2,8),(2,4,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,26),(2,4,15),(2,5,18)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,11),(3,7,26),(5,12,45),(2,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,45),(4,10,37),(3,7,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,18),(4,10,37),(3,7,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,11),(2,5,18),(4,10,37)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,11),(5,12,45),(4,10,37)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,11),(2,6,21),(2,5,18)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,8),(3,7,26),(5,12,45),(2,4,15)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,45),(4,9,34),(3,7,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,15),(4,9,34),(3,7,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,8),(2,4,15),(4,9,34)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,8),(5,12,45),(4,9,34)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,12),(1,3,11),(1,2,8),(5,12,45)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((1,3,11),(5,12,45),(2,5,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,8),(5,12,45),(2,5,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,12),(1,2,8),(2,5,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,12),(1,3,11),(2,5,19)); lvl=5; h,r-ind=1,1
  [3,3]((2,4,17),(1,2,8),(2,3,13)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,12),(2,4,17),(1,2,8)); lvl=3; h,r-ind=1,1
[4,3]((1,1,5),(2,2,9),(2,3,13),(2,3,15)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,23),(2,2,9),(2,3,13)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,3,14),(4,5,23),(2,3,13)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,1,5),(2,3,15),(2,3,14),(4,5,23)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((2,3,15),(3,4,19),(2,3,14)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,23),(3,4,19),(2,3,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,5),(2,3,15),(3,4,19)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,23),(1,1,5),(3,4,19)); lvl=4; h,r-ind=1,1
  [3,3]((1,1,5),(4,5,23),(2,2,9)); lvl=3; h,r-ind=1,1
[3,3]((1,2,11),(1,1,5),(2,3,15)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,1,5),(2,2,9)); lvl=2; h,r-ind=1,1
[3,3]((1,2,11),(1,0,0),(1,1,5)); lvl=2; h,r-ind=1,1
[4,3]((1,0,0),(2,3,9),(2,2,9),(2,3,13)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,11),(2,3,13),(1,1,4)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,2,9),(2,3,13),(1,1,4)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,9),(1,1,4)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,3),(2,3,9),(2,3,11),(1,1,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,4),(4,5,17),(2,3,10),(2,3,11)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,14),(4,5,17),(2,3,10)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,11),(3,4,14),(2,3,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,4),(2,3,11),(3,4,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,4),(3,4,14),(4,5,17)); lvl=5; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,4),(4,5,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,3),(4,5,17),(2,3,9),(2,3,10)); lvl=4; h,r-ind=1,2; alert-r-inc
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          [3,3]((2,3,9),(3,4,13),(2,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,17),(3,4,13),(2,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(2,3,9),(3,4,13)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,17),(1,1,3),(3,4,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,3),(1,1,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,11),(1,2,10),(2,3,15)); lvl=2; h,r-ind=1,1
  [5,3]((1,4,19),(2,8,23),(1,3,9),(1,3,15),(2,7,35)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,15),(4,14,55),(1,3,12),(2,7,34)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,12),(2,7,28),(4,14,55)); lvl=3; h,r-ind=1,1
      [4,3]((2,6,27),(4,14,61),(1,3,12),(2,7,28)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,13),(1,3,12),(4,14,59),(2,7,28)); lvl=4; h,r-ind=1,1
          [4,3]((1,3,12),(4,13,54),(2,7,29),(2,7,28)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((4,13,54),(2,7,29),(3,10,41)); lvl=6; h,r-ind=1,1
            [3,3]((2,7,28),(2,7,29),(3,10,41)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,12),(2,7,28),(3,10,41)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,12),(4,13,54),(3,10,41)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,13),(1,3,12),(4,13,54)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,13),(4,13,54),(2,7,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,13),(4,14,59),(2,7,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,13),(2,7,30),(4,14,59)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,44),(1,3,13),(2,7,30)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,44),(4,14,61),(2,7,30)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,44),(2,6,27),(1,3,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,15),(2,6,27),(2,7,34),(4,14,61)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,14),(2,7,32),(2,7,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,14),(3,10,44),(2,7,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,44),(4,14,61),(2,7,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,14),(2,6,27),(3,10,44)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,14),(1,3,15),(2,7,34),(2,7,32)); lvl=4; h,r-ind=1,1
          [4,3]((1,3,15),(4,13,62),(2,7,33),(2,7,34)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,10,48),(4,13,62),(2,7,33)); lvl=6; h,r-ind=1,1
            [3,3]((2,7,34),(3,10,48),(2,7,33)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,15),(2,7,34),(3,10,48)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,15),(3,10,48),(4,13,62)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,14),(1,3,15),(4,13,62)); lvl=5; h,r-ind=1,1
          [4,3]((2,7,32),(1,3,14),(4,13,62),(2,7,33)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,10,47),(4,13,62),(1,3,14)); lvl=6; h,r-ind=1,1
            [3,3]((2,7,32),(3,10,47),(1,3,14)); lvl=6; h,r-ind=1,1
            [3,3]((3,10,47),(2,7,33),(4,13,62)); lvl=6; h,r-ind=1,1
            [3,3]((2,7,32),(3,10,47),(2,7,33)); lvl=6; h,r-ind=1,1
    [3,3]((2,7,35),(1,3,15),(2,7,34)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,19),(2,7,35),(2,7,34)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,19),(1,4,15),(4,14,55),(2,7,34)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,17),(1,4,15),(2,7,28),(4,14,61)); lvl=3; h,r-ind=1,1
        [4,3]((1,4,16),(4,14,59),(1,4,15),(2,7,28)); lvl=4; h,r-ind=1,1
          [4,3]((1,4,15),(2,7,29),(2,7,28),(4,15,60)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,11,44),(2,7,29),(2,7,28)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,15),(3,11,44),(2,7,28)); lvl=6; h,r-ind=1,1
            [3,3]((4,15,60),(3,11,44),(2,7,29)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,15),(4,15,60),(3,11,44)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,16),(1,4,15),(4,15,60)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,16),(2,7,29),(4,15,60)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,16),(2,7,29),(4,14,59)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,17),(1,4,16),(2,7,30),(4,14,59)); lvl=4; h,r-ind=1,1
          [3,3]((3,11,46),(2,7,30),(4,14,59)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,16),(3,11,46),(4,14,59)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,17),(3,11,46),(2,7,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,16),(1,4,17),(3,11,46)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,17),(4,14,61),(2,7,30)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,19),(1,4,17),(2,7,34),(4,14,61)); lvl=3; h,r-ind=1,1
        [4,3]((1,4,17),(1,4,18),(2,7,31),(2,7,32)); lvl=4; h,r-ind=1,1
          [3,3]((2,7,31),(2,7,32),(3,11,49)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,18),(2,7,32),(3,11,49)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,17),(2,7,31),(3,11,49)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,18),(1,4,17),(3,11,49)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,19),(1,4,18),(2,7,34),(2,7,32)); lvl=4; h,r-ind=1,1
          [4,3]((1,4,18),(4,15,70),(2,7,32),(2,7,33)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,11,51),(2,7,32),(2,7,33)); lvl=6; h,r-ind=1,1
            [3,3]((4,15,70),(3,11,51),(2,7,33)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,18),(4,15,70),(3,11,51)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,18),(3,11,51),(2,7,32)); lvl=6; h,r-ind=1,1
          [4,3]((1,4,19),(4,15,70),(2,7,34),(2,7,33)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,7,34),(3,11,52),(2,7,33)); lvl=6; h,r-ind=1,1
            [3,3]((4,15,70),(3,11,52),(2,7,33)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,19),(4,15,70),(3,11,52)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,19),(2,7,34),(3,11,52)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,19),(1,4,18),(4,15,70)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,17),(4,14,61),(2,7,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,15),(4,14,55),(2,7,28)); lvl=3; h,r-ind=1,1
    [5,3]((1,4,15),(1,4,12),(1,3,9),(4,14,55),(1,3,12)); lvl=2; h,r-ind=1,1
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    [4,3]((2,6,21),(2,7,27),(4,14,49),(1,3,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,11),(1,3,12),(2,7,27),(4,14,51)); lvl=4; h,r-ind=1,1
        [4,3]((4,13,49),(1,3,12),(2,7,26),(2,7,27)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,10,38),(2,7,26),(2,7,27)); lvl=6; h,r-ind=1,1
          [3,3]((3,10,38),(1,3,12),(2,7,27)); lvl=6; h,r-ind=1,1
          [3,3]((4,13,49),(3,10,38),(1,3,12)); lvl=6; h,r-ind=1,1
          [3,3]((4,13,49),(3,10,38),(2,7,26)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,11),(4,13,49),(2,7,26)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,51),(1,3,11),(2,7,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,11),(4,13,49),(1,3,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,11),(2,7,25),(4,14,51)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,11),(3,10,35),(2,7,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,35),(4,14,49),(2,7,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,21),(1,3,11),(3,10,35)); lvl=4; h,r-ind=1,1
    [5,3]((1,4,12),(2,8,27),(1,3,9),(2,6,21),(4,14,49)); lvl=3; h,r-ind=1,1
      [4,3]((3,11,38),(2,7,24),(4,14,49),(3,10,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,24),(3,10,35),(6,21,73)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,49),(3,10,35),(6,21,73)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,38),(2,7,24),(6,21,73)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,49),(3,11,38),(6,21,73)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,10),(2,6,21),(2,7,24),(3,10,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,21),(3,10,35),(4,13,45)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,24),(3,10,35),(4,13,45)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(2,7,24),(4,13,45)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(2,6,21),(4,13,45)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,13),(1,3,10),(2,7,24)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,12),(1,4,13),(1,3,9),(1,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(1,3,10),(2,7,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,13),(1,3,10),(2,7,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,12),(1,3,9),(2,7,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,13),(1,4,12),(2,7,22)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,13),(2,8,27),(3,11,38),(2,7,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,27),(3,11,38),(4,15,51)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,24),(3,11,38),(4,15,51)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,13),(2,8,27),(4,15,51)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,24),(1,4,13),(4,15,51)); lvl=5; h,r-ind=1,1
    [3,3]((4,14,55),(2,7,27),(1,3,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,15),(4,14,55),(2,7,27)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,15),(2,8,27),(2,7,27),(4,14,49)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,14),(2,7,25),(4,14,51)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,15),(1,4,14),(2,7,27),(4,14,51)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,14),(2,7,26),(4,14,51)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,55),(1,4,14),(2,7,26)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,15),(4,15,55),(2,7,27),(2,7,26)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,7,27),(3,11,41),(2,7,26)); lvl=6; h,r-ind=1,1
          [3,3]((4,15,55),(3,11,41),(2,7,26)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,15),(4,15,55),(3,11,41)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,15),(2,7,27),(3,11,41)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,15),(4,15,55),(1,4,14)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,38),(1,4,14),(2,7,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,38),(4,14,49),(2,7,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,38),(2,8,27),(1,4,14)); lvl=4; h,r-ind=1,1
  [3,3]((2,8,23),(1,4,12),(1,3,9)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,4,19),(2,8,23)); lvl=1; h,r-ind=15,15; optimized-h
[3,3]((1,4,23),(0,1,0),(1,4,19)); lvl=1; h,r-ind=4,4; optimized-h
[4,3]((0,1,0),(1,0,0),(2,8,23),(1,3,9)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,11),(2,5,13),(2,3,9),(1,3,9)); lvl=2; h,r-ind=3,1; alert-h-inc
    [3,3]((1,3,8),(2,4,11),(2,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(1,2,6),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(2,3,9),(2,4,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,8),(1,4,11),(1,2,6),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,11),(1,3,9),(2,6,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(1,3,9),(2,6,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(1,4,11),(2,6,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(1,3,8),(2,6,17)); lvl=4; h,r-ind=1,1
  [3,3]((2,8,23),(1,4,11),(1,3,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,11),(1,4,8),(2,5,13)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,4,11),(1,4,8)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,8,23),(0,1,0),(1,4,11)); lvl=2; h,r-ind=1,1
  [5,3]((1,4,6),(1,4,8),(2,5,13),(1,0,0),(2,3,9)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((1,1,3),(2,3,9),(2,4,11),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(2,4,11),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,11),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,9),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(1,1,3),(3,5,14)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,13),(1,3,7),(2,4,11),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,11),(3,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(2,4,11),(3,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,13),(3,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(1,2,5),(3,7,18)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,2,4),(1,3,7),(1,2,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,7),(1,4,8),(1,2,4),(1,3,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,6),(1,3,7),(1,4,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(1,3,6),(1,4,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,2,4),(1,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(1,3,6),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,4,7),(1,2,4)); lvl=3; h,r-ind=2,2; alert-r-inc; optimized-h
      [3,3]((1,2,3),(1,4,6),(1,2,4)); lvl=3; h,r-ind=2,2; alert-r-inc; optimized-h
      [3,3]((1,2,4),(1,1,3),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,0,0),(1,1,3)); lvl=3; h,r-ind=2,2; alert-r-inc; optimized-h
      [3,3]((1,2,3),(1,2,4),(1,0,0)); lvl=3; h,r-ind=2,2; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,4,6),(1,0,0)); lvl=2; h,r-ind=6,18; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,4,6),(1,4,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
```

23.17 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,5,23)); lvl=0; h,r-ind=23,529
  [5,3]((2,5,21),(1,3,13),(2,3,13),(2,6,27),(1,2,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,22),(1,2,9),(2,6,27)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,13),(2,5,22),(2,6,27)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,21),(1,3,13),(5,12,52),(3,7,30)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,13),(4,10,43),(5,12,52)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,30),(4,10,43),(5,12,52)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,30),(2,5,21),(4,10,43)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,21),(1,3,13),(4,10,43)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,22),(6,14,61),(5,11,48),(1,2,9)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,48),(6,14,61),(7,16,70)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,22),(6,14,61),(7,16,70)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,9),(2,5,22),(7,16,70)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,9),(5,11,48),(7,16,70)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,13),(3,6,26),(5,11,48),(1,2,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,6,26),(4,8,35),(5,11,48)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,9),(4,8,35),(5,11,48)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(3,6,26),(4,8,35)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,9),(2,3,13),(4,8,35)); lvl=3; h,r-ind=1,1
    [6,3]((2,4,17),(5,12,52),(3,7,30),(6,14,61),(3,6,26),(5,11,48)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,39),(3,6,26),(2,4,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,30),(4,9,39),(2,4,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,52),(3,7,30),(4,9,39)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,39),(5,11,48),(3,6,26)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,39),(5,11,48),(6,14,61)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,52),(4,9,39),(6,14,61)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,13),(2,4,17),(3,6,26)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,21),(2,4,17),(3,7,30)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,13),(5,12,52),(2,5,22),(6,14,61)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,52),(6,14,61),(7,17,74)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,22),(6,14,61),(7,17,74)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,13),(5,12,52),(7,17,74)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,22),(1,3,13),(7,17,74)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,23),(2,6,27),(1,2,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,13),(1,2,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,23),(1,0,0),(1,2,9)); lvl=1; h,r-ind=1,1
  [4,3]((1,5,23),(1,4,17),(1,3,13),(2,6,27)); lvl=1; h,r-ind=1,2
    [3,3]((1,4,18),(1,4,17),(1,3,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,18),(2,6,27),(1,3,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,23),(1,4,18),(2,6,27)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,23),(1,4,18),(1,4,17)); lvl=2; h,r-ind=1,1
  [5,3]((2,6,15),(1,3,12),(1,0,0),(2,5,21),(2,3,13)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,8),(2,3,12),(2,5,21),(2,4,17)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,12),(3,6,25),(2,4,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,21),(3,6,25),(2,4,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(2,3,12),(3,6,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,21),(1,2,8),(3,6,25)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,4),(2,3,12),(2,3,13),(2,4,17)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,21),(2,3,12),(2,4,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(3,5,21),(2,4,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(3,5,21),(2,3,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(2,3,13),(3,5,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,4),(1,0,0),(2,3,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,7),(1,1,4),(1,0,0)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,10),(2,3,9),(2,2,7),(1,0,0)); lvl=2; h,r-ind=1,1
      [4,3]((2,2,7),(1,1,3),(1,0,0),(5,6,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,10),(1,1,3),(1,0,0)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,7),(3,3,10),(1,0,0)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,20),(3,3,10),(1,1,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,7),(5,6,20),(3,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(2,2,7),(5,6,20)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,3,10),(1,1,3),(5,6,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(2,3,9),(1,1,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,9),(1,0,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,3,10),(2,2,7),(1,1,4),(2,3,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,18),(2,2,7),(1,1,4)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,12),(2,3,11),(4,5,18),(1,1,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,15),(4,5,18),(2,3,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,12),(3,4,15),(2,3,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(2,3,12),(3,4,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(3,4,15),(4,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(2,3,11),(4,5,18)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,3,10),(4,5,18),(2,2,7)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,4,13),(2,3,10),(1,2,8),(2,3,12)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,7),(1,2,8),(2,3,12),(2,3,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,8),(2,3,12),(3,5,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(2,3,12),(3,5,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(1,2,8),(3,5,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(1,2,7),(3,5,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(2,3,10),(2,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,13),(1,2,7),(2,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,8),(1,3,12),(2,5,21)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,13),(2,6,19),(1,2,8),(1,3,12)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,7),(1,2,8),(1,3,12),(2,6,21)); lvl=3; h,r-ind=1,1
        [4,3]((3,7,26),(1,2,8),(1,3,11),(1,3,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,3,11),(1,3,12),(2,5,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,8),(1,3,12),(2,5,19)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,26),(1,3,11),(2,5,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,8),(3,7,26),(2,5,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(3,7,26),(1,3,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,21),(1,2,7),(1,3,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(3,7,26),(1,2,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(1,3,10),(2,6,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(2,5,16),(1,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,16),(2,6,19),(1,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,13),(1,2,7),(2,5,16)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,6),(2,4,13),(2,3,10),(2,3,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,16),(2,3,10),(2,4,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(3,5,16),(2,4,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(2,3,9),(3,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(3,5,16),(2,3,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(1,3,8),(1,2,6),(2,3,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,8),(2,4,11),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(2,4,11),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,9),(2,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,3,8),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(1,3,8),(2,6,15)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,8),(1,2,6),(2,4,13),(2,6,19)); lvl=2; h,r-ind=1,1
      [4,3]((5,12,37),(3,7,22),(2,4,13),(1,2,6)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,22),(2,4,13),(4,9,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,4,13),(4,9,28)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,37),(3,7,22),(4,9,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(5,12,37),(4,9,28)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,8),(1,3,9),(5,12,37),(1,2,6)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,5,15),(1,3,9),(5,12,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,5,15),(5,12,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(2,5,15),(1,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(1,3,8),(2,5,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,16),(3,7,22),(2,4,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,9),(5,12,37),(2,5,16),(3,7,22)); lvl=3; h,r-ind=1,1
        [3,3]((5,12,37),(4,10,31),(3,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,16),(4,10,31),(3,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(2,5,16),(4,10,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(5,12,37),(4,10,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(2,6,19),(2,5,16)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(2,10,23),(2,6,15),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,6,15),(1,2,5),(2,8,19),(1,4,9)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((2,7,17),(1,3,7),(1,4,9),(2,8,19)); lvl=3; h,r-ind=1,1
        [3,3]((3,11,26),(1,4,9),(1,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,17),(3,11,26),(1,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,26),(2,8,19),(1,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,17),(3,11,26),(2,8,19)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,15),(2,7,17),(1,2,5),(1,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((3,9,22),(1,3,7),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,15),(3,9,22),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(2,6,15),(3,9,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(3,9,22),(1,3,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,11),(2,10,23),(2,8,19),(1,4,9)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,9),(4,18,41),(2,8,19),(2,9,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,18,41),(3,13,30),(2,9,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,19),(3,13,30),(2,9,21)); lvl=4; h,r-ind=1,1
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      [3,3]((1,4,9),(2,8,19),(3,13,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(4,18,41),(3,13,30)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,11),(4,18,41),(2,10,23),(2,9,21)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,18,41),(3,14,32),(2,9,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,23),(3,14,32),(2,9,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(2,10,23),(3,14,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(4,18,41),(3,14,32)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,11),(1,4,9),(4,18,41)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,7),(2,7,14),(1,5,11),(1,4,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc
    [3,3]((2,7,14),(1,4,8),(1,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,11),(1,4,8),(1,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,11),(1,5,9),(1,4,8)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((1,4,7),(2,7,14),(1,4,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,7),(1,5,9),(1,4,7),(1,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(3,13,23),(1,4,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,8),(1,5,9),(3,13,23),(1,4,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,9),(2,9,16),(1,4,8)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,23),(2,9,16),(1,4,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(3,13,23),(2,9,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(1,5,9),(2,9,16)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,7),(1,5,8),(1,4,7),(3,13,23)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,8),(3,13,23),(2,9,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(3,13,23),(2,9,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(1,5,8),(2,9,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(1,5,7),(2,9,15)); lvl=5; h,r-ind=1,1
[3,3]((0,1,0),(1,5,7),(1,5,11)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
[3,3]((0,1,0),(1,5,7),(1,5,6)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,5,11),(2,10,23)); lvl=2; h,r-ind=1,1
[4,3]((1,2,4),(2,7,14),(1,2,5),(1,4,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,6),(1,4,9),(2,7,14)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,6),(1,3,7),(1,4,9)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,4),(1,3,6),(1,2,5),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,7),(2,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(1,3,7),(2,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,6),(2,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,4),(2,5,11)); lvl=4; h,r-ind=1,1
[3,3]((1,2,4),(1,0,0),(1,2,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,2,4),(1,2,3),(1,0,0)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[4,3]((0,1,0),(1,5,6),(1,2,3),(1,0,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
  [4,3]((1,1,1),(1,3,3),(2,7,9),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(1,3,4),(2,7,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,3),(1,2,2),(1,3,4)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,1),(1,2,3),(1,2,2),(1,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(2,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,4),(2,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,3),(2,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(2,4,5)); lvl=5; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(1,2,3)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,3,3)); lvl=3; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,3,3),(1,5,6),(2,7,9)); lvl=3; h,r-ind=3,3
    [4,3]((1,4,4),(3,11,12),(1,4,5),(2,9,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,8,9),(3,11,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,4),(2,8,9),(3,11,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,4),(2,9,9),(2,8,9)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,9),(1,4,5),(2,8,9)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(1,5,6),(1,4,5),(2,9,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(1,5,6),(1,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,9),(1,5,5),(1,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(1,5,6)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,4),(1,3,3),(3,11,12)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(1,3,3)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,3),(3,11,12),(1,4,5),(2,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,8),(3,11,12),(1,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,9),(2,7,8),(1,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,9),(2,7,8)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,8),(3,11,12)); lvl=5; h,r-ind=1,1
[5,3]((1,5,7),(1,5,6),(1,2,4),(1,2,3),(2,7,14)); lvl=2; h,r-ind=3,1; alert-h-inc
  [4,3]((1,4,6),(2,7,11),(1,5,6),(2,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,10),(2,7,9)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,5),(3,11,16),(5,19,27),(2,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,15,21),(5,19,27),(3,11,16)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,10),(4,15,21),(3,11,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,10),(4,15,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,5),(4,15,21),(5,19,27)); lvl=5; h,r-ind=1,1
    [3,3]((2,7,11),(3,11,16),(2,7,10)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,6),(2,7,11),(3,11,16),(5,19,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(4,15,22),(3,11,16)); lvl=5; h,r-ind=1,1
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        [3,3]((5,19,27),(4,15,22),(3,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(2,7,11),(4,15,22)); lvl=5; h,r-ind=1,1
        [3,3]((5,19,27),(1,4,6),(4,15,22)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,6),(1,4,6),(1,4,5),(5,19,27)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,8,11),(1,4,6),(5,19,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,11),(1,4,5),(5,19,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(2,8,11),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(2,8,11),(1,4,6)); lvl=5; h,r-ind=1,1
    [4,3]((2,7,11),(1,3,5),(1,2,3),(2,7,9)); lvl=3; h,r-ind=1,1
      [4,3]((5,16,24),(1,3,4),(1,2,3),(1,3,5)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,6,9),(1,3,4),(1,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,9),(1,3,5),(1,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,24),(2,6,9),(1,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,24),(2,6,9),(1,3,4)); lvl=5; h,r-ind=1,1
      [4,3]((2,7,11),(3,10,15),(5,16,24),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,20),(3,10,15),(5,16,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(4,13,20),(5,16,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,11),(4,13,20),(3,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(2,7,11),(4,13,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,10),(2,7,11),(3,10,15)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,10),(3,10,15),(5,16,24),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,15),(5,16,24),(4,13,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(5,16,24),(4,13,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,10),(3,10,15),(4,13,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,10),(4,13,19)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,10),(1,3,4),(2,7,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(1,2,3),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,5),(1,3,6),(3,10,17),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,11),(1,3,6),(3,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,6,11),(3,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,4),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,6,11),(1,3,6)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,11),(4,14,23),(1,3,5),(3,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,17),(4,14,23),(5,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(4,14,23),(5,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,11),(5,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(3,10,17),(5,17,28)); lvl=4; h,r-ind=1,1
    [5,3]((1,4,7),(3,11,18),(4,14,23),(1,3,6),(3,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,23),(2,7,12),(3,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,12),(3,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(1,3,6),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,18),(4,14,23),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,18),(1,4,7),(2,7,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(2,7,14),(1,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(2,7,11),(3,11,18),(4,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(4,14,23),(5,18,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,18),(4,14,23),(5,18,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(3,11,18),(5,18,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,11),(5,18,29)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,7),(1,4,7),(1,4,6),(3,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,13),(1,4,7),(3,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,13),(1,4,6),(3,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(2,8,13),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(2,8,13),(1,4,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(1,4,6),(1,5,6)); lvl=3; h,r-ind=1,1
[5,3]((1,4,17),(1,4,16),(1,3,12),(2,5,21),(1,3,13)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,13),(2,6,25),(2,5,21)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,12),(2,6,25),(2,5,21)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,16),(1,3,12),(3,10,41)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,13),(3,10,42),(4,13,54),(2,6,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,42),(4,13,54),(5,16,67)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,25),(4,13,54),(5,16,67)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,13),(3,10,42),(5,16,67)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,25),(1,3,13),(5,16,67)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,12),(3,10,41),(4,13,54),(2,6,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,41),(4,13,54),(5,16,66)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,25),(4,13,54),(5,16,66)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,12),(3,10,41),(5,16,66)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,25),(1,3,12),(5,16,66)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,17),(1,3,13),(3,10,42)); lvl=2; h,r-ind=1,1
  [5,3]((1,4,16),(1,4,17),(3,10,41),(3,10,42),(4,13,54)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,29),(4,13,54),(3,10,42)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,17),(2,7,29),(3,10,42)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,41),(2,7,29),(4,13,54)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,16),(3,10,41),(2,7,29)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,17),(1,4,16),(2,7,29)); lvl=3; h,r-ind=1,1
[4,3]((1,5,23),(1,5,18),(1,4,17),(1,4,16)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,17),(6,25,103),(1,4,16)); lvl=2; h,r-ind=1,1
  [4,3]((2,10,41),(1,5,18),(6,25,103),(1,4,16)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc
    [5,3]((7,30,121),(1,5,18),(2,10,39),(2,9,36),(1,4,16)); lvl=3; h,r-ind=1,1
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    [3,3]((3,13,52),(2,9,36),(7,30,121)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,16),(3,13,52),(7,30,121)); lvl=4; h,r-ind=1,1
    [4,3]((7,31,123),(6,27,107),(3,13,52),(2,9,36)); lvl=4; h,r-ind=1,1
      [3,3]((6,27,107),(2,9,36),(9,40,159)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,52),(2,9,36),(9,40,159)); lvl=5; h,r-ind=1,1
      [3,3]((7,31,123),(6,27,107),(9,40,159)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,52),(7,31,123),(9,40,159)); lvl=5; h,r-ind=1,1
    [4,3]((2,10,39),(3,14,55),(6,27,107),(2,9,36)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,55),(6,27,107),(5,23,91)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,36),(6,27,107),(5,23,91)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,39),(3,14,55),(5,23,91)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,36),(2,10,39),(5,23,91)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,19),(2,10,39),(3,14,55)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,16),(5,22,87),(7,31,123),(3,13,52)); lvl=4; h,r-ind=1,1
      [3,3]((5,22,87),(7,31,123),(8,35,139)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,52),(7,31,123),(8,35,139)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,16),(3,13,52),(8,35,139)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,16),(5,22,87),(8,35,139)); lvl=5; h,r-ind=1,1
    [5,3]((5,22,87),(1,5,19),(3,14,55),(7,31,123),(6,27,107)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,55),(4,18,71),(6,27,107)); lvl=5; h,r-ind=1,1
      [3,3]((7,31,123),(4,18,71),(6,27,107)); lvl=5; h,r-ind=1,1
      [3,3]((5,22,87),(7,31,123),(4,18,71)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,19),(3,14,55),(4,18,71)); lvl=5; h,r-ind=1,1
      [3,3]((5,22,87),(1,5,19),(4,18,71)); lvl=5; h,r-ind=1,1
    [4,3]((1,4,16),(1,5,18),(5,22,87),(1,5,19)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((2,9,35),(1,5,19),(1,5,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,16),(2,9,35),(1,5,18)); lvl=5; h,r-ind=1,1
      [3,3]((5,22,87),(2,9,35),(1,5,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,16),(5,22,87),(2,9,35)); lvl=5; h,r-ind=1,1
  [5,3]((6,25,103),(3,13,53),(6,26,107),(7,30,121),(1,4,16)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,16),(4,17,70),(6,25,103),(9,38,155)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((6,25,103),(5,21,86),(4,17,70)); lvl=5; h,r-ind=1,1
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      [3,3]((1,4,16),(9,38,155),(5,21,86)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,16),(6,25,103),(5,21,86)); lvl=5; h,r-ind=1,1
    [5,3]((4,17,70),(7,30,123),(11,47,192),(12,51,208),(9,38,155)); lvl=4; h,r-ind=1,1
      [3,3]((11,47,192),(8,34,139),(12,51,208)); lvl=5; h,r-ind=1,1
      [3,3]((9,38,155),(8,34,139),(12,51,208)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,70),(9,38,155),(8,34,139)); lvl=5; h,r-ind=1,1
      [3,3]((7,30,123),(11,47,192),(8,34,139)); lvl=5; h,r-ind=1,1
      [3,3]((7,30,123),(4,17,70),(8,34,139)); lvl=5; h,r-ind=1,1
    [4,3]((1,4,16),(4,17,69),(12,51,208),(9,38,155)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,69),(12,51,208),(13,55,224)); lvl=5; h,r-ind=1,1
      [3,3]((9,38,155),(12,51,208),(13,55,224)); lvl=5; h,r-ind=1,1
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      [3,3]((9,38,155),(1,4,16),(13,55,224)); lvl=5; h,r-ind=1,1
    [3,3]((6,26,107),(4,17,70),(7,30,123)); lvl=4; h,r-ind=1,1
    [4,3]((3,13,53),(6,26,107),(7,30,123),(11,47,192)); lvl=4; h,r-ind=1,1
      [3,3]((10,43,176),(7,30,123),(6,26,107)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,53),(10,43,176),(6,26,107)); lvl=5; h,r-ind=1,1
      [3,3]((10,43,176),(11,47,192),(7,30,123)); lvl=5; h,r-ind=1,1
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    [4,3]((3,13,53),(4,17,69),(11,47,192),(12,51,208)); lvl=4; h,r-ind=1,1
      [3,3]((15,64,261),(12,51,208),(4,17,69)); lvl=5; h,r-ind=1,1
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    [3,3]((3,13,53),(7,30,121),(4,17,69)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,16),(7,30,121),(4,17,69)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,20),(2,10,39),(2,9,36)); lvl=3; h,r-ind=1,1
  [5,3]((2,9,37),(3,13,53),(7,30,121),(1,5,20),(2,9,36)); lvl=3; h,r-ind=1,1
    [4,3]((8,36,145),(6,26,105),(5,22,89),(2,9,36)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((7,31,125),(5,22,89),(6,26,105)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,36),(7,31,125),(6,26,105)); lvl=5; h,r-ind=1,1
      [3,3]((8,36,145),(7,31,125),(5,22,89)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,36),(8,36,145),(7,31,125)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,20),(8,36,145),(2,9,36)); lvl=4; h,r-ind=1,1
    [3,3]((7,30,121),(6,26,105),(2,9,36)); lvl=4; h,r-ind=1,1
    [3,3]((3,13,53),(7,30,121),(6,26,105)); lvl=4; h,r-ind=1,1
    [5,3]((2,9,37),(1,5,20),(8,36,145),(5,22,89),(10,44,179)); lvl=4; h,r-ind=1,1
      [4,3]((9,40,162),(6,27,109),(10,45,182),(5,22,89)); lvl=5; h,r-ind=1,1
        [3,3]((10,45,182),(6,27,109),(15,67,271)); lvl=6; h,r-ind=1,1
        [3,3]((5,22,89),(6,27,109),(15,67,271)); lvl=6; h,r-ind=1,1
        [3,3]((9,40,162),(10,45,182),(15,67,271)); lvl=6; h,r-ind=1,1
        [3,3]((5,22,89),(9,40,162),(15,67,271)); lvl=6; h,r-ind=1,1
      [4,3]((11,49,199),(9,40,162),(7,31,126),(5,22,89)); lvl=5; h,r-ind=1,1
        [3,3]((16,71,288),(5,22,89),(9,40,162)); lvl=6; h,r-ind=1,1
        [3,3]((11,49,199),(16,71,288),(9,40,162)); lvl=6; h,r-ind=1,1
        [3,3]((7,31,126),(16,71,288),(5,22,89)); lvl=6; h,r-ind=1,1
        [3,3]((11,49,199),(7,31,126),(16,71,288)); lvl=6; h,r-ind=1,1
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      [3,3]((10,44,179),(7,31,126),(5,22,89)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,37),(10,44,179),(7,31,126)); lvl=5; h,r-ind=1,1
      [4,3]((4,18,73),(11,49,199),(9,40,162),(10,45,182)); lvl=5; h,r-ind=1,1
        [3,3]((11,49,199),(9,40,162),(13,58,235)); lvl=6; h,r-ind=1,1
        [3,3]((10,45,182),(9,40,162),(13,58,235)); lvl=6; h,r-ind=1,1
        [3,3]((4,18,73),(11,49,199),(13,58,235)); lvl=6; h,r-ind=1,1
        [3,3]((4,18,73),(10,45,182),(13,58,235)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,20),(4,18,73),(10,45,182)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,37),(4,18,73),(11,49,199)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,20),(2,9,37),(4,18,73)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,37),(11,49,199),(7,31,126)); lvl=5; h,r-ind=1,1
      [3,3]((8,36,145),(6,27,109),(5,22,89)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,20),(8,36,145),(6,27,109)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,20),(6,27,109),(10,45,182)); lvl=5; h,r-ind=1,1
    [4,3]((3,13,53),(6,26,105),(5,22,89),(10,44,179)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((6,26,105),(5,22,89),(8,35,142)); lvl=5; h,r-ind=1,1
      [3,3]((10,44,179),(5,22,89),(8,35,142)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,53),(6,26,105),(8,35,142)); lvl=5; h,r-ind=1,1
      [3,3]((10,44,179),(3,13,53),(8,35,142)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,37),(3,13,53),(10,44,179)); lvl=4; h,r-ind=1,1
  [3,3]((2,10,41),(2,9,37),(1,5,20)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,37),(3,13,53),(6,26,107)); lvl=3; h,r-ind=1,1
[4,3]((1,5,23),(2,10,41),(1,4,17),(6,25,103)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc
  [5,3]((7,30,126),(1,4,17),(6,26,107),(3,13,54),(6,25,103)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,17),(4,17,70),(9,38,158),(6,25,103)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((5,21,87),(9,38,158),(4,17,70)); lvl=5; h,r-ind=1,1
      [3,3]((6,25,103),(5,21,87),(4,17,70)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,17),(6,25,103),(5,21,87)); lvl=5; h,r-ind=1,1
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    [5,3]((4,17,70),(11,47,195),(7,30,124),(9,38,158),(12,51,212)); lvl=4; h,r-ind=1,1
      [3,3]((7,30,124),(11,47,195),(8,34,141)); lvl=5; h,r-ind=1,1
      [3,3]((12,51,212),(11,47,195),(8,34,141)); lvl=5; h,r-ind=1,1
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    [3,3]((6,26,107),(4,17,70),(7,30,124)); lvl=4; h,r-ind=1,1
    [4,3]((4,17,71),(3,13,54),(11,47,195),(12,51,212)); lvl=4; h,r-ind=1,1
      [3,3]((15,64,266),(11,47,195),(3,13,54)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,71),(15,64,266),(3,13,54)); lvl=5; h,r-ind=1,1
      [3,3]((12,51,212),(15,64,266),(11,47,195)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,71),(12,51,212),(15,64,266)); lvl=5; h,r-ind=1,1
    [3,3]((7,30,126),(4,17,71),(3,13,54)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,17),(7,30,126),(4,17,71)); lvl=4; h,r-ind=1,1
    [4,3]((3,13,54),(6,26,107),(11,47,195),(7,30,124)); lvl=4; h,r-ind=1,1
      [3,3]((10,43,178),(6,26,107),(7,30,124)); lvl=5; h,r-ind=1,1
      [3,3]((11,47,195),(10,43,178),(7,30,124)); lvl=5; h,r-ind=1,1
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      [3,3]((3,13,54),(10,43,178),(6,26,107)); lvl=5; h,r-ind=1,1
    [4,3]((1,4,17),(4,17,71),(9,38,158),(12,51,212)); lvl=4; h,r-ind=1,1
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      [3,3]((9,38,158),(12,51,212),(13,55,229)); lvl=5; h,r-ind=1,1
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  [5,3]((1,5,23),(2,10,43),(2,9,38),(7,30,126),(1,4,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,60),(2,10,43),(1,5,22)); lvl=4; h,r-ind=1,1
    [5,3]((5,22,94),(7,31,132),(3,14,60),(6,27,115),(1,5,22)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,77),(6,27,115),(7,31,132)); lvl=5; h,r-ind=1,1
      [3,3]((5,22,94),(4,18,77),(7,31,132)); lvl=5; h,r-ind=1,1
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    [4,3]((1,5,23),(1,4,17),(5,22,94),(1,5,22)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((2,9,39),(1,4,17),(5,22,94)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,39),(1,5,22),(5,22,94)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,23),(2,9,39),(1,5,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,23),(2,9,39),(1,4,17)); lvl=5; h,r-ind=1,1
    [4,3]((2,9,38),(7,31,132),(6,27,115),(3,13,55)); lvl=4; h,r-ind=1,1
      [3,3]((9,40,170),(7,31,132),(6,27,115)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,38),(9,40,170),(6,27,115)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,55),(2,9,38),(9,40,170)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,55),(9,40,170),(7,31,132)); lvl=5; h,r-ind=1,1
    [4,3]((1,4,17),(5,22,94),(7,31,132),(3,13,55)); lvl=4; h,r-ind=1,1
      [3,3]((5,22,94),(7,31,132),(8,35,149)); lvl=5; h,r-ind=1,1
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    [4,3]((2,9,38),(3,14,60),(6,27,115),(2,10,43)); lvl=4; h,r-ind=1,1
      [3,3]((6,27,115),(5,23,98),(3,14,60)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,43),(5,23,98),(3,14,60)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,38),(6,27,115),(5,23,98)); lvl=5; h,r-ind=1,1
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        [3,3]((2,10,43),(2,9,38),(5,23,98)); lvl=5; h,r-ind=1,1
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      [3,3]((1,4,17),(7,30,126),(3,13,55)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,37),(6,26,107),(3,13,54)); lvl=3; h,r-ind=1,1
    [5,3]((1,5,21),(2,9,38),(7,30,126),(2,9,37),(3,13,54)); lvl=3; h,r-ind=1,1
      [4,3]((5,22,92),(6,26,109),(3,13,54),(10,44,183)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((8,35,146),(6,26,109),(3,13,54)); lvl=5; h,r-ind=1,1
        [3,3]((10,44,183),(8,35,146),(3,13,54)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,92),(10,44,183),(8,35,146)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,92),(8,35,146),(6,26,109)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,37),(3,13,54),(10,44,183)); lvl=4; h,r-ind=1,1
      [5,3]((1,5,21),(8,36,151),(2,9,37),(5,22,92),(10,44,183)); lvl=4; h,r-ind=1,1
        [4,3]((5,22,92),(9,40,167),(7,31,129),(11,49,204)); lvl=5; h,r-ind=1,1
          [3,3]((9,40,167),(11,49,204),(16,71,296)); lvl=6; h,r-ind=1,1
          [3,3]((7,31,129),(11,49,204),(16,71,296)); lvl=6; h,r-ind=1,1
          [3,3]((5,22,92),(7,31,129),(16,71,296)); lvl=6; h,r-ind=1,1
          [3,3]((5,22,92),(9,40,167),(16,71,296)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,37),(7,31,129),(11,49,204)); lvl=5; h,r-ind=1,1
        [4,3]((9,40,167),(4,18,75),(10,45,188),(11,49,204)); lvl=5; h,r-ind=1,1
          [3,3]((13,58,242),(4,18,75),(10,45,188)); lvl=6; h,r-ind=1,1
          [3,3]((9,40,167),(13,58,242),(10,45,188)); lvl=6; h,r-ind=1,1
          [3,3]((13,58,242),(11,49,204),(4,18,75)); lvl=6; h,r-ind=1,1
          [3,3]((9,40,167),(13,58,242),(11,49,204)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,37),(4,18,75),(11,49,204)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,21),(2,9,37),(4,18,75)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,21),(4,18,75),(10,45,188)); lvl=5; h,r-ind=1,1
        [4,3]((5,22,92),(6,27,113),(9,40,167),(10,45,188)); lvl=5; h,r-ind=1,1
          [3,3]((6,27,113),(10,45,188),(15,67,280)); lvl=6; h,r-ind=1,1
          [3,3]((9,40,167),(10,45,188),(15,67,280)); lvl=6; h,r-ind=1,1
          [3,3]((5,22,92),(6,27,113),(15,67,280)); lvl=6; h,r-ind=1,1
          [3,3]((9,40,167),(5,22,92),(15,67,280)); lvl=6; h,r-ind=1,1
        [3,3]((8,36,151),(5,22,92),(6,27,113)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,21),(8,36,151),(6,27,113)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,21),(6,27,113),(10,45,188)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,92),(10,44,183),(7,31,129)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,37),(10,44,183),(7,31,129)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,38),(8,36,151),(5,22,92),(6,26,109)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,31,130),(5,22,92),(8,36,151)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,38),(7,31,130),(8,36,151)); lvl=5; h,r-ind=1,1
        [3,3]((6,26,109),(7,31,130),(5,22,92)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,38),(6,26,109),(7,31,130)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,21),(2,9,38),(8,36,151)); lvl=4; h,r-ind=1,1
      [3,3]((7,30,126),(6,26,109),(3,13,54)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,38),(7,30,126),(6,26,109)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,21),(2,10,41),(2,9,37)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,21),(2,10,43),(2,9,38)); lvl=3; h,r-ind=1,1
[5,3]((1,5,18),(2,10,23),(2,6,15),(1,4,16),(1,3,12)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,15),(2,8,25),(1,3,12),(2,6,19)); lvl=2; h,r-ind=5,1; alert-h-inc
    [3,3]((2,6,19),(1,3,10),(2,7,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,13),(1,3,10),(2,7,22)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,25),(1,4,13),(2,7,22)); lvl=3; h,r-ind=1,1
    [4,3]((2,8,27),(1,4,13),(2,6,21),(1,3,10)); lvl=3; h,r-ind=1,1
      [4,3]((2,6,21),(2,7,24),(1,3,10),(4,14,47)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,24),(4,14,47),(3,10,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(4,14,47),(3,10,34)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,21),(2,7,24),(3,10,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(2,6,21),(3,10,34)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,13),(1,3,10),(4,14,47)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,13),(2,8,27),(2,7,24),(4,14,47)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,37),(2,8,27),(2,7,24)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,47),(3,11,37),(2,7,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,13),(4,14,47),(3,11,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,13),(3,11,37),(2,8,27)); lvl=5; h,r-ind=1,1
    [4,3]((1,4,15),(2,8,27),(1,3,12),(2,6,21)); lvl=3; h,r-ind=3,1
      [4,3]((1,4,15),(1,4,14),(1,3,11),(1,3,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,14),(1,3,11),(2,7,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,12),(1,3,11),(2,7,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,15),(1,4,14),(2,7,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,12),(1,4,15),(2,7,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,14),(2,7,24),(1,3,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,24),(2,6,21),(1,3,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,14),(2,8,27),(2,7,24)); lvl=4; h,r-ind=1,1
  [4,3]((2,8,25),(1,3,8),(1,4,10),(2,6,19)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,10),(2,8,23),(1,3,9),(1,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,11),(1,3,9),(3,10,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(1,3,9),(3,10,28)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,8),(1,4,10),(1,4,11),(3,10,28)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,10),(2,7,19),(1,4,11)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,28),(2,7,19),(1,4,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(1,4,10),(2,7,19)); lvl=5; h,r-ind=1,1
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```
          [3,3]((3,10,28),(1,3,8),(2,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,11),(2,8,23),(1,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,12),(2,8,23),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,22),(1,4,12),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,22),(2,6,19),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,25),(2,7,22),(1,4,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,8),(2,6,15),(2,8,19),(1,4,10)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,10),(4,14,35),(2,8,19),(2,7,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,27),(4,14,35),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,19),(3,11,27),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(2,8,19),(3,11,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(3,11,27),(4,14,35)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,8),(4,14,35),(2,6,15),(2,7,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,14,35),(3,10,25),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,15),(3,10,25),(2,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(2,6,15),(3,10,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(4,14,35),(3,10,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(1,4,10),(4,14,35)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,12),(2,10,23),(2,8,19),(1,4,10)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,10),(4,18,43),(2,9,21),(2,8,19)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,18,43),(2,9,21),(3,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,19),(2,9,21),(3,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(2,8,19),(3,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(4,18,43),(3,13,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(1,4,10),(4,18,43)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,12),(4,18,43),(2,10,23),(2,9,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,33),(4,18,43),(2,9,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,23),(3,14,33),(2,9,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,12),(2,10,23),(3,14,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,12),(3,14,33),(4,18,43)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,12),(2,10,29),(2,8,25),(1,4,10)); lvl=2; h,r-ind=5,1; alert-h-inc
      [4,3]((2,10,27),(1,5,14),(1,4,12),(2,8,23)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,12),(1,5,14),(4,18,51)); lvl=4; h,r-ind=1,1
        [4,3]((2,10,27),(2,9,25),(1,5,14),(4,18,51)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,25),(4,18,51),(3,14,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(4,18,51),(3,14,39)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,27),(1,5,14),(3,14,39)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,27),(2,9,25),(3,14,39)); lvl=5; h,r-ind=1,1
        [4,3]((2,8,23),(2,9,25),(1,4,12),(4,18,51)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,13,37),(2,9,25),(4,18,51)); lvl=5; h,r-ind=1,1
          [3,3]((3,13,37),(1,4,12),(4,18,51)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,23),(3,13,37),(1,4,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,23),(3,13,37),(2,9,25)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,12),(1,4,10),(2,10,27),(2,8,23)); lvl=3; h,r-ind=3,1
        [3,3]((2,9,25),(2,8,23),(1,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,13),(2,9,25),(1,4,11)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,12),(1,5,13),(1,4,10),(1,4,11)); lvl=4; h,r-ind=1,1
          [3,3]((1,4,10),(1,4,11),(2,9,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,13),(1,4,11),(2,9,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(1,4,10),(2,9,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,13),(1,5,12),(2,9,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,13),(2,10,27),(2,9,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,14),(2,9,27),(1,4,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,27),(2,8,25),(1,4,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,14),(2,9,27),(2,10,29)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,18),(1,4,15),(2,10,29),(2,8,25)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,25),(1,4,13),(2,9,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,15),(1,4,13),(2,9,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,29),(1,5,15),(2,9,27)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,16),(1,5,15),(2,8,27),(1,4,13)); lvl=3; h,r-ind=1,1
        [3,3]((2,9,29),(2,8,27),(1,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,15),(2,9,29),(1,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,16),(1,5,15),(2,9,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,16),(2,9,29),(2,8,27)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,18),(1,5,16),(1,4,15),(2,8,27)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,16),(2,8,27),(1,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,16),(1,5,17),(1,4,14)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,18),(1,5,17),(1,4,15),(1,4,14)); lvl=4; h,r-ind=1,1
          [3,3]((1,4,15),(1,4,14),(2,9,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,17),(1,4,14),(2,9,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,18),(1,5,17),(2,9,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,18),(1,4,15),(2,9,32)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,15),(1,4,16),(1,3,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,18),(1,4,15),(1,4,16)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,18),(2,10,23)); lvl=1; h,r-ind=13,13; optimized-h
  [3,3]((1,5,23),(0,1,0),(1,5,18)); lvl=1; h,r-ind=5,5; optimized-h
```

23.18 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,6,23)); lvl=0; h,r-ind=23,529
  [4,3]((1,5,10),(1,3,11),(1,5,15),(1,0,0)); lvl=1; h,r-ind=5,5
    [5,3]((2,10,25),(2,6,17),(1,3,9),(1,5,15),(1,4,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,12),(1,3,9),(1,4,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,15),(1,4,12),(1,4,13)); lvl=3; h,r-ind=1,1
      [4,3]((2,10,27),(2,8,23),(1,5,15),(1,4,12)); lvl=3; h,r-ind=1,1
        [4,3]((2,8,23),(1,4,12),(3,13,37),(5,22,63)); lvl=4; h,r-ind=1,1
          [3,3]((1,4,12),(5,22,63),(4,17,49)); lvl=5; h,r-ind=1,1
          [3,3]((3,13,37),(5,22,63),(4,17,49)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,23),(3,13,37),(4,17,49)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,23),(1,4,12),(4,17,49)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,14),(2,9,25),(3,13,37),(5,22,63)); lvl=4; h,r-ind=1,1
          [3,3]((2,9,25),(4,18,51),(3,13,37)); lvl=5; h,r-ind=1,1
          [3,3]((5,22,63),(4,18,51),(3,13,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(5,22,63),(4,18,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(2,9,25),(4,18,51)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,27),(1,5,14),(2,9,25)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,14),(1,5,15),(1,4,12),(5,22,63)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,9,26),(1,4,12),(1,5,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(2,9,26),(1,5,15)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,26),(5,22,63),(1,4,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(2,9,26),(5,22,63)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,25),(2,8,23),(3,13,37)); lvl=4; h,r-ind=1,1
      [4,3]((2,8,23),(2,7,20),(1,4,12),(1,3,9)); lvl=3; h,r-ind=1,1
        [3,3]((3,11,32),(1,3,9),(2,7,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,23),(3,11,32),(2,7,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,12),(3,11,32),(1,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,23),(1,4,12),(3,11,32)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,17),(2,7,20),(1,3,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,8,21),(1,4,11),(2,6,17),(2,7,20)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,11),(2,7,20),(4,14,39)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,17),(2,7,20),(4,14,39)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [3,3]((2,7,19),(2,6,17),(4,14,39)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [4,3]((2,7,19),(2,8,21),(1,4,11),(4,14,39)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,11,30),(2,8,21),(1,4,11)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,39),(3,11,30),(1,4,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,19),(3,11,30),(2,8,21)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,39),(2,7,19),(3,11,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,11),(2,8,23),(2,7,20)); lvl=3; h,r-ind=1,1
      [4,3]((2,10,27),(1,5,13),(1,4,11),(2,8,23)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,13),(1,4,11),(4,18,49)); lvl=4; h,r-ind=1,1
        [4,3]((2,8,23),(2,9,25),(1,4,11),(4,18,49)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,25),(3,13,36),(4,18,49)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,11),(3,13,36),(4,18,49)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,23),(2,9,25),(3,13,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,11),(2,8,23),(3,13,36)); lvl=5; h,r-ind=1,1
        [4,3]((2,10,27),(2,9,25),(1,5,13),(4,18,49)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,38),(2,9,25),(4,18,49)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,13),(3,14,38),(4,18,49)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,27),(3,14,38),(2,9,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,13),(2,10,27),(3,14,38)); lvl=5; h,r-ind=1,1
      [4,3]((2,10,25),(2,8,21),(1,5,13),(1,4,11)); lvl=3; h,r-ind=1,1
        [4,3]((2,9,23),(4,18,47),(1,4,11),(2,8,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,13,34),(4,18,47),(1,4,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,21),(3,13,34),(1,4,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,23),(2,8,21),(3,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,23),(3,13,34),(4,18,47)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,13),(4,18,47),(1,4,11)); lvl=4; h,r-ind=1,1
        [4,3]((2,10,25),(2,9,23),(1,5,13),(4,18,47)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,36),(4,18,47),(2,9,23)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,25),(3,14,36),(2,9,23)); lvl=5; h,r-ind=1,1
          [3,3]((3,14,36),(1,5,13),(4,18,47)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,25),(3,14,36),(1,5,13)); lvl=5; h,r-ind=1,1
    [5,3]((1,3,9),(2,5,15),(2,5,17),(1,3,11),(1,4,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,10),(2,5,16),(2,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,9),(1,3,10),(2,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,9),(1,3,10),(1,4,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,10),(2,5,16),(2,5,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,10),(2,5,17),(1,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,10),(1,4,13),(1,3,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,7),(2,5,17),(1,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,7),(1,3,11)); lvl=2; h,r-ind=1,1
    [5,3]((2,5,15),(1,2,6),(2,3,10),(1,2,7),(2,5,17)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,17),(5,11,36),(3,7,23),(1,2,7)); lvl=3; h,r-ind=1,1
        [3,3]((4,9,30),(3,7,23),(5,11,36)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(4,9,30),(5,11,36)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,17),(4,9,30),(3,7,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(2,5,17),(4,9,30)); lvl=4; h,r-ind=1,1
```

```
  [4,3]((6,13,42),(2,4,13),(5,11,36),(1,2,7)); lvl=3; h,r-ind=1,1
    [3,3]((7,15,49),(1,2,7),(2,4,13)); lvl=4; h,r-ind=1,1
    [3,3]((6,13,42),(7,15,49),(2,4,13)); lvl=4; h,r-ind=1,1
    [3,3]((5,11,36),(6,13,42),(7,15,49)); lvl=4; h,r-ind=1,1
    [3,3]((5,11,36),(7,15,49),(1,2,7)); lvl=4; h,r-ind=1,1
  [3,3]((2,4,13),(2,3,10),(1,2,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,6),(2,4,13),(2,3,10)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,6),(5,11,35),(6,13,42),(2,4,13)); lvl=3; h,r-ind=1,1
    [3,3]((5,11,35),(6,13,42),(7,15,48)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,13),(6,13,42),(7,15,48)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,6),(5,11,35),(7,15,48)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,13),(1,2,6),(7,15,48)); lvl=4; h,r-ind=1,1
  [6,3]((2,5,16),(3,7,22),(5,11,35),(6,13,42),(5,11,36),(3,7,23)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,29),(6,13,42),(5,11,35)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,22),(4,9,29),(5,11,35)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,22),(2,5,16),(4,9,29)); lvl=4; h,r-ind=1,1
    [3,3]((4,9,29),(6,13,42),(5,11,36)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,23),(4,9,29),(5,11,36)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,16),(3,7,23),(4,9,29)); lvl=4; h,r-ind=1,1
  [3,3]((2,5,17),(2,5,16),(3,7,23)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,15),(2,5,16),(3,7,22)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,6),(2,5,15),(3,7,22),(5,11,35)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,22),(2,5,15),(4,9,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,6),(2,5,15),(4,9,28)); lvl=4; h,r-ind=1,1
    [3,3]((5,11,35),(1,2,6),(4,9,28)); lvl=4; h,r-ind=1,1
    [3,3]((5,11,35),(3,7,22),(4,9,28)); lvl=4; h,r-ind=1,1
[3,3]((1,0,0),(2,3,10),(1,2,7)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,2,6),(2,3,10)); lvl=2; h,r-ind=2,2; optimized-h
[6,3]((1,5,10),(2,5,10),(2,10,25),(2,6,17),(2,5,14),(3,8,23)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,6),(2,6,15),(2,5,10),(2,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(2,5,11),(2,5,12)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,15),(1,3,7),(2,5,12)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,6),(1,3,7),(2,5,10),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(2,5,11),(3,8,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,11),(3,8,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,10),(3,8,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,6),(3,8,17)); lvl=5; h,r-ind=1,1
  [4,3]((2,6,15),(1,3,8),(2,5,14),(2,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,8),(4,11,28),(2,5,13),(2,5,14)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,21),(4,11,28),(2,5,13)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,14),(3,8,21),(2,5,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,8),(2,5,14),(3,8,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,8),(3,8,21),(4,11,28)); lvl=5; h,r-ind=1,1
    [3,3]((2,6,15),(1,3,8),(4,11,28)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,12),(2,6,15),(4,11,28)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,5,12),(4,11,28),(2,5,13)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,3,8),(2,5,14),(3,8,23)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,8),(2,6,17),(3,8,23)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,8),(2,8,21),(2,7,18),(2,6,17)); lvl=3; h,r-ind=1,1
    [3,3]((4,14,37),(2,7,19),(2,8,21)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,7,18),(4,14,37),(2,8,21)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,8),(2,7,18),(4,14,37)); lvl=4; h,r-ind=1,1
    [4,3]((2,6,17),(1,3,8),(4,14,37),(2,7,19)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,10,27),(1,3,8),(4,14,37)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,19),(3,10,27),(4,14,37)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,17),(2,7,19),(3,10,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,17),(3,10,27),(1,3,8)); lvl=5; h,r-ind=1,1
  [4,3]((1,3,6),(2,7,14),(2,7,17),(2,6,15)); lvl=3; h,r-ind=3,1; alert-h-inc
    [4,3]((1,3,6),(1,3,7),(2,7,14),(4,14,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(2,7,15),(4,14,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,7),(2,7,15),(4,13,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,6),(4,13,28)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,6),(2,7,14),(2,7,15),(4,13,28)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,21),(2,7,14),(2,7,15)); lvl=6; h,r-ind=1,1
        [3,3]((4,13,28),(3,10,21),(2,7,15)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,6),(4,13,28),(3,10,21)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,6),(3,10,21),(2,7,14)); lvl=6; h,r-ind=1,1
    [3,3]((1,3,7),(2,7,17),(4,14,31)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((1,3,7),(2,6,15),(2,7,17)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,10),(2,10,23),(2,7,14),(2,7,17)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc
    [3,3]((1,4,9),(2,7,17),(4,14,31)); lvl=4; h,r-ind=3,3; optimized-h
    [4,3]((2,7,14),(1,4,8),(1,4,9),(4,14,31)); lvl=4; h,r-ind=1,1
      [3,3]((4,15,32),(1,4,9),(1,4,8)); lvl=5; h,r-ind=1,1
      [4,3]((2,7,14),(4,15,32),(2,7,15),(1,4,8)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,15),(3,11,23),(4,15,32)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,8),(3,11,23),(4,15,32)); lvl=6; h,r-ind=1,1
        [3,3]((2,7,14),(2,7,15),(3,11,23)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,8),(2,7,14),(3,11,23)); lvl=6; h,r-ind=1,1
      [3,3]((4,15,32),(2,7,15),(1,4,9)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,15),(4,14,31),(1,4,9)); lvl=5; h,r-ind=1,1
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      [4,3]((1,5,10),(1,5,11),(1,4,8),(1,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(1,4,9),(2,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,11),(1,4,9),(2,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(1,4,8),(2,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,11),(1,5,10),(2,9,19)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,40),(1,4,9),(2,7,17)); lvl=4; h,r-ind=3,3; optimized-h
      [4,3]((2,10,23),(4,17,40),(1,5,11),(1,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,21),(4,17,40),(1,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((4,18,41),(2,9,21),(1,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,11),(4,18,41),(1,4,9)); lvl=5; h,r-ind=1,1
        [4,3]((2,10,23),(1,5,11),(4,18,41),(2,9,21)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((1,5,11),(4,18,41),(3,14,32)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,21),(4,18,41),(3,14,32)); lvl=6; h,r-ind=1,1
          [3,3]((2,10,23),(2,9,21),(3,14,32)); lvl=6; h,r-ind=1,1
          [3,3]((2,10,23),(1,5,11),(3,14,32)); lvl=6; h,r-ind=1,1
    [4,3]((2,7,17),(2,6,15),(1,3,8),(2,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,25),(1,3,8),(2,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,17),(3,10,25),(2,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,25),(2,7,18),(1,3,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,17),(3,10,25),(2,7,18)); lvl=4; h,r-ind=1,1
    [4,3]((2,10,23),(2,7,17),(1,5,12),(2,7,18)); lvl=3; h,r-ind=3,1; alert-h-inc
      [3,3]((1,4,10),(2,7,17),(2,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,40),(1,4,10),(2,7,17)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((4,17,40),(2,10,23),(1,4,10),(1,5,12)); lvl=4; h,r-ind=1,1
        [4,3]((2,9,21),(4,18,43),(1,5,12),(2,10,23)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,33),(4,18,43),(1,5,12)); lvl=6; h,r-ind=1,1
          [3,3]((2,10,23),(3,14,33),(1,5,12)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,21),(2,10,23),(3,14,33)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,21),(3,14,33),(4,18,43)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,10),(4,18,43),(1,5,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,21),(1,4,10),(4,18,43)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,21),(4,17,40),(1,4,10)); lvl=5; h,r-ind=1,1
    [4,3]((2,10,25),(1,5,12),(2,8,21),(2,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,21),(1,4,10),(2,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,21),(2,9,23),(1,4,10)); lvl=4; h,r-ind=1,1
      [4,3]((2,10,25),(2,9,23),(1,5,12),(1,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(2,9,23),(3,14,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,25),(2,9,23),(3,14,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,12),(2,10,25),(3,14,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,12),(1,4,10),(3,14,35)); lvl=5; h,r-ind=1,1
  [4,3]((2,6,17),(1,3,9),(3,8,23),(2,5,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,15),(1,3,9),(4,11,32)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,17),(1,3,9),(4,11,32)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,23),(2,6,17),(4,11,32)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,23),(2,5,15),(4,11,32)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,14),(3,8,23),(2,5,15),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,10,29),(2,5,15),(3,8,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,14),(4,10,29),(3,8,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(4,10,29),(2,5,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,14),(1,2,6),(4,10,29)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,10),(2,5,14),(1,0,0),(1,2,6)); lvl=2; h,r-ind=2,1
    [3,3]((1,2,5),(1,2,6),(2,5,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,12),(1,2,5),(2,5,14)); lvl=3; h,r-ind=2,2; alert-r-inc; optimized-h
    [4,3]((2,5,10),(2,5,12),(1,2,5),(1,2,4)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,11),(4,9,20),(1,2,5),(2,5,12)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,16),(4,9,20),(1,2,5)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,12),(3,7,16),(1,2,5)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,11),(2,5,12),(3,7,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,11),(3,7,16),(4,9,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,4),(4,9,20),(1,2,5)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,11),(2,5,10),(1,2,4),(4,9,20)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,4),(3,7,15),(2,5,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,11),(3,7,15),(2,5,10)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,20),(2,5,11),(3,7,15)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,20),(1,2,4),(3,7,15)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,5),(1,1,3),(1,2,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(2,3,6),(1,1,3),(1,0,0)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,3),(3,4,10),(1,1,2),(1,0,0)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,2,5),(1,1,2),(3,4,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(2,2,5),(3,4,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,0),(2,2,5),(1,1,2)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(1,0,0),(2,2,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,5),(1,1,3),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(3,4,10),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,6),(1,1,2)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,4),(2,3,6)); lvl=3; h,r-ind=1,1
[4,3]((0,1,0),(1,5,10),(2,12,23),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,6,11),(2,12,23),(1,5,10)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,11),(2,5,10),(2,7,12),(1,5,10)); lvl=2; h,r-ind=5,1; alert-h-inc
    [3,3]((2,5,10),(2,6,11),(1,3,6)); lvl=3; h,r-ind=1,1
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    [3,3]((1,4,7),(2,6,11),(1,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,7),(2,9,16),(2,7,14),(1,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,6),(4,15,28),(2,8,15),(2,7,14)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,8,15),(4,15,28),(3,11,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(4,15,28),(3,11,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,14),(2,8,15),(3,11,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(2,7,14),(3,11,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,7),(1,3,6),(4,15,28)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,7),(4,15,28),(2,9,16),(2,8,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,15,28),(2,8,15),(3,12,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,16),(2,8,15),(3,12,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(2,9,16),(3,12,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(4,15,28),(3,12,22)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,11),(1,5,10),(2,9,16),(2,7,14)); lvl=3; h,r-ind=3,1
      [3,3]((2,8,15),(2,7,14),(1,4,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,8,15),(1,4,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,11),(1,5,9),(1,5,10),(1,4,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(1,4,8),(2,10,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(1,4,8),(2,10,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(1,5,9),(2,10,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(1,6,11),(2,10,19)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,16),(1,5,9),(2,8,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(2,7,12),(2,6,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,6),(1,0,0),(2,5,10),(2,7,12)); lvl=2; h,r-ind=10,1; alert-h-inc
    [4,3]((2,6,9),(1,3,5),(1,2,4),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(5,12,21)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,9),(4,9,15),(1,3,5),(5,12,21)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,3,5),(5,12,21),(3,7,12),(7,18,30)); lvl=5; h,r-ind=1,3
          [3,3]((4,10,17),(5,12,21),(3,7,12)); lvl=6; h,r-ind=1,1
          [3,3]((7,18,30),(4,10,17),(3,7,12)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,5),(7,18,30),(4,10,17)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,5),(4,10,17),(5,12,21)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,8),(3,7,12),(7,18,30)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,3,5),(2,6,9),(2,5,8),(7,18,30)); lvl=5; h,r-ind=1,3
          [3,3]((2,6,9),(3,8,13),(2,5,8)); lvl=6; h,r-ind=1,1
          [3,3]((7,18,30),(3,8,13),(2,5,8)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,5),(2,6,9),(3,8,13)); lvl=6; h,r-ind=1,1
          [3,3]((7,18,30),(1,3,5),(3,8,13)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,8),(4,9,15),(3,7,12)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,6),(4,9,15),(1,2,4),(5,12,21)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,2,4),(7,15,27),(3,7,12),(5,12,21)); lvl=5; h,r-ind=1,3
          [3,3]((4,9,16),(3,7,12),(7,15,27)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,4),(4,9,16),(7,15,27)); lvl=6; h,r-ind=1,1
          [3,3]((4,9,16),(5,12,21),(3,7,12)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,4),(4,9,16),(5,12,21)); lvl=6; h,r-ind=1,1
        [3,3]((2,4,7),(7,15,27),(3,7,12)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,4,7),(4,9,15),(3,7,12)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,4),(2,3,6),(2,4,7),(7,15,27)); lvl=5; h,r-ind=1,3
          [3,3]((3,6,11),(2,4,7),(2,3,6)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,4),(3,6,11),(2,3,6)); lvl=6; h,r-ind=1,1
          [3,3]((7,15,27),(3,6,11),(2,4,7)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,4),(7,15,27),(3,6,11)); lvl=6; h,r-ind=1,1
    [4,3]((1,3,3),(2,6,9),(1,0,0),(2,3,6)); lvl=3; h,r-ind=9,3; alert-r-inc
      [4,3]((4,9,15),(1,1,2),(2,3,6),(1,2,3)); lvl=4; h,r-ind=1,1
        [4,3]((2,4,7),(2,3,6),(4,7,12),(1,1,2)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,9),(2,3,6),(1,1,2)); lvl=6; h,r-ind=1,1
          [3,3]((4,7,12),(3,5,9),(1,1,2)); lvl=6; h,r-ind=1,1
          [3,3]((2,4,7),(4,7,12),(3,5,9)); lvl=6; h,r-ind=1,1
          [3,3]((2,4,7),(3,5,9),(2,3,6)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,3),(4,7,12),(1,1,2)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,7),(4,7,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,7),(4,9,15)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,4),(2,6,9),(4,9,15),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,5,8),(4,9,15)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,15),(1,2,3),(2,5,8)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,4),(4,10,15),(2,6,9),(2,5,8)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,8,12),(4,10,15),(2,5,8)); lvl=6; h,r-ind=1,1
          [3,3]((2,6,9),(3,8,12),(2,5,8)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(2,6,9),(3,8,12)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(3,8,12),(4,10,15)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(4,10,15),(1,2,3)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,3),(2,3,3),(1,3,4),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,2,3),(3,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(1,2,3),(3,7,9)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,4),(1,3,3),(1,2,2),(3,7,9)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((1,3,3),(2,5,6),(1,2,2)); lvl=6; h,r-ind=1,1
          [3,3]((3,7,9),(2,5,6),(1,2,2)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(1,3,3),(2,5,6)); lvl=6; h,r-ind=1,1
          [3,3]((3,7,9),(1,3,4),(2,5,6)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,3),(1,2,3)); lvl=5; h,r-ind=1,1
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  [4,3]((1,0,0),(2,3,3),(1,1,2),(1,2,3)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,3),(1,1,1)); lvl=5; h,r-ind=1,1
    [3,3]((3,4,6),(1,2,3),(1,1,1)); lvl=5; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,2),(3,4,6),(1,1,1)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,2,3),(1,1,2),(3,4,6)); lvl=6; h,r-ind=1,1
      [3,3]((1,1,1),(2,2,3),(3,4,6)); lvl=6; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=6; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(2,2,3)); lvl=6; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,6),(1,2,3)); lvl=5; h,r-ind=1,1
[4,3]((1,3,5),(2,6,11),(2,5,10),(1,2,4)); lvl=3; h,r-ind=1,1
  [3,3]((2,6,11),(2,5,10),(3,8,15)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,4),(2,5,10),(3,8,15)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,5),(2,6,11),(3,8,15)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,4),(1,3,5),(3,8,15)); lvl=4; h,r-ind=1,1
[4,3]((2,7,12),(1,4,6),(1,3,5),(2,6,11)); lvl=3; h,r-ind=1,1
  [3,3]((3,10,17),(1,3,5),(1,4,6)); lvl=4; h,r-ind=1,1
  [3,3]((2,7,12),(3,10,17),(1,4,6)); lvl=4; h,r-ind=1,1
  [3,3]((2,6,11),(3,10,17),(1,3,5)); lvl=4; h,r-ind=1,1
  [3,3]((2,7,12),(2,6,11),(3,10,17)); lvl=4; h,r-ind=1,1
[4,3]((2,9,12),(1,4,6),(2,6,9),(1,3,5)); lvl=3; h,r-ind=1,1
  [4,3]((4,15,21),(2,6,9),(1,3,5),(5,18,27)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((7,24,36),(2,7,10),(1,3,5),(2,6,9)); lvl=5; h,r-ind=1,3
      [3,3]((1,3,5),(3,10,15),(2,6,9)); lvl=6; h,r-ind=1,1
      [3,3]((2,7,10),(3,10,15),(2,6,9)); lvl=6; h,r-ind=1,1
      [3,3]((7,24,36),(2,7,10),(3,10,15)); lvl=6; h,r-ind=1,1
      [3,3]((7,24,36),(1,3,5),(3,10,15)); lvl=6; h,r-ind=1,1
    [3,3]((3,11,16),(7,24,36),(2,7,10)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((3,11,16),(4,15,21),(2,7,10)); lvl=5; h,r-ind=1,1
    [4,3]((3,11,16),(7,24,36),(5,18,27),(1,3,5)); lvl=5; h,r-ind=1,3
      [3,3]((4,14,21),(7,24,36),(1,3,5)); lvl=6; h,r-ind=1,1
      [3,3]((5,18,27),(4,14,21),(1,3,5)); lvl=6; h,r-ind=1,1
      [3,3]((3,11,16),(5,18,27),(4,14,21)); lvl=6; h,r-ind=1,1
      [3,3]((3,11,16),(4,14,21),(7,24,36)); lvl=6; h,r-ind=1,1
  [3,3]((1,4,6),(1,3,5),(5,18,27)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,6),(2,9,12),(4,15,21),(5,18,27)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [3,3]((3,11,16),(2,8,11),(7,27,39)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
    [4,3]((1,4,6),(2,9,12),(2,8,11),(7,27,39)); lvl=5; h,r-ind=1,3
      [3,3]((3,12,17),(2,9,12),(2,8,11)); lvl=6; h,r-ind=1,1
      [3,3]((7,27,39),(3,12,17),(2,8,11)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,6),(7,27,39),(3,12,17)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,6),(3,12,17),(2,9,12)); lvl=6; h,r-ind=1,1
    [4,3]((1,4,6),(5,18,27),(3,11,16),(7,27,39)); lvl=5; h,r-ind=1,3
      [3,3]((3,11,16),(4,15,22),(5,18,27)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,6),(4,15,22),(5,18,27)); lvl=6; h,r-ind=1,1
      [3,3]((7,27,39),(3,11,16),(4,15,22)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,6),(7,27,39),(4,15,22)); lvl=6; h,r-ind=1,1
    [3,3]((4,15,21),(3,11,16),(2,8,11)); lvl=5; h,r-ind=1,1
[4,3]((1,6,6),(1,3,3),(2,9,12),(2,6,9)); lvl=3; h,r-ind=9,3; alert-r-inc
  [4,3]((2,6,9),(4,15,21),(1,4,5),(1,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,10),(4,15,21),(1,4,5)); lvl=5; h,r-ind=1,1
    [3,3]((4,14,19),(2,7,10),(1,4,5)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,4),(4,14,19),(1,4,5)); lvl=5; h,r-ind=1,1
    [4,3]((2,6,9),(1,3,4),(4,14,19),(2,7,10)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,10,14),(1,3,4),(4,14,19)); lvl=6; h,r-ind=1,1
      [3,3]((3,10,14),(2,7,10),(4,14,19)); lvl=6; h,r-ind=1,1
      [3,3]((2,6,9),(3,10,14),(2,7,10)); lvl=6; h,r-ind=1,1
      [3,3]((2,6,9),(3,10,14),(1,3,4)); lvl=6; h,r-ind=1,1
  [4,3]((2,9,9),(1,3,3),(1,4,5),(1,3,4)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,4),(3,11,13),(1,3,4),(1,3,3)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,8),(3,11,13),(1,3,4)); lvl=6; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,8),(1,3,4)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(2,7,8)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,4),(2,7,8),(3,11,13)); lvl=6; h,r-ind=1,1
    [3,3]((3,11,13),(1,4,5),(1,3,4)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,4),(3,11,13),(1,4,5)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,9),(1,4,4),(1,4,5)); lvl=5; h,r-ind=1,1
  [4,3]((1,6,6),(1,5,6),(2,9,9),(1,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(1,5,6),(3,14,16)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,6),(1,5,5),(1,5,6),(3,14,16)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,10,11),(3,14,16),(1,5,5)); lvl=6; h,r-ind=1,1
      [3,3]((1,6,6),(2,10,11),(1,5,5)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,6),(1,6,6),(2,10,11)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,6),(2,10,11),(3,14,16)); lvl=6; h,r-ind=1,1
    [3,3]((1,5,5),(1,4,5),(3,14,16)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,9),(1,5,5),(1,4,5)); lvl=5; h,r-ind=1,1
  [4,3]((1,5,6),(2,9,12),(4,15,21),(1,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(2,8,11),(4,17,22)); lvl=5; h,r-ind=1,1
    [4,3]((1,5,6),(2,9,12),(2,8,11),(4,17,22)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,13,17),(2,9,12),(2,8,11)); lvl=6; h,r-ind=1,1
      [3,3]((4,17,22),(3,13,17),(2,8,11)); lvl=6; h,r-ind=1,1
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        [3,3]((1,5,6),(4,17,22),(3,13,17)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,6),(3,13,17),(2,9,12)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,6),(4,17,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,5),(4,15,21),(2,8,11)); lvl=5; h,r-ind=1,1
[3,3]((0,1,0),(1,6,6),(1,0,0)); lvl=2; h,r-ind=6,6; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,6,11),(1,6,6),(2,7,12)); lvl=2; h,r-ind=25,5; alert-h-inc; alert-r-inc
  [5,3]((2,12,17),(4,19,29),(1,6,11),(2,9,16),(2,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(2,9,15),(3,14,22)); lvl=4; h,r-ind=1,1
    [4,3]((4,19,29),(2,10,15),(1,5,8),(3,14,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,10,15),(5,24,37)); lvl=5; h,r-ind=1,1
      [3,3]((4,19,29),(2,10,15),(5,24,37)); lvl=5; h,r-ind=1,1
      [3,3]((3,14,22),(4,19,29),(5,24,37)); lvl=5; h,r-ind=1,1
      [3,3]((3,14,22),(1,5,8),(5,24,37)); lvl=5; h,r-ind=1,1
    [3,3]((2,10,15),(4,21,31),(1,5,8)); lvl=4; h,r-ind=1,1
    [4,3]((4,21,31),(2,12,17),(1,5,8),(1,6,9)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,16),(4,22,33),(1,6,9),(2,12,17)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,25),(4,22,33),(1,6,9)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,17),(3,17,25),(1,6,9)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,16),(2,12,17),(3,17,25)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,16),(3,17,25),(4,22,33)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,8),(2,11,16),(4,22,33)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(4,21,31),(2,11,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(4,22,33),(1,6,9)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,8),(1,6,9),(2,12,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(2,9,16),(2,9,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(1,5,9),(2,9,16)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,8),(1,6,11),(2,12,19),(1,5,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,9),(3,16,27),(1,6,10),(1,6,11)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,19),(3,16,27),(1,6,10)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,11),(2,11,19),(1,6,10)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,9),(1,6,11),(2,11,19)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,9),(2,11,19),(3,16,27)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,8),(1,5,9),(3,16,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(3,16,27),(1,6,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(2,12,19),(1,6,10)); lvl=5; h,r-ind=1,1
  [3,3]((1,4,7),(2,9,16),(2,9,15)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,12),(1,4,7),(1,4,6)); lvl=3; h,r-ind=1,1
  [5,3]((1,4,7),(1,4,6),(2,9,13),(4,19,29),(2,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,13),(2,9,14),(1,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(2,9,14),(1,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(2,9,15),(2,9,14)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,13),(2,9,14),(3,14,21)); lvl=4; h,r-ind=1,1
    [4,3]((2,9,14),(4,19,29),(3,14,22),(3,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,29),(3,14,22),(6,28,43)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,14),(3,14,22),(6,28,43)); lvl=5; h,r-ind=1,1
      [3,3]((3,14,21),(2,9,14),(6,28,43)); lvl=5; h,r-ind=1,1
      [3,3]((3,14,21),(4,19,29),(6,28,43)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,15),(2,9,14),(3,14,22)); lvl=4; h,r-ind=1,1
  [5,3]((1,6,6),(2,9,12),(2,9,13),(2,12,17),(4,19,29)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,7),(2,10,15),(3,14,21),(4,19,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,15),(4,19,29),(5,24,36)); lvl=5; h,r-ind=1,1
      [3,3]((3,14,21),(4,19,29),(5,24,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(3,14,21),(5,24,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(2,10,15),(5,24,36)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,7),(2,10,15),(4,21,31)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,8),(1,5,7),(2,12,17),(4,21,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,16),(4,21,31)); lvl=5; h,r-ind=1,1
      [3,3]((4,22,31),(1,5,7),(2,11,16)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,8),(4,22,31),(2,12,17),(2,11,16)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,24),(4,22,31),(2,11,16)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,17),(3,17,24),(2,11,16)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,8),(2,12,17),(3,17,24)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,8),(3,17,24),(4,22,31)); lvl=6; h,r-ind=1,1
      [3,3]((1,6,8),(4,22,31),(1,5,7)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,8),(2,12,15),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,13),(3,14,21)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,12),(1,5,7),(2,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,12),(1,5,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,6),(2,12,15),(1,5,6),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,7),(3,16,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(1,5,7),(3,16,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(2,12,15),(1,5,7)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,6),(1,6,7),(1,5,6),(3,16,20)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,13),(1,6,7),(3,16,20)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,6),(2,11,13),(3,16,20)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,6),(2,11,13),(1,6,7)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,6),(1,6,6),(2,11,13)); lvl=6; h,r-ind=1,1
  [3,3]((1,4,6),(2,9,12),(2,9,13)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,6,11),(1,6,6)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
[3,3]((0,1,0),(1,6,11),(2,12,23)); lvl=2; h,r-ind=1,1
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[3,3]((1,5,19),(1,3,11),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((1,6,23),(1,5,19),(1,0,0)); lvl=1; h,r-ind=1,1
[5,3]((1,5,10),(2,12,23),(1,6,17),(1,5,15),(2,11,33)); lvl=1; h,r-ind=1,1
  [3,3]((2,11,32),(1,6,17),(2,11,33)); lvl=2; h,r-ind=1,1
  [3,3]((2,11,32),(1,5,15),(2,11,33)); lvl=2; h,r-ind=1,1
  [4,3]((2,11,32),(2,11,27),(2,10,25),(1,5,15)); lvl=2; h,r-ind=5,1; alert-h-inc
    [3,3]((1,5,13),(2,11,27),(2,10,25)); lvl=3; h,r-ind=1,1
    [4,3]((4,22,59),(2,10,27),(1,5,13),(2,11,27)); lvl=3; h,r-ind=1,1
      [4,3]((5,26,69),(9,47,124),(1,5,13),(2,10,27)); lvl=4; h,r-ind=1,1
        [3,3]((6,31,82),(1,5,13),(9,47,124)); lvl=5; h,r-ind=1,1
        [3,3]((5,26,69),(6,31,82),(9,47,124)); lvl=5; h,r-ind=1,1
        [3,3]((5,26,69),(2,10,27),(6,31,82)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,27),(6,31,82),(1,5,13)); lvl=5; h,r-ind=1,1
      [3,3]((3,16,43),(5,26,69),(2,10,27)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [5,3]((2,11,29),(3,16,42),(3,16,43),(5,26,69),(9,47,124)); lvl=4; h,r-ind=1,1
        [3,3]((8,42,111),(5,26,69),(9,47,124)); lvl=5; h,r-ind=1,1
        [3,3]((3,16,42),(8,42,111),(9,47,124)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,29),(3,16,42),(12,64,169)); lvl=5; h,r-ind=1,1
        [4,3]((8,42,111),(7,37,98),(4,21,56),(5,26,69)); lvl=5; h,r-ind=1,1
          [3,3]((12,63,167),(4,21,56),(7,37,98)); lvl=6; h,r-ind=1,1
          [3,3]((8,42,111),(12,63,167),(7,37,98)); lvl=6; h,r-ind=1,1
          [3,3]((5,26,69),(8,42,111),(12,63,167)); lvl=6; h,r-ind=1,1
          [3,3]((5,26,69),(12,63,167),(4,21,56)); lvl=6; h,r-ind=1,1
        [4,3]((3,16,42),(8,42,111),(12,64,169),(7,37,98)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((10,53,140),(7,37,98),(8,42,111)); lvl=6; h,r-ind=1,1
          [3,3]((3,16,42),(10,53,140),(8,42,111)); lvl=6; h,r-ind=1,1
          [3,3]((12,64,169),(10,53,140),(7,37,98)); lvl=6; h,r-ind=1,1
          [3,3]((3,16,42),(12,64,169),(10,53,140)); lvl=6; h,r-ind=1,1
        [5,3]((2,11,29),(12,64,169),(7,37,98),(3,16,43),(4,21,56)); lvl=5; h,r-ind=1,1
          [3,3]((13,69,183),(7,37,98),(4,21,56)); lvl=6; h,r-ind=1,1
          [4,3]((13,69,183),(15,80,212),(6,32,85),(4,21,56)); lvl=6; h,r-ind=1,1
            [3,3]((19,101,268),(6,32,85),(15,80,212)); lvl=7; h,r-ind=1,1
            [3,3]((13,69,183),(19,101,268),(15,80,212)); lvl=7; h,r-ind=1,1
            [3,3]((4,21,56),(19,101,268),(6,32,85)); lvl=7; h,r-ind=1,1
            [3,3]((13,69,183),(4,21,56),(19,101,268)); lvl=7; h,r-ind=1,1
          [3,3]((3,16,43),(6,32,85),(4,21,56)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,29),(3,16,43),(6,32,85)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,29),(15,80,212),(6,32,85)); lvl=6; h,r-ind=1,1
          [4,3]((9,48,127),(13,69,183),(15,80,212),(7,37,98)); lvl=6; h,r-ind=1,1
            [3,3]((13,69,183),(15,80,212),(22,117,310)); lvl=7; h,r-ind=1,1
            [3,3]((9,48,127),(15,80,212),(22,117,310)); lvl=7; h,r-ind=1,1
            [3,3]((7,37,98),(9,48,127),(22,117,310)); lvl=7; h,r-ind=1,1
            [3,3]((7,37,98),(13,69,183),(22,117,310)); lvl=7; h,r-ind=1,1
          [3,3]((12,64,169),(9,48,127),(7,37,98)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,29),(12,64,169),(9,48,127)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,29),(9,48,127),(15,80,212)); lvl=6; h,r-ind=1,1
      [3,3]((4,22,59),(2,11,29),(3,16,43)); lvl=4; h,r-ind=1,1
      [5,3]((2,11,27),(3,16,42),(4,22,57),(9,47,124),(1,5,13)); lvl=4; h,r-ind=1,1
        [4,3]((7,37,96),(1,5,13),(2,11,28),(2,11,27)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((3,16,41),(2,11,28),(2,11,27)); lvl=6; h,r-ind=1,1
          [3,3]((3,16,41),(1,5,13),(2,11,27)); lvl=6; h,r-ind=1,1
          [3,3]((7,37,96),(3,16,41),(1,5,13)); lvl=6; h,r-ind=1,1
          [3,3]((7,37,96),(3,16,41),(2,11,28)); lvl=6; h,r-ind=1,1
        [5,3]((10,53,138),(7,37,96),(5,27,70),(9,48,125),(2,11,28)); lvl=5; h,r-ind=1,1
          [3,3]((10,53,138),(7,37,96),(6,32,83)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,28),(7,37,96),(6,32,83)); lvl=6; h,r-ind=1,1
          [3,3]((10,53,138),(9,48,125),(6,32,83)); lvl=6; h,r-ind=1,1
          [3,3]((9,48,125),(5,27,70),(6,32,83)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,28),(5,27,70),(6,32,83)); lvl=6; h,r-ind=1,1
        [3,3]((4,22,57),(5,27,70),(2,11,28)); lvl=5; h,r-ind=1,1
        [4,3]((3,16,42),(4,22,57),(5,27,70),(9,48,125)); lvl=5; h,r-ind=1,1
          [3,3]((4,22,57),(8,43,112),(5,27,70)); lvl=6; h,r-ind=1,1
          [3,3]((9,48,125),(8,43,112),(5,27,70)); lvl=6; h,r-ind=1,1
          [3,3]((3,16,42),(4,22,57),(8,43,112)); lvl=6; h,r-ind=1,1
          [3,3]((9,48,125),(3,16,42),(8,43,112)); lvl=6; h,r-ind=1,1
        [4,3]((10,53,138),(7,37,96),(1,5,13),(4,21,55)); lvl=5; h,r-ind=1,1
          [3,3]((7,37,96),(1,5,13),(11,58,151)); lvl=6; h,r-ind=1,1
          [3,3]((4,21,55),(1,5,13),(11,58,151)); lvl=6; h,r-ind=1,1
          [3,3]((10,53,138),(7,37,96),(11,58,151)); lvl=6; h,r-ind=1,1
          [3,3]((4,21,55),(10,53,138),(11,58,151)); lvl=6; h,r-ind=1,1
        [4,3]((3,16,42),(10,53,138),(4,21,55),(9,48,125)); lvl=5; h,r-ind=1,1
          [3,3]((13,69,180),(10,53,138),(4,21,55)); lvl=6; h,r-ind=1,1
          [3,3]((3,16,42),(13,69,180),(4,21,55)); lvl=6; h,r-ind=1,1
          [3,3]((13,69,180),(9,48,125),(10,53,138)); lvl=6; h,r-ind=1,1
          [3,3]((3,16,42),(13,69,180),(9,48,125)); lvl=6; h,r-ind=1,1
        [3,3]((3,16,42),(9,47,124),(4,21,55)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,13),(9,47,124),(4,21,55)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,29),(3,16,42),(4,22,57)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,32),(4,22,59),(1,5,15),(2,10,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,43),(2,10,27),(1,5,14)); lvl=4; h,r-ind=1,1
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      [3,3]((2,11,30),(3,16,43),(1,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,30),(4,22,61),(1,5,14)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,32),(4,22,61),(1,5,15),(1,5,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,60),(1,5,14),(1,5,15)); lvl=5; h,r-ind=1,1
        [4,3]((2,11,32),(2,11,31),(4,21,60),(1,5,15)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,31),(4,21,60),(3,16,46)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,15),(4,21,60),(3,16,46)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,32),(2,11,31),(3,16,46)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,15),(2,11,32),(3,16,46)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,31),(4,21,60),(1,5,14)); lvl=5; h,r-ind=1,1
        [3,3]((4,22,61),(2,11,31),(1,5,14)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,30),(4,22,59),(3,16,43)); lvl=4; h,r-ind=1,1
[4,3]((2,11,32),(2,11,27),(1,6,14),(1,6,17)); lvl=2; h,r-ind=1,1
  [4,3]((4,22,59),(2,12,31),(2,11,27),(1,6,14)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,27),(4,22,57),(1,6,15),(1,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,28),(4,22,57),(1,6,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,28),(4,23,57),(1,6,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,14),(4,23,57),(1,6,15)); lvl=5; h,r-ind=1,1
      [4,3]((2,11,28),(2,11,27),(1,6,14),(4,23,57)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,27),(3,17,42),(1,6,14)); lvl=6; h,r-ind=1,1
        [3,3]((4,23,57),(3,17,42),(1,6,14)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,28),(4,23,57),(3,17,42)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,28),(2,11,27),(3,17,42)); lvl=6; h,r-ind=1,1
    [3,3]((2,11,29),(4,22,57),(1,6,15)); lvl=4; h,r-ind=1,1
    [3,3]((3,17,45),(2,11,29),(1,6,15)); lvl=4; h,r-ind=1,1
    [3,3]((3,17,45),(2,12,31),(1,6,15)); lvl=4; h,r-ind=1,1
    [3,3]((3,17,45),(4,22,59),(2,11,29)); lvl=4; h,r-ind=1,1
  [4,3]((2,11,32),(4,22,59),(1,6,17),(2,12,31)); lvl=3; h,r-ind=1,1
    [3,3]((3,17,45),(2,12,31),(1,6,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,30),(3,17,45),(1,6,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,30),(4,22,61),(1,6,16)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,32),(4,22,61),(1,6,17),(1,6,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,16),(1,6,17),(4,23,64)); lvl=5; h,r-ind=1,1
      [4,3]((2,11,31),(2,11,32),(1,6,17),(4,23,64)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,48),(2,11,32),(1,6,17)); lvl=6; h,r-ind=1,1
        [3,3]((4,23,64),(3,17,48),(1,6,17)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,31),(4,23,64),(3,17,48)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,31),(3,17,48),(2,11,32)); lvl=6; h,r-ind=1,1
      [3,3]((2,11,31),(1,6,16),(4,23,64)); lvl=5; h,r-ind=1,1
      [3,3]((4,22,61),(2,11,31),(1,6,16)); lvl=5; h,r-ind=1,1
    [3,3]((4,22,59),(2,11,30),(3,17,45)); lvl=4; h,r-ind=1,1
[5,3]((1,5,10),(2,11,27),(2,10,25),(1,6,12),(1,6,14)); lvl=2; h,r-ind=1,1
  [5,3]((1,5,12),(2,10,23),(1,6,14),(4,22,53),(1,6,13)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((1,6,13),(2,10,23),(3,16,37)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((1,5,12),(2,10,23),(3,16,37)); lvl=4; h,r-ind=1,1
    [4,3]((3,17,39),(4,22,51),(1,6,13),(3,16,37)); lvl=4; h,r-ind=1,1
      [4,3]((4,22,51),(9,50,115),(2,11,25),(3,16,37)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((9,50,115),(6,33,76),(2,11,25)); lvl=6; h,r-ind=1,1
        [3,3]((3,16,37),(6,33,76),(2,11,25)); lvl=6; h,r-ind=1,1
        [3,3]((4,22,51),(9,50,115),(6,33,76)); lvl=6; h,r-ind=1,1
        [3,3]((3,16,37),(4,22,51),(6,33,76)); lvl=6; h,r-ind=1,1
      [3,3]((3,17,39),(4,22,51),(9,50,115)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,13),(3,17,39),(9,50,115),(2,11,25)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,39),(9,50,115),(5,28,64)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,25),(9,50,115),(5,28,64)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,13),(2,11,25),(5,28,64)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,13),(3,17,39),(5,28,64)); lvl=6; h,r-ind=1,1
    [4,3]((1,5,12),(2,11,26),(4,22,51),(3,16,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,26),(4,22,51),(5,27,63)); lvl=5; h,r-ind=1,1
      [3,3]((3,16,37),(4,22,51),(5,27,63)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,12),(2,11,26),(5,27,63)); lvl=5; h,r-ind=1,1
      [3,3]((3,16,37),(1,5,12),(5,27,63)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,12),(4,22,53),(2,11,26)); lvl=4; h,r-ind=1,1
    [3,3]((3,17,39),(1,6,14),(1,6,13)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,26),(3,17,39),(4,22,51),(1,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((5,28,65),(3,17,39),(4,22,51)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,26),(5,28,65),(4,22,51)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,14),(2,11,26),(5,28,65)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,14),(5,28,65),(3,17,39)); lvl=5; h,r-ind=1,1
    [3,3]((4,22,53),(2,11,26),(1,6,14)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,10),(2,10,23),(1,6,12),(1,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,12),(1,6,13),(3,17,36)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,11),(1,6,13),(3,17,36)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,11),(2,10,23),(1,6,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,10),(1,5,11),(1,6,12),(3,17,36)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,11,23),(3,17,36),(1,5,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(2,11,23),(1,5,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,12),(1,5,10),(2,11,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,12),(2,11,23),(3,17,36)); lvl=5; h,r-ind=1,1
  [3,3]((2,11,27),(1,6,14),(4,22,53)); lvl=3; h,r-ind=1,1
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```
    [4,3]((2,10,25),(1,5,12),(2,11,27),(4,22,53)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,11,27),(4,22,53),(3,16,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(4,22,53),(3,16,39)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,25),(2,11,27),(3,16,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(2,10,25),(3,16,39)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,10),(2,12,23),(1,6,12)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(2,12,23),(1,6,17)); lvl=1; h,r-ind=11,11; optimized-h
[3,3]((1,6,23),(0,1,0),(1,6,17)); lvl=1; h,r-ind=6,6; optimized-h
[5,3]((1,5,19),(1,3,11),(2,11,41),(1,5,15),(2,11,33)); lvl=1; h,r-ind=2,1
  [4,3]((1,5,17),(1,5,18),(2,11,41),(2,11,37)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,18),(6,31,109),(2,11,39),(2,11,41)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [3,3]((2,11,39),(4,21,75),(4,21,74)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,5,18),(6,31,109),(4,21,75),(4,21,74)); lvl=4; h,r-ind=1,2
        [3,3]((5,26,92),(4,21,74),(4,21,75)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,18),(5,26,92),(4,21,75)); lvl=5; h,r-ind=1,1
        [3,3]((6,31,109),(5,26,92),(4,21,74)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,18),(6,31,109),(5,26,92)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,40),(2,11,39),(4,21,75)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,5,18),(2,11,40),(2,11,41),(4,21,75)); lvl=4; h,r-ind=1,2
        [3,3]((3,16,58),(2,11,41),(2,11,40)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,75),(3,16,58),(2,11,40)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,18),(4,21,75),(3,16,58)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,18),(3,16,58),(2,11,41)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,17),(1,5,18),(6,31,109)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,37),(1,5,17),(6,31,109),(2,11,39)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((4,21,73),(1,5,17),(4,21,74),(6,31,109)); lvl=4; h,r-ind=1,2
        [3,3]((5,26,91),(6,31,109),(1,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,73),(5,26,91),(1,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((5,26,91),(4,21,74),(6,31,109)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,73),(5,26,91),(4,21,74)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,39),(4,21,73),(4,21,74)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((2,11,38),(2,11,39),(4,21,73)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((2,11,38),(2,11,37),(4,21,73),(1,5,17)); lvl=4; h,r-ind=1,2
        [3,3]((3,16,55),(1,5,17),(2,11,37)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,38),(3,16,55),(2,11,37)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,73),(3,16,55),(1,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,38),(4,21,73),(3,16,55)); lvl=5; h,r-ind=1,1
  [4,3]((1,5,16),(1,5,17),(2,11,33),(2,11,37)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,17),(6,31,101),(2,11,37),(2,11,35)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,5,17),(4,21,69),(2,11,36),(2,11,37)); lvl=4; h,r-ind=1,2
        [3,3]((2,11,36),(3,16,53),(4,21,69)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,17),(3,16,53),(4,21,69)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,37),(2,11,36),(3,16,53)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,17),(2,11,37),(3,16,53)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,35),(4,21,69),(2,11,36)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((4,21,68),(2,11,35),(4,21,69)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,5,17),(4,21,68),(6,31,101),(4,21,69)); lvl=4; h,r-ind=1,2
        [3,3]((5,26,85),(4,21,68),(6,31,101)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,17),(5,26,85),(6,31,101)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,69),(5,26,85),(4,21,68)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,17),(4,21,69),(5,26,85)); lvl=5; h,r-ind=1,1
    [4,3]((1,5,16),(6,31,101),(2,11,33),(2,11,35)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,5,16),(4,21,67),(2,11,34),(2,11,33)); lvl=4; h,r-ind=1,2
        [3,3]((3,16,50),(4,21,67),(2,11,34)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,33),(3,16,50),(2,11,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,16),(2,11,33),(3,16,50)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,16),(3,16,50),(4,21,67)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,35),(4,21,67),(2,11,34)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((4,21,68),(2,11,35),(4,21,67)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,5,16),(6,31,101),(4,21,68),(4,21,67)); lvl=4; h,r-ind=1,2
        [3,3]((6,31,101),(5,26,84),(4,21,68)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,67),(5,26,84),(4,21,68)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,16),(4,21,67),(5,26,84)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,16),(6,31,101),(5,26,84)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,16),(1,5,17),(6,31,101)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,16),(1,5,15),(2,11,33)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,16),(1,4,13),(2,9,30),(1,5,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,30),(2,9,29),(1,4,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,15),(2,9,29),(1,4,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,16),(2,9,30),(2,9,29)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,15),(1,5,16),(2,9,29)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,19),(1,5,18),(2,11,41)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,17),(2,9,32),(1,5,18),(2,9,31)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,18),(2,9,32),(3,14,49)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,31),(2,9,32),(3,14,49)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,17),(1,5,18),(3,14,49)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,31),(1,5,17),(3,14,49)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,16),(1,5,17),(2,9,31),(2,9,30)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,17),(2,9,31),(3,14,47)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,30),(2,9,31),(3,14,47)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,5,16),(1,5,17),(3,14,47)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,30),(1,5,16),(3,14,47)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,13),(1,3,11),(2,9,31),(2,9,30)); lvl=2; h,r-ind=1,1
      [4,3]((2,9,30),(1,4,14),(4,17,57),(2,9,31)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,44),(4,17,57),(1,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,31),(3,13,44),(1,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,30),(2,9,31),(3,13,44)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,30),(3,13,44),(4,17,57)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,13),(1,4,14),(4,17,57)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,30),(1,4,13),(4,17,57)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,13),(1,3,11),(1,4,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,11),(1,4,15),(2,9,32),(2,9,31)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,32),(1,4,15),(4,17,61)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,14),(1,4,15),(4,17,61)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,11),(1,4,14),(1,4,15)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,31),(1,4,14),(2,9,32),(4,17,61)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,46),(4,17,61),(1,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,31),(3,13,46),(1,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,46),(2,9,32),(4,17,61)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,31),(3,13,46),(2,9,32)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,19),(1,4,15),(2,9,32),(1,5,18)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,15),(2,9,32),(2,9,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,18),(2,9,32),(2,9,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,19),(1,5,18),(2,9,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,19),(1,4,15),(2,9,33)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,23),(1,5,19),(2,11,41)); lvl=1; h,r-ind=1,1
  [4,3]((1,6,23),(1,6,17),(2,11,41),(2,11,33)); lvl=1; h,r-ind=2,1
    [4,3]((1,6,20),(1,6,17),(2,11,37),(2,11,33)); lvl=2; h,r-ind=1,1
      [4,3]((2,12,37),(1,6,17),(2,11,35),(2,11,33)); lvl=3; h,r-ind=1,1
        [4,3]((1,6,18),(1,6,17),(2,11,33),(2,11,34)); lvl=4; h,r-ind=1,1
          [3,3]((1,6,17),(2,11,33),(3,17,51)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,34),(2,11,33),(3,17,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,18),(1,6,17),(3,17,51)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,34),(1,6,18),(3,17,51)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,18),(2,11,35),(2,11,34)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,18),(2,12,37),(2,11,35)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,20),(2,12,37),(2,11,37),(2,11,35)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,19),(2,11,36),(2,11,35)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,19),(2,12,37),(2,11,35)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,20),(1,6,19),(2,11,36),(2,11,37)); lvl=4; h,r-ind=1,1
          [3,3]((1,6,19),(2,11,36),(3,17,56)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,37),(2,11,36),(3,17,56)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,20),(1,6,19),(3,17,56)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,37),(1,6,20),(3,17,56)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,23),(1,6,20),(2,11,41),(2,11,37)); lvl=2; h,r-ind=1,1
      [4,3]((2,12,43),(1,6,20),(2,11,39),(2,11,37)); lvl=3; h,r-ind=1,1
        [4,3]((1,6,21),(1,6,20),(2,11,37),(2,11,38)); lvl=4; h,r-ind=1,1
          [3,3]((1,6,20),(2,11,37),(3,17,58)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,38),(2,11,37),(3,17,58)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,21),(1,6,20),(3,17,58)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,38),(1,6,21),(3,17,58)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,21),(2,11,39),(2,11,38)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,43),(1,6,21),(2,11,39)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,23),(2,12,43),(2,11,41),(2,11,39)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,22),(2,11,39),(2,11,40)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,23),(1,6,22),(2,11,41),(2,11,40)); lvl=4; h,r-ind=1,1
          [3,3]((2,11,41),(2,11,40),(3,17,63)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,22),(2,11,40),(3,17,63)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,23),(1,6,22),(3,17,63)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,23),(2,11,41),(3,17,63)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,22),(2,12,43),(2,11,39)); lvl=4; h,r-ind=1,1
```

23.19 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,7,23)); lvl=0; h,r-ind=23,529
  [5,3]((2,9,27),(1,4,13),(2,5,16),(1,2,6),(2,11,35)); lvl=1; h,r-ind=1,1
    [4,3]((1,5,16),(2,8,25),(1,4,12),(2,7,21)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,25),(2,7,21),(3,12,37)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,12),(2,7,21),(3,12,37)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,16),(1,4,12),(3,12,37)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,16),(2,8,25),(3,12,37)); lvl=3; h,r-ind=1,1
    [4,3]((2,8,25),(1,2,6),(2,6,19),(2,7,21)); lvl=2; h,r-ind=1,1
      [4,3]((2,7,22),(2,6,19),(1,3,9),(1,2,6)); lvl=3; h,r-ind=1,1
        [3,3]((3,9,28),(1,2,6),(2,6,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,22),(3,9,28),(2,6,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,9),(3,9,28),(1,2,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,22),(1,3,9),(3,9,28)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,8,25),(2,7,22),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,21),(2,8,25),(1,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,16),(1,2,6),(2,6,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,13),(2,5,16),(2,6,19)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,13),(1,5,16),(2,8,25),(2,6,19)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,16),(4,16,51),(2,8,25),(2,7,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,12,38),(2,7,22),(4,16,51)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,16),(3,12,38),(4,16,51)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,25),(3,12,38),(2,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,16),(2,8,25),(3,12,38)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,19),(1,4,13),(4,16,51),(2,7,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,13),(4,16,51),(3,11,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,22),(4,16,51),(3,11,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,19),(1,4,13),(3,11,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,22),(2,6,19),(3,11,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,13),(1,5,16),(4,16,51)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,31),(1,5,16),(1,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,31),(2,9,27),(1,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,31),(2,11,35),(1,5,16)); lvl=2; h,r-ind=1,1
  [4,3]((1,7,23),(2,9,27),(1,7,16),(2,11,35)); lvl=1; h,r-ind=1,3
    [4,3]((1,5,15),(2,11,34),(2,9,27),(2,10,31)); lvl=2; h,r-ind=1,1
      [3,3]((3,15,46),(2,10,31),(2,11,34)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,15),(3,15,46),(2,11,34)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,15),(2,9,27),(3,15,46)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,27),(3,15,46),(2,10,31)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,35),(1,6,19),(2,11,34),(2,10,31)); lvl=2; h,r-ind=1,1
      [3,3]((3,16,50),(1,6,19),(2,11,34)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,31),(3,16,50),(2,11,34)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,35),(3,16,50),(1,6,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,31),(2,11,35),(3,16,50)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,23),(2,11,35),(1,6,19)); lvl=2; h,r-ind=1,1
    [4,3]((4,22,65),(2,12,35),(1,6,19),(2,11,34)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((2,11,33),(2,11,34),(1,6,18),(1,6,19)); lvl=3; h,r-ind=1,1
        [3,3]((3,17,52),(1,6,19),(1,6,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,33),(3,17,52),(1,6,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,34),(3,17,52),(1,6,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,33),(2,11,34),(3,17,52)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,50),(2,11,33),(1,6,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,50),(4,22,65),(2,11,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,50),(1,6,18),(2,12,35)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,23),(2,14,39),(2,12,35),(1,6,19)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,18),(2,12,35),(2,13,37)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,20),(1,6,18),(2,13,37)); lvl=3; h,r-ind=1,1
      [3,3]((2,14,39),(1,7,20),(2,13,37)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,21),(1,7,20),(1,6,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,19),(1,7,23),(1,7,21),(1,6,18)); lvl=3; h,r-ind=1,1
        [4,3]((1,6,18),(3,19,59),(1,7,22),(1,7,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,19,59),(2,13,40),(1,7,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,21),(2,13,40),(1,7,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,18),(3,19,59),(2,13,40)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,21),(1,6,18),(2,13,40)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,19),(1,6,18),(3,19,59)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,19),(3,19,59),(1,7,23),(1,7,22)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,7,23),(2,13,41),(1,7,22)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,59),(2,13,41),(1,7,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,19),(1,7,23),(2,13,41)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,59),(1,6,19),(2,13,41)); lvl=5; h,r-ind=1,1
    [3,3]((4,22,65),(1,5,15),(2,11,34)); lvl=2; h,r-ind=3,3; alert-h-inc; optimized-h
    [3,3]((1,5,15),(1,5,14),(2,9,27)); lvl=2; h,r-ind=1,1
    [4,3]((4,22,65),(1,5,15),(1,5,14),(2,11,29)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,15),(1,5,14),(6,31,89)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,29),(2,11,31),(1,5,14),(6,31,89)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,5,14),(4,21,59),(4,21,60),(6,31,89)); lvl=4; h,r-ind=1,2
          [3,3]((4,21,59),(5,26,74),(4,21,60)); lvl=5; h,r-ind=1,1
          [3,3]((6,31,89),(5,26,74),(4,21,60)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(4,21,59),(5,26,74)); lvl=5; h,r-ind=1,1
          [3,3]((6,31,89),(1,5,14),(5,26,74)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,59),(2,11,31),(4,21,60)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((2,11,30),(4,21,59),(2,11,31)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,5,14),(2,11,30),(2,11,29),(4,21,59)); lvl=4; h,r-ind=1,2
          [3,3]((3,16,44),(2,11,29),(2,11,30)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,59),(3,16,44),(2,11,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(4,21,59),(3,16,44)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(3,16,44),(2,11,29)); lvl=5; h,r-ind=1,1
      [4,3]((2,11,32),(2,11,31),(1,5,15),(6,31,89)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,15),(8,42,121),(6,31,89),(4,21,60)); lvl=4; h,r-ind=1,1
          [3,3]((5,26,75),(8,42,121),(4,21,60)); lvl=5; h,r-ind=1,1
          [3,3]((6,31,89),(5,26,75),(4,21,60)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,15),(6,31,89),(5,26,75)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,15),(5,26,75),(8,42,121)); lvl=5; h,r-ind=1,1
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      [4,3]((3,16,46),(2,11,31),(8,42,121),(4,21,60)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,60),(7,37,106),(8,42,121)); lvl=5; h,r-ind=1,1
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        [3,3]((3,16,46),(2,11,31),(7,37,106)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,31),(4,21,60),(7,37,106)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,32),(3,16,46),(2,11,31)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,46),(1,5,15),(8,42,121)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,32),(3,16,46),(1,5,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,32),(4,22,65),(1,5,15)); lvl=3; h,r-ind=1,1
  [5,3]((2,14,39),(4,22,65),(2,12,35),(1,7,16),(2,11,29)); lvl=2; h,r-ind=1,1
    [4,3]((3,17,50),(4,22,65),(2,11,32),(1,6,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,22,65),(2,11,32),(5,28,82)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,17),(2,11,32),(5,28,82)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,50),(1,6,17),(5,28,82)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,50),(4,22,65),(5,28,82)); lvl=4; h,r-ind=1,1
    [4,3]((2,12,33),(2,11,31),(2,11,32),(1,6,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,48),(2,11,32),(2,11,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,33),(3,17,48),(2,11,31)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,48),(1,6,17),(2,11,32)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,33),(3,17,48),(1,6,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,18),(1,7,19),(2,12,33),(1,6,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,35),(2,12,33),(1,6,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,19),(2,13,35),(1,6,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,18),(1,7,19),(2,13,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,18),(2,13,35),(2,12,33)); lvl=4; h,r-ind=1,1
    [4,3]((2,12,33),(1,6,15),(2,11,29),(2,11,31)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,16),(1,6,15),(2,11,29),(2,11,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,15),(2,11,29),(3,17,45)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,30),(2,11,29),(3,17,45)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,16),(1,6,15),(3,17,45)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,30),(1,6,16),(3,17,45)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,16),(2,11,31),(2,11,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,16),(2,12,33),(2,11,31)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,18),(2,12,33),(1,7,16),(1,6,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,16),(1,7,17),(1,6,15),(1,6,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,15),(1,6,16),(2,13,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,17),(1,6,16),(2,13,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,16),(1,7,17),(2,13,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,16),(1,6,15),(2,13,32)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,18),(1,7,17),(1,6,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,18),(2,12,33),(1,6,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,35),(3,17,50),(1,6,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,37),(2,12,35),(1,6,17)); lvl=3; h,r-ind=1,1
    [4,3]((2,14,39),(2,13,37),(1,7,19),(1,6,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,17),(2,13,37),(3,20,56)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,39),(2,13,37),(3,20,56)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,19),(2,14,39),(3,20,56)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,19),(1,6,17),(3,20,56)); lvl=4; h,r-ind=1,1
[3,3]((1,7,23),(1,4,13),(2,11,35)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((1,0,0),(1,4,13),(2,5,16)); lvl=1; h,r-ind=1,1
[3,3]((1,7,23),(1,0,0),(1,4,13)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(2,5,16),(1,2,6)); lvl=1; h,r-ind=2,2; optimized-h
[5,3]((2,14,23),(2,9,27),(1,7,16),(1,2,6),(1,2,4)); lvl=1; h,r-ind=5,1
  [4,3]((2,9,18),(2,9,20),(1,2,4),(1,2,5)); lvl=2; h,r-ind=5,1
    [4,3]((1,4,8),(2,7,14),(1,4,9),(2,7,16)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,9),(4,15,32),(2,7,15),(2,7,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,15,32),(3,11,24),(2,7,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,16),(3,11,24),(2,7,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,9),(4,15,32),(3,11,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,16),(1,4,9),(3,11,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,8),(1,4,9),(4,15,32)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,8),(4,15,32),(2,7,14),(2,7,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,23),(2,7,14),(2,7,15)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,32),(3,11,23),(2,7,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(4,15,32),(3,11,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(3,11,23),(2,7,14)); lvl=5; h,r-ind=1,1
    [4,3]((2,7,14),(1,2,4),(1,2,5),(2,7,16)); lvl=3; h,r-ind=3,1
      [4,3]((1,3,6),(1,2,4),(1,3,7),(1,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(1,2,5),(2,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(1,2,5),(2,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(1,2,4),(2,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(1,3,6),(2,5,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,15),(1,3,6),(1,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,16),(2,7,15),(1,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,14),(2,7,15),(1,3,6)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,19),(1,4,8),(1,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,20),(2,9,19),(1,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,18),(2,9,19),(1,4,8)); lvl=3; h,r-ind=1,1
  [6,3]((2,7,21),(1,4,11),(2,9,22),(2,9,20),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,10),(2,9,21),(2,9,22)); lvl=3; h,r-ind=1,1
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    [3,3]((1,4,11),(1,4,10),(2,9,22)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,11),(3,11,29),(1,4,10),(3,11,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,10),(3,11,29),(4,15,40)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,30),(3,11,29),(4,15,40)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(1,4,10),(4,15,40)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,30),(1,4,11),(4,15,40)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,21),(1,4,11),(3,11,30),(2,7,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,31),(3,11,30),(1,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,21),(3,11,31),(1,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,31),(2,7,20),(3,11,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,21),(3,11,31),(2,7,20)); lvl=4; h,r-ind=1,1
    [6,3]((1,3,9),(3,11,29),(4,14,37),(3,10,27),(3,11,30),(2,7,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,27),(2,7,19),(1,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,20),(2,7,19),(1,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,30),(2,7,20),(2,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,29),(3,11,30),(2,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((4,14,37),(3,10,27),(2,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,29),(4,14,37),(2,7,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,21),(1,3,9),(2,7,20)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,9),(1,4,10),(2,9,20),(2,9,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,20),(2,9,21),(3,13,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,10),(2,9,21),(3,13,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(2,9,20),(3,13,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,10),(1,4,9),(3,13,30)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,9),(2,7,16),(1,4,10),(2,7,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,10),(4,15,36),(2,7,17),(2,7,18)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,15,36),(3,11,27),(2,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,18),(3,11,27),(2,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,10),(4,15,36),(3,11,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,18),(1,4,10),(3,11,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,9),(1,4,10),(4,15,36)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,9),(4,15,36),(2,7,16),(2,7,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,26),(2,7,16),(2,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,36),(3,11,26),(2,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,9),(4,15,36),(3,11,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,9),(3,11,26),(2,7,16)); lvl=5; h,r-ind=1,1
    [4,3]((3,11,29),(4,14,37),(1,4,10),(2,7,18)); lvl=3; h,r-ind=1,1
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      [3,3]((1,4,10),(2,7,18),(5,18,47)); lvl=4; h,r-ind=1,1
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      [3,3]((3,11,29),(4,14,37),(5,18,47)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,8),(4,14,37),(3,10,27),(2,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,27),(4,14,37),(5,17,45)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,18),(4,14,37),(5,17,45)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(2,7,18),(5,17,45)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(3,10,27),(5,17,45)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,9),(1,2,6),(1,3,8),(3,10,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(2,6,17),(1,3,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,27),(2,6,17),(1,3,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(3,10,27),(2,6,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(1,2,6),(2,6,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,5),(1,3,8),(2,7,16),(2,7,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,8),(2,7,18),(5,16,40),(3,10,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,18),(4,13,33),(3,10,25)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,40),(4,13,33),(3,10,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(5,16,40),(4,13,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(2,7,18),(4,13,33)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,7),(2,7,17),(5,16,40),(3,10,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,25),(2,7,17),(4,13,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(2,7,17),(4,13,32)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,40),(1,3,7),(4,13,32)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,40),(3,10,25),(4,13,32)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,5),(1,3,8),(1,3,7),(5,16,40)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,6,15),(1,3,8),(5,16,40)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,15),(1,3,7),(5,16,40)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(2,6,15),(1,3,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(2,6,15),(1,3,8)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,7),(2,7,17),(2,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,17),(2,7,18),(3,10,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,6),(1,2,5),(1,3,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,12),(2,7,21),(1,4,11)); lvl=2; h,r-ind=1,1
[5,3]((1,4,12),(1,5,14),(1,5,13),(1,4,11),(2,9,22)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,23),(2,9,22),(1,5,13)); lvl=3; h,r-ind=1,1
  [4,3]((4,19,51),(2,9,24),(2,9,23),(1,5,13)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((3,14,37),(2,9,23),(2,9,24)); lvl=4; h,r-ind=1,1
    [3,3]((4,19,51),(3,14,37),(2,9,24)); lvl=4; h,r-ind=1,1
    [3,3]((3,14,37),(1,5,13),(2,9,23)); lvl=4; h,r-ind=1,1
    [3,3]((4,19,51),(3,14,37),(1,5,13)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,14),(4,19,51),(1,5,13)); lvl=3; h,r-ind=1,1
  [4,3]((2,9,24),(4,17,47),(2,9,23),(1,4,11)); lvl=3; h,r-ind=1,2; alert-r-inc
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      [3,3]((1,4,11),(4,17,47),(3,13,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,24),(4,17,47),(3,13,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,23),(1,4,11),(3,13,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,24),(2,9,23),(3,13,35)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,12),(4,17,47),(1,4,11)); lvl=3; h,r-ind=1,1
    [5,3]((1,4,12),(1,5,14),(4,19,51),(2,9,24),(4,17,47)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,38),(4,19,51),(1,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,38),(5,23,63),(1,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((5,23,63),(2,9,25),(1,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,12),(2,9,25),(1,5,14)); lvl=4; h,r-ind=1,1
      [4,3]((5,23,63),(5,22,61),(2,9,25),(4,18,49)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,25),(5,22,61),(6,27,74)); lvl=5; h,r-ind=1,1
        [3,3]((4,18,49),(5,22,61),(6,27,74)); lvl=5; h,r-ind=1,1
        [3,3]((5,23,63),(2,9,25),(6,27,74)); lvl=5; h,r-ind=1,1
        [3,3]((4,18,49),(5,23,63),(6,27,74)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,12),(5,22,61),(2,9,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,38),(4,19,51),(2,9,24)); lvl=4; h,r-ind=1,1
      [4,3]((3,14,38),(5,23,63),(4,18,49),(2,9,24)); lvl=4; h,r-ind=1,1
        [3,3]((5,23,63),(4,18,49),(7,32,87)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,24),(4,18,49),(7,32,87)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,38),(5,23,63),(7,32,87)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,24),(3,14,38),(7,32,87)); lvl=5; h,r-ind=1,1
      [4,3]((3,13,36),(5,22,61),(4,18,49),(2,9,24)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,49),(5,22,61),(7,31,85)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,36),(5,22,61),(7,31,85)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,24),(3,13,36),(7,31,85)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,24),(4,18,49),(7,31,85)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,36),(4,17,47),(2,9,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,12),(3,13,36),(4,17,47)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,12),(3,13,36),(5,22,61)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,23),(1,4,11),(2,9,22)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,14),(1,5,13),(2,11,29)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,12),(2,9,27),(1,5,14)); lvl=2; h,r-ind=1,1
  [4,3]((2,9,18),(2,10,17),(1,5,9),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,9),(6,27,49),(2,9,16),(2,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((6,27,49),(3,14,25),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,17),(3,14,25),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(6,27,49),(3,14,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,17),(1,5,9),(3,14,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(2,9,16),(2,10,17)); lvl=3; h,r-ind=1,1
    [5,3]((2,9,18),(1,4,8),(3,13,24),(1,5,9),(6,27,49)); lvl=3; h,r-ind=1,1
      [3,3]((4,18,33),(3,13,24),(6,27,49)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,33),(1,5,9),(6,27,49)); lvl=4; h,r-ind=1,1
      [3,3]((6,27,50),(4,18,33),(1,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,17),(6,27,50),(1,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,18),(2,9,17),(1,5,9)); lvl=4; h,r-ind=1,1
      [4,3]((5,22,41),(6,27,50),(4,18,33),(3,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((9,40,74),(6,27,50),(4,18,33)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,24),(9,40,74),(4,18,33)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,41),(3,13,24),(9,40,74)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,41),(9,40,74),(6,27,50)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,8),(5,22,41),(3,13,24)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,17),(1,4,8),(5,22,41),(6,27,50)); lvl=4; h,r-ind=1,1
        [3,3]((7,31,58),(5,22,41),(1,4,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,17),(7,31,58),(1,4,8)); lvl=5; h,r-ind=1,1
        [3,3]((6,27,50),(7,31,58),(5,22,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,17),(6,27,50),(7,31,58)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,18),(2,9,17),(1,4,8)); lvl=4; h,r-ind=1,1
    [5,3]((3,13,24),(2,8,15),(1,4,7),(6,27,49),(2,9,16)); lvl=3; h,r-ind=1,1
      [5,3]((2,8,15),(6,26,47),(7,30,55),(9,39,71),(1,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,17,31),(9,39,71),(6,26,47)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(4,17,31),(6,26,47)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,15),(1,4,7),(4,17,31)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,31),(7,30,55),(9,39,71)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,15),(4,17,31),(7,30,55)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,16),(6,26,47),(1,4,7)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,16),(5,22,40),(6,26,47),(9,39,71)); lvl=4; h,r-ind=1,1
        [3,3]((9,39,71),(6,26,47),(11,48,87)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,16),(6,26,47),(11,48,87)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,40),(2,9,16),(11,48,87)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,40),(9,39,71),(11,48,87)); lvl=5; h,r-ind=1,1
      [3,3]((6,27,49),(2,9,16),(5,22,40)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,24),(2,8,15),(7,30,55)); lvl=4; h,r-ind=1,1
      [4,3]((3,13,24),(5,22,40),(7,30,55),(9,39,71)); lvl=4; h,r-ind=1,1
        [3,3]((12,52,95),(9,39,71),(5,22,40)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,24),(12,52,95),(5,22,40)); lvl=5; h,r-ind=1,1
        [3,3]((7,30,55),(12,52,95),(9,39,71)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,24),(7,30,55),(12,52,95)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,24),(6,27,49),(5,22,40)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,8),(2,7,14),(3,13,24),(2,8,15)); lvl=3; h,r-ind=1,1
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      [3,3]((2,7,14),(3,12,23),(2,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,24),(3,12,23),(2,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(3,13,24),(3,12,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(2,7,14),(3,12,23)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,14),(2,8,15),(1,2,4),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(2,8,15),(4,15,28)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,6),(2,7,14),(2,8,15),(4,15,28)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,21),(2,7,14),(2,8,15)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,28),(3,11,21),(2,8,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(4,15,28),(3,11,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(3,11,21),(2,7,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,7),(4,15,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,6),(1,4,7)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,10),(2,10,17),(1,5,9)); lvl=2; h,r-ind=1,1
  [4,3]((2,9,18),(2,10,21),(1,5,10),(2,9,20)); lvl=2; h,r-ind=1,1
    [3,3]((4,19,40),(1,5,10),(2,10,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,20),(4,19,40),(2,10,21)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,9,19),(2,9,20),(4,19,40)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,9,19),(2,9,18),(4,19,40),(1,5,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,18),(1,5,10),(3,14,29)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,40),(1,5,10),(3,14,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,19),(2,9,18),(3,14,29)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,40),(2,9,19),(3,14,29)); lvl=4; h,r-ind=1,1
  [7,3]((1,7,16),(1,5,13),(2,11,29),(2,9,22),(2,14,27),(2,10,21),(2,9,20)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,13),(1,7,14),(2,14,29)); lvl=3; h,r-ind=1,1
    [6,3]((1,6,13),(2,11,26),(2,11,25),(1,6,15),(1,7,16),(2,14,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,27),(1,6,13),(2,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,14),(2,12,27),(2,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,26),(1,6,14),(2,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,26),(1,6,14),(1,6,15)); lvl=4; h,r-ind=1,1
      [4,3]((2,12,27),(1,7,15),(2,14,29),(1,6,13)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,28),(1,7,15),(2,14,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,13),(2,13,28),(2,14,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,27),(1,6,13),(2,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,27),(2,13,28),(1,7,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,14),(2,12,27),(1,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,14),(1,7,16),(1,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,14),(1,6,15),(1,7,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,24),(1,6,13),(2,11,25)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,11),(2,10,23),(2,11,24),(2,11,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,36),(2,11,25),(2,11,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(3,16,36),(2,11,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(3,16,36),(2,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,36),(2,10,23),(2,11,25)); lvl=4; h,r-ind=1,1
    [4,3]((2,9,21),(1,5,11),(2,9,20),(2,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,32),(2,9,20),(1,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,23),(3,14,32),(1,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,21),(2,10,23),(3,14,32)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,21),(3,14,32),(2,9,20)); lvl=4; h,r-ind=1,1
    [5,3]((2,11,26),(3,16,39),(3,16,40),(2,11,28),(1,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,27),(3,16,40),(3,16,39)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,26),(2,11,27),(3,16,39)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,27),(3,16,40),(2,11,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,27),(1,6,15),(2,11,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,26),(2,11,27),(1,6,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,29),(2,11,28),(1,6,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,13),(2,11,29),(3,16,40),(2,11,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,29),(3,16,41),(2,11,28)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,40),(3,16,41),(2,11,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,13),(3,16,40),(3,16,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,13),(2,11,29),(3,16,41)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,13),(3,16,39),(1,5,12),(3,16,40)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,12),(3,16,39),(4,21,52)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,40),(3,16,39),(4,21,52)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,13),(1,5,12),(4,21,52)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,40),(1,5,13),(4,21,52)); lvl=4; h,r-ind=1,1
    [5,3]((2,10,23),(2,11,26),(2,11,25),(3,16,39),(1,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,25),(4,21,49),(2,10,23)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,5,12),(4,21,49),(2,10,23)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,25),(5,27,63),(6,32,75),(4,21,49)); lvl=4; h,r-ind=1,1
        [3,3]((5,27,63),(6,32,75),(14,75,175)); lvl=5; h,r-ind=1,1
        [4,3]((3,16,37),(4,21,49),(6,32,75),(14,75,175)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,21,49),(9,48,112),(6,32,75)); lvl=6; h,r-ind=1,1
          [3,3]((14,75,175),(9,48,112),(6,32,75)); lvl=6; h,r-ind=1,1
          [3,3]((3,16,37),(4,21,49),(9,48,112)); lvl=6; h,r-ind=1,1
          [3,3]((14,75,175),(3,16,37),(9,48,112)); lvl=6; h,r-ind=1,1
        [4,3]((2,11,25),(3,16,37),(5,27,63),(14,75,175)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((8,43,100),(14,75,175),(3,16,37)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,25),(8,43,100),(3,16,37)); lvl=6; h,r-ind=1,1
          [3,3]((8,43,100),(5,27,63),(14,75,175)); lvl=6; h,r-ind=1,1
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            [3,3]((2,11,25),(8,43,100),(5,27,63)); lvl=6; h,r-ind=1,1
        [4,3]((3,16,38),(1,5,12),(6,32,75),(4,21,49)); lvl=4; h,r-ind=1,1
          [3,3]((7,37,87),(4,21,49),(1,5,12)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,38),(7,37,87),(1,5,12)); lvl=5; h,r-ind=1,1
          [3,3]((6,32,75),(7,37,87),(4,21,49)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,38),(6,32,75),(7,37,87)); lvl=5; h,r-ind=1,1
        [3,3]((3,16,38),(1,5,12),(3,16,39)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,26),(3,16,38),(3,16,39)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,26),(2,11,25),(5,27,63)); lvl=4; h,r-ind=1,1
        [4,3]((2,11,26),(3,16,38),(5,27,63),(6,32,75)); lvl=4; h,r-ind=1,1
          [3,3]((8,43,101),(6,32,75),(3,16,38)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,26),(8,43,101),(3,16,38)); lvl=5; h,r-ind=1,1
          [3,3]((5,27,63),(8,43,101),(6,32,75)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,26),(5,27,63),(8,43,101)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,22),(2,9,21),(2,10,23),(1,5,12)); lvl=3; h,r-ind=1,1
        [3,3]((2,9,21),(3,14,33),(2,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,12),(3,14,33),(2,10,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,12),(2,9,22),(3,14,33)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,22),(2,9,21),(3,14,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,13),(2,9,22),(1,5,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,12),(2,11,24),(1,6,13),(1,7,14)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,24),(2,12,25),(1,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,14),(2,12,25),(1,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(1,7,14),(2,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(2,11,24),(2,12,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(2,14,27),(1,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,11),(1,6,12),(2,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,11),(1,6,12),(2,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,11),(2,10,21),(2,9,20)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,12),(2,14,27),(2,10,21),(1,5,10)); lvl=2; h,r-ind=2,1
      [4,3]((2,12,23),(1,5,10),(1,6,12),(2,10,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,22),(2,10,21),(1,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,23),(2,11,22),(1,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,22),(1,6,12),(2,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,23),(2,11,22),(1,6,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(2,12,23),(1,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,13),(2,12,23),(1,6,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,12),(1,6,11),(1,7,13),(2,12,23)); lvl=3; h,r-ind=1,1
        [3,3]((2,13,24),(1,6,11),(2,12,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,13),(2,13,24),(2,12,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,12),(2,13,24),(1,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,13),(1,7,12),(2,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,13),(1,6,12),(2,14,27)); lvl=3; h,r-ind=1,1
    [5,3]((1,6,10),(1,7,12),(2,9,18),(1,5,9),(1,5,10)); lvl=2; h,r-ind=1,1
      [4,3]((2,11,20),(2,10,19),(1,6,11),(1,5,10)); lvl=3; h,r-ind=1,1
        [3,3]((3,16,30),(1,5,10),(2,10,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,20),(3,16,30),(2,10,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(2,11,20),(3,16,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(3,16,30),(1,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,19),(2,9,18),(1,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,9),(2,10,19),(2,9,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,9),(4,22,39),(2,11,20),(2,10,19)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,22,39),(3,16,29),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,19),(3,16,29),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(2,10,19),(3,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(4,22,39),(3,16,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(1,5,9),(4,22,39)); lvl=3; h,r-ind=1,1
      [5,3]((1,7,12),(1,6,10),(4,22,39),(2,11,20),(1,6,11)); lvl=3; h,r-ind=1,1
        [4,3]((4,23,41),(5,29,51),(3,17,30),(2,11,20)); lvl=4; h,r-ind=1,1
          [3,3]((7,40,71),(3,17,30),(5,29,51)); lvl=5; h,r-ind=1,1
          [3,3]((4,23,41),(7,40,71),(5,29,51)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,20),(4,23,41),(7,40,71)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,20),(7,40,71),(3,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((4,22,39),(3,17,30),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(4,22,39),(3,17,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(4,23,41),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(5,29,51),(3,17,30)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,11),(4,23,41),(5,29,51),(2,12,21)); lvl=4; h,r-ind=1,1
          [3,3]((4,23,41),(5,29,51),(6,35,62)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,21),(5,29,51),(6,35,62)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(2,12,21),(6,35,62)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(4,23,41),(6,35,62)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,12),(1,6,11),(2,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(1,7,12),(2,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(5,29,51),(2,12,21)); lvl=4; h,r-ind=1,1
    [3,3]((2,14,23),(1,6,10),(1,7,12)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,14,23),(1,7,16)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((1,7,23),(0,1,0),(1,7,16)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,0,0),(1,2,6),(1,2,4)); lvl=1; h,r-ind=4,2; optimized-h
  [4,3]((0,1,0),(2,14,23),(1,0,0),(1,2,4)); lvl=1; h,r-ind=1,1
```

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[5,3]((1,7,11),(1,6,8),(2,10,17),(1,5,7),(1,6,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,7),(1,6,8),(1,6,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,11),(1,6,8),(1,6,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,7),(1,5,8),(1,6,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,8),(2,12,19),(1,6,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,11),(2,12,19),(1,6,9)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,10),(1,5,8),(2,12,19),(2,10,17)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((2,12,19),(2,11,18),(1,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,17),(2,11,18),(1,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(2,12,19),(2,11,18)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,17),(1,6,10),(2,11,18)); lvl=4; h,r-ind=1,1
  [3,3]((1,7,11),(1,6,10),(2,12,19)); lvl=3; h,r-ind=1,1
[3,3]((1,7,11),(2,14,23),(1,6,10)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,7,11),(2,14,23)); lvl=2; h,r-ind=1,1
[5,3]((1,1,2),(1,2,4),(2,10,17),(1,5,7),(1,4,5)); lvl=2; h,r-ind=3,1; alert-h-inc
  [4,3]((1,4,7),(3,11,18),(1,2,4),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,18),(2,7,12),(1,3,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(2,7,12),(1,3,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(1,2,4),(2,7,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(3,11,18),(2,7,12)); lvl=4; h,r-ind=1,1
  [3,3]((1,1,2),(1,2,4),(1,3,5)); lvl=3; h,r-ind=1,1
  [4,3]((2,7,11),(4,15,24),(3,11,18),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,18),(4,15,24),(5,18,29)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,11),(4,15,24),(5,18,29)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(2,7,11),(5,18,29)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(3,11,18),(5,18,29)); lvl=4; h,r-ind=1,1
  [4,3]((1,1,2),(2,5,7),(2,7,11),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(2,6,9)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(5,14,22),(3,9,14),(2,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((5,14,22),(4,11,17),(3,9,14)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,9),(4,11,17),(3,9,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(2,6,9),(4,11,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(5,14,22),(4,11,17)); lvl=5; h,r-ind=1,1
    [3,3]((3,9,14),(2,7,11),(2,6,9)); lvl=4; h,r-ind=1,1
    [4,3]((5,14,22),(3,9,14),(1,3,5),(2,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,12,19),(3,9,14),(2,7,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(4,12,19),(2,7,11)); lvl=5; h,r-ind=1,1
      [3,3]((5,14,22),(4,12,19),(3,9,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(5,14,22),(4,12,19)); lvl=5; h,r-ind=1,1
    [4,3]((1,1,2),(1,2,3),(5,14,22),(1,3,5)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((2,5,8),(1,2,3),(5,14,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,8),(5,14,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,2),(2,5,8),(1,2,3)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(1,1,2),(2,5,8)); lvl=5; h,r-ind=1,1
  [4,3]((2,5,7),(2,7,11),(1,4,6),(1,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((3,10,15),(5,17,25),(1,4,6),(2,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(4,14,21),(5,17,25)); lvl=5; h,r-ind=1,1
      [3,3]((3,10,15),(4,14,21),(5,17,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,11),(3,10,15),(4,14,21)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,11),(1,4,6),(4,14,21)); lvl=5; h,r-ind=1,1
    [3,3]((2,6,9),(3,10,15),(2,7,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,4),(5,17,25),(1,4,5),(1,4,6)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((1,4,5),(2,7,10),(1,4,6)); lvl=5; h,r-ind=1,1
      [3,3]((5,17,25),(2,7,10),(1,4,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(5,17,25),(2,7,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,5),(2,7,10)); lvl=5; h,r-ind=1,1
    [4,3]((2,6,9),(1,3,4),(3,10,15),(5,17,25)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,19),(1,3,4),(5,17,25)); lvl=5; h,r-ind=1,1
      [3,3]((4,13,19),(3,10,15),(5,17,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,9),(4,13,19),(3,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,9),(4,13,19),(1,3,4)); lvl=5; h,r-ind=1,1
    [3,3]((2,6,9),(2,5,7),(1,3,4)); lvl=4; h,r-ind=1,1
  [5,3]((3,12,19),(4,15,24),(1,5,8),(1,4,7),(3,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(2,8,13),(3,11,18)); lvl=4; h,r-ind=1,1
    [3,3]((4,15,24),(2,8,13),(3,11,18)); lvl=4; h,r-ind=1,1
    [3,3]((3,12,19),(4,15,24),(2,8,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(2,8,13),(1,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((3,12,19),(2,8,13),(1,5,8)); lvl=4; h,r-ind=1,1
  [4,3]((2,7,11),(1,4,6),(3,12,19),(4,15,24)); lvl=3; h,r-ind=1,1
    [3,3]((5,19,30),(3,12,19),(1,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,11),(5,19,30),(1,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((4,15,24),(5,19,30),(3,12,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,11),(4,15,24),(5,19,30)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,6),(3,12,19),(1,5,8),(1,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(2,9,14),(3,12,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(2,9,14),(3,12,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(1,4,6),(2,9,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(1,5,8),(2,9,14)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,6),(1,4,5),(1,5,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,8),(2,10,17),(1,4,7)); lvl=3; h,r-ind=1,1
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    [4,3]((1,5,5),(1,0,0),(1,1,2),(1,4,5)); lvl=2; h,r-ind=1,1
      [4,3]((1,0,0),(2,5,5),(1,1,2),(2,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,2),(2,5,5),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,2,3),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,5,7),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,3),(1,2,3)); lvl=4; h,r-ind=1,1
        [4,3]((1,0,0),(2,3,3),(1,2,3),(1,1,2)); lvl=4; h,r-ind=1,1
          [3,3]((1,2,3),(2,3,3),(1,1,1)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,6),(1,2,3),(1,1,1)); lvl=5; h,r-ind=1,1
          [4,3]((1,0,0),(1,1,2),(3,4,6),(1,1,1)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,2,3),(1,1,2),(3,4,6)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,1),(2,2,3),(3,4,6)); lvl=6; h,r-ind=1,1
            [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,1),(1,0,0),(2,2,3)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,2),(3,4,6),(1,2,3)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,5),(1,4,5),(2,5,5),(2,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,3),(2,5,5),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,3,4),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,7),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,7),(1,3,4)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,5),(2,7,7),(1,3,4),(1,4,5)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,4),(2,7,7),(1,4,4)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,13),(1,3,4),(1,4,4)); lvl=5; h,r-ind=1,1
          [4,3]((1,5,5),(1,4,5),(3,11,13),(1,4,4)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,8,9),(3,11,13),(1,4,5)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,5),(2,8,9),(1,4,5)); lvl=6; h,r-ind=1,1
            [3,3]((2,8,9),(1,4,4),(3,11,13)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,5),(2,8,9),(1,4,4)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(3,11,13),(1,3,4)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,0,0)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((1,5,5),(1,6,6),(1,6,8),(1,5,7),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,6),(1,6,7),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,5,6),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,5,6),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,6,8),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,6,8),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,5),(1,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,7,11),(1,6,6),(1,6,8)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,7),(1,7,10),(2,14,17),(1,6,8)); lvl=3; h,r-ind=1,1
        [4,3]((1,6,8),(3,19,24),(1,7,9),(1,7,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,13,17),(1,7,9),(3,19,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,8),(2,13,17),(3,19,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,10),(2,13,17),(1,7,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,8),(1,7,10),(2,13,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(1,6,8),(3,19,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(3,19,24),(1,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(2,14,17),(1,7,9)); lvl=4; h,r-ind=1,1
      [4,3]((0,1,0),(1,6,6),(1,6,7),(2,14,17)); lvl=3; h,r-ind=1,1
        [3,3]((2,13,14),(1,6,6),(1,6,7)); lvl=4; h,r-ind=1,1
        [4,3]((2,13,14),(2,14,15),(1,7,8),(1,6,7)); lvl=4; h,r-ind=1,1
          [3,3]((1,7,8),(2,14,15),(3,20,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,14),(2,14,15),(3,20,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(2,13,14),(3,20,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(1,7,8),(3,20,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(2,14,17),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,7,8),(2,14,17)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,14,15),(1,7,8)); lvl=4; h,r-ind=1,1
        [4,3]((0,1,0),(2,13,14),(2,14,15),(1,6,6)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,7,7),(2,14,15),(2,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,6),(1,7,7),(2,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(1,6,6),(1,7,7)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(1,7,7),(2,14,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,11),(1,7,10),(1,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,10),(2,14,17)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,7,11),(0,1,0),(1,7,10)); lvl=3; h,r-ind=1,1
```

23.20 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,8,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,0,0),(1,4,11),(1,7,20)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((1,7,14),(2,15,30),(2,15,42),(1,4,11),(1,7,20)); lvl=1; h,r-ind=3,1
    [4,3]((1,7,19),(1,7,20),(2,11,31),(1,6,16)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,16),(1,6,17),(2,11,31)); lvl=3; h,r-ind=1,1
      [3,3]((3,19,52),(1,6,16),(1,6,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,19),(3,19,52),(1,7,20),(1,6,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,19,52),(2,13,36),(1,6,17)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,7,20),(2,13,36),(1,6,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,19),(1,7,20),(2,13,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,19),(3,19,52),(2,13,36)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,19),(3,19,52),(1,6,16)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,11),(1,6,15),(2,11,31),(1,6,16)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,15),(2,11,29),(1,6,16),(4,22,59)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,45),(2,11,29),(4,22,59)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,16),(3,17,45),(4,22,59)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,15),(3,17,45),(2,11,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,16),(1,6,15),(3,17,45)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,14),(2,11,31),(1,6,16),(4,22,59)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,11,30),(1,6,16),(2,11,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,14),(2,11,30),(2,11,31)); lvl=4; h,r-ind=1,1
      [3,3]((4,22,59),(2,11,30),(1,6,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,14),(4,22,59),(2,11,30)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,13),(1,5,14),(2,11,29),(4,22,59)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,29),(4,22,59),(3,16,43)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,14),(4,22,59),(3,16,43)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,13),(2,11,29),(3,16,43)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,14),(1,5,13),(3,16,43)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,11),(1,5,13),(1,5,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,13),(1,6,15),(2,11,29)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,11),(2,11,25),(1,6,14),(1,6,15)); lvl=2; h,r-ind=1,1
    [4,3]((4,22,53),(2,11,25),(1,5,12),(1,6,14)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((1,5,12),(2,11,25),(2,11,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,14),(2,11,25),(2,11,26)); lvl=4; h,r-ind=1,1
      [3,3]((4,22,53),(1,5,12),(2,11,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,14),(4,22,53),(2,11,26)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,15),(2,11,27),(4,22,53),(1,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,27),(4,22,53),(3,17,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,14),(4,22,53),(3,17,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,15),(2,11,27),(3,17,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,14),(1,6,15),(3,17,41)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,27),(4,22,53),(1,5,13),(1,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,39),(1,5,12),(1,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,27),(3,16,39),(1,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,27),(4,22,53),(3,16,39)); lvl=4; h,r-ind=1,1
      [3,3]((4,22,53),(3,16,39),(1,5,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,11),(1,5,13),(1,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,15),(2,11,27),(1,5,13)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,15),(1,7,17),(1,7,19),(1,6,16)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,16),(3,19,49),(1,7,18),(1,7,19)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,19,49),(1,7,18),(2,13,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,19),(1,7,18),(2,13,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,16),(3,19,49),(2,13,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,19),(1,6,16),(2,13,34)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,15),(1,6,16),(3,19,49)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,15),(3,19,49),(1,7,17),(1,7,18)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,13,33),(1,7,17),(1,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,49),(2,13,33),(1,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,15),(3,19,49),(2,13,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,15),(2,13,33),(1,7,17)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,15),(1,6,14),(1,6,15),(1,7,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,14),(1,6,15),(3,19,45)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,17),(1,7,16),(1,6,15),(3,19,45)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,7,16),(3,19,45),(2,13,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,15),(3,19,45),(2,13,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,17),(1,7,16),(2,13,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,15),(1,7,17),(2,13,31)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,15),(1,7,16),(1,6,14),(3,19,45)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,7,16),(3,19,45),(2,13,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,14),(3,19,45),(2,13,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,15),(1,7,16),(2,13,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,14),(1,7,15),(2,13,30)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,14),(2,11,25),(1,7,15),(1,6,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,13),(1,6,14),(3,19,42)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,15),(1,6,14),(3,19,42)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,15),(1,7,14),(1,6,13),(3,19,42)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,13,28),(1,7,14),(1,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,42),(2,13,28),(1,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,15),(3,19,42),(2,13,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,15),(2,13,28),(1,7,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,13),(2,11,25),(1,6,14)); lvl=3; h,r-ind=1,1
  [3,3]((2,15,30),(1,7,14),(1,7,15)); lvl=2; h,r-ind=1,1
  [4,3]((1,7,17),(2,15,42),(1,7,19),(2,15,36)); lvl=2; h,r-ind=2,1
    [4,3]((1,7,19),(1,7,18),(2,15,42),(2,15,39)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,18),(5,36,96),(2,15,39),(4,30,81)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,22,59),(2,15,40),(4,30,81)); lvl=5; h,r-ind=1,1
        [3,3]((3,22,59),(7,51,135),(2,15,40)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,7,18),(5,36,96),(3,22,59),(7,51,135)); lvl=5; h,r-ind=1,3
```

```
          [3,3]((4,29,77),(5,36,96),(3,22,59)); lvl=6; h,r-ind=1,1
          [3,3]((7,51,135),(4,29,77),(3,22,59)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,18),(7,51,135),(4,29,77)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,18),(4,29,77),(5,36,96)); lvl=6; h,r-ind=1,1
        [4,3]((1,7,18),(7,51,135),(2,15,40),(2,15,39)); lvl=5; h,r-ind=1,3
          [3,3]((7,51,135),(3,22,58),(2,15,40)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,39),(3,22,58),(2,15,40)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,18),(2,15,39),(3,22,58)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,18),(7,51,135),(3,22,58)); lvl=6; h,r-ind=1,1
      [4,3]((1,7,19),(5,36,96),(2,15,42),(4,30,81)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,7,19),(7,51,138),(2,15,41),(2,15,42)); lvl=5; h,r-ind=1,3
          [3,3]((3,22,60),(7,51,138),(2,15,41)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,42),(3,22,60),(2,15,41)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,19),(2,15,42),(3,22,60)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,19),(3,22,60),(7,51,138)); lvl=6; h,r-ind=1,1
        [3,3]((7,51,138),(3,22,59),(2,15,41)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,22,59),(4,30,81),(2,15,41)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,19),(7,51,138),(3,22,59),(5,36,96)); lvl=5; h,r-ind=1,3
          [3,3]((4,29,78),(3,22,59),(7,51,138)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,19),(4,29,78),(7,51,138)); lvl=6; h,r-ind=1,1
          [3,3]((5,36,96),(4,29,78),(3,22,59)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,19),(5,36,96),(4,29,78)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,19),(1,7,18),(5,36,96)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,17),(2,15,36),(1,7,18),(2,15,39)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,18),(5,36,90),(2,15,39),(4,30,75)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,22,55),(7,51,129),(2,15,38)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,7,18),(2,15,39),(7,51,129),(2,15,38)); lvl=5; h,r-ind=1,3
          [3,3]((3,22,56),(2,15,38),(2,15,39)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,18),(3,22,56),(2,15,39)); lvl=6; h,r-ind=1,1
          [3,3]((7,51,129),(3,22,56),(2,15,38)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,18),(7,51,129),(3,22,56)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,55),(4,30,75),(2,15,38)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,18),(5,36,90),(3,22,55),(7,51,129)); lvl=5; h,r-ind=1,3
          [3,3]((4,29,73),(3,22,55),(5,36,90)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,18),(4,29,73),(5,36,90)); lvl=6; h,r-ind=1,1
          [3,3]((7,51,129),(4,29,73),(3,22,55)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,18),(7,51,129),(4,29,73)); lvl=6; h,r-ind=1,1
      [4,3]((1,7,17),(5,36,90),(2,15,36),(4,30,75)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,7,17),(7,51,126),(2,15,37),(2,15,36)); lvl=5; h,r-ind=1,3
          [3,3]((7,51,126),(3,22,54),(2,15,37)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,36),(3,22,54),(2,15,37)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,17),(2,15,36),(3,22,54)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,17),(7,51,126),(3,22,54)); lvl=6; h,r-ind=1,1
        [3,3]((7,51,126),(3,22,55),(2,15,37)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,22,55),(4,30,75),(2,15,37)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,17),(7,51,126),(3,22,55),(5,36,90)); lvl=5; h,r-ind=1,3
          [3,3]((7,51,126),(4,29,72),(3,22,55)); lvl=6; h,r-ind=1,1
          [3,3]((5,36,90),(4,29,72),(3,22,55)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,17),(5,36,90),(4,29,72)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,17),(7,51,126),(4,29,72)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,17),(1,7,18),(5,36,90)); lvl=4; h,r-ind=1,1
[4,3]((2,15,30),(1,7,15),(1,7,17),(2,15,36)); lvl=2; h,r-ind=2,1
  [4,3]((2,15,36),(2,15,33),(1,7,17),(1,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,17),(1,7,16),(5,36,84)); lvl=4; h,r-ind=1,1
    [4,3]((2,15,33),(4,30,69),(1,7,16),(5,36,84)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((7,51,117),(1,7,16),(5,36,84),(3,22,51)); lvl=5; h,r-ind=1,3
        [3,3]((4,29,67),(1,7,16),(5,36,84)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,51),(4,29,67),(5,36,84)); lvl=6; h,r-ind=1,1
        [3,3]((7,51,117),(4,29,67),(1,7,16)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,51),(7,51,117),(4,29,67)); lvl=6; h,r-ind=1,1
      [3,3]((2,15,34),(7,51,117),(3,22,51)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,15,34),(4,30,69),(3,22,51)); lvl=5; h,r-ind=1,1
      [4,3]((2,15,34),(2,15,33),(7,51,117),(1,7,16)); lvl=5; h,r-ind=1,3
        [3,3]((3,22,50),(2,15,33),(1,7,16)); lvl=6; h,r-ind=1,1
        [3,3]((7,51,117),(3,22,50),(1,7,16)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,34),(7,51,117),(3,22,50)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,34),(3,22,50),(2,15,33)); lvl=6; h,r-ind=1,1
    [4,3]((2,15,36),(4,30,69),(1,7,17),(5,36,84)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,7,17),(7,51,120),(3,22,51),(5,36,84)); lvl=5; h,r-ind=1,3
        [3,3]((3,22,51),(4,29,68),(7,51,120)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,17),(4,29,68),(7,51,120)); lvl=6; h,r-ind=1,1
        [3,3]((5,36,84),(3,22,51),(4,29,68)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,17),(5,36,84),(4,29,68)); lvl=6; h,r-ind=1,1
      [3,3]((2,15,35),(7,51,120),(3,22,51)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,7,17),(2,15,36),(2,15,35),(7,51,120)); lvl=5; h,r-ind=1,3
        [3,3]((3,22,52),(2,15,35),(2,15,36)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,17),(3,22,52),(2,15,36)); lvl=6; h,r-ind=1,1
        [3,3]((7,51,120),(3,22,52),(2,15,35)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,17),(7,51,120),(3,22,52)); lvl=6; h,r-ind=1,1
      [3,3]((2,15,35),(3,22,51),(4,30,69)); lvl=5; h,r-ind=1,1
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    [4,3]((2,15,30),(2,15,33),(1,7,15),(1,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,15),(1,7,16),(5,36,78)); lvl=4; h,r-ind=1,1
      [4,3]((2,15,33),(4,30,63),(1,7,16),(5,36,78)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((7,51,111),(1,7,16),(5,36,78),(3,22,47)); lvl=5; h,r-ind=1,3
          [3,3]((4,29,63),(5,36,78),(1,7,16)); lvl=6; h,r-ind=1,1
          [3,3]((7,51,111),(4,29,63),(1,7,16)); lvl=6; h,r-ind=1,1
          [3,3]((3,22,47),(7,51,111),(4,29,63)); lvl=6; h,r-ind=1,1
          [3,3]((3,22,47),(4,29,63),(5,36,78)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,32),(7,51,111),(3,22,47)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,15,32),(4,30,63),(3,22,47)); lvl=5; h,r-ind=1,1
        [4,3]((2,15,32),(2,15,33),(7,51,111),(1,7,16)); lvl=5; h,r-ind=1,3
          [3,3]((2,15,33),(3,22,48),(1,7,16)); lvl=6; h,r-ind=1,1
          [3,3]((7,51,111),(3,22,48),(1,7,16)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,32),(7,51,111),(3,22,48)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,32),(2,15,33),(3,22,48)); lvl=6; h,r-ind=1,1
      [4,3]((2,15,30),(4,30,63),(1,7,15),(5,36,78)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,7,15),(7,51,108),(3,22,47),(5,36,78)); lvl=5; h,r-ind=1,3
          [3,3]((3,22,47),(4,29,62),(7,51,108)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,15),(4,29,62),(7,51,108)); lvl=6; h,r-ind=1,1
          [3,3]((5,36,78),(3,22,47),(4,29,62)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,15),(5,36,78),(4,29,62)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,31),(7,51,108),(3,22,47)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,7,15),(2,15,30),(2,15,31),(7,51,108)); lvl=5; h,r-ind=1,3
          [3,3]((3,22,46),(2,15,31),(2,15,30)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,15),(3,22,46),(2,15,30)); lvl=6; h,r-ind=1,1
          [3,3]((7,51,108),(3,22,46),(2,15,31)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,15),(7,51,108),(3,22,46)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,31),(3,22,47),(4,30,63)); lvl=5; h,r-ind=1,1
  [3,3]((2,15,42),(1,7,19),(1,7,20)); lvl=2; h,r-ind=1,1
[3,3]((1,8,23),(2,15,42),(1,7,20)); lvl=1; h,r-ind=1,1
[4,3]((1,8,23),(1,8,15),(2,15,30),(2,15,42)); lvl=1; h,r-ind=4,1
  [4,3]((1,8,19),(2,15,36),(1,8,15),(2,15,30)); lvl=2; h,r-ind=2,1
    [4,3]((1,8,17),(1,8,15),(2,15,33),(2,15,30)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,16),(1,8,15),(4,30,63),(2,15,30)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,15),(2,15,31),(2,15,30),(4,31,62)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,23,46),(2,15,30),(2,15,31)); lvl=6; h,r-ind=1,1
          [3,3]((4,31,62),(3,23,46),(2,15,31)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,15),(4,31,62),(3,23,46)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,15),(3,23,46),(2,15,30)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,16),(1,8,15),(4,31,62)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,16),(2,15,31),(4,31,62)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,16),(2,15,31),(4,30,63)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,17),(1,8,16),(2,15,33),(4,30,63)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,16),(4,30,63),(2,15,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,16),(4,31,65),(2,15,32)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,17),(4,31,65),(2,15,33),(2,15,32)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,15,33),(3,23,49),(2,15,32)); lvl=6; h,r-ind=1,1
          [3,3]((4,31,65),(3,23,49),(2,15,32)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,17),(2,15,33),(3,23,49)); lvl=6; h,r-ind=1,1
          [3,3]((4,31,65),(1,8,17),(3,23,49)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,17),(1,8,16),(4,31,65)); lvl=5; h,r-ind=1,1
    [4,3]((1,8,19),(1,8,17),(2,15,36),(2,15,33)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,18),(1,8,17),(4,30,69),(2,15,33)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,17),(2,15,34),(2,15,33),(4,31,69)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,15,33),(3,23,51),(2,15,34)); lvl=6; h,r-ind=1,1
          [3,3]((4,31,69),(3,23,51),(2,15,34)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,17),(4,31,69),(3,23,51)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,17),(2,15,33),(3,23,51)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,18),(1,8,17),(4,31,69)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,18),(2,15,34),(4,31,69)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,18),(2,15,34),(4,30,69)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,19),(1,8,18),(2,15,36),(4,30,69)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,18),(2,15,35),(4,30,69)); lvl=5; h,r-ind=1,1
        [3,3]((4,31,72),(1,8,18),(2,15,35)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,19),(4,31,72),(2,15,36),(2,15,35)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,23,54),(2,15,36),(2,15,35)); lvl=6; h,r-ind=1,1
          [3,3]((4,31,72),(3,23,54),(2,15,35)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,19),(4,31,72),(3,23,54)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,19),(3,23,54),(2,15,36)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,19),(4,31,72),(1,8,18)); lvl=5; h,r-ind=1,1
  [4,3]((1,8,23),(1,8,19),(2,15,42),(2,15,36)); lvl=2; h,r-ind=2,1
    [4,3]((1,8,21),(1,8,19),(2,15,39),(2,15,36)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,20),(1,8,19),(4,30,75),(2,15,36)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,19),(2,15,37),(2,15,36),(4,31,76)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,23,56),(2,15,36),(2,15,37)); lvl=6; h,r-ind=1,1
          [3,3]((4,31,76),(3,23,56),(2,15,37)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,19),(4,31,76),(3,23,56)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,19),(3,23,56),(2,15,36)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,20),(1,8,19),(4,31,76)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,20),(2,15,37),(4,31,76)); lvl=5; h,r-ind=1,1
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          [3,3]((1,8,20),(2,15,37),(4,30,75)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,21),(1,8,20),(2,15,39),(4,30,75)); lvl=4; h,r-ind=1,1
          [3,3]((1,8,20),(2,15,38),(4,30,75)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,20),(4,31,79),(2,15,38)); lvl=5; h,r-ind=1,1
          [4,3]((1,8,21),(4,31,79),(2,15,39),(2,15,38)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,23,59),(2,15,39),(2,15,38)); lvl=6; h,r-ind=1,1
            [3,3]((4,31,79),(3,23,59),(2,15,38)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,21),(4,31,79),(3,23,59)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,21),(3,23,59),(2,15,39)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,21),(1,8,20),(4,31,79)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,23),(1,8,21),(2,15,42),(2,15,39)); lvl=3; h,r-ind=1,1
        [4,3]((1,8,22),(1,8,21),(4,30,81),(2,15,39)); lvl=4; h,r-ind=1,1
          [4,3]((4,31,83),(1,8,21),(2,15,40),(2,15,39)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,15,40),(3,23,61),(2,15,39)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,21),(3,23,61),(2,15,39)); lvl=6; h,r-ind=1,1
            [3,3]((4,31,83),(1,8,21),(3,23,61)); lvl=6; h,r-ind=1,1
            [3,3]((4,31,83),(2,15,40),(3,23,61)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,22),(4,31,83),(1,8,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,22),(4,31,83),(2,15,40)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,22),(2,15,40),(4,30,81)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,23),(1,8,22),(2,15,42),(4,30,81)); lvl=4; h,r-ind=1,1
          [3,3]((1,8,22),(2,15,41),(4,30,81)); lvl=5; h,r-ind=1,1
          [3,3]((4,31,86),(1,8,22),(2,15,41)); lvl=5; h,r-ind=1,1
          [4,3]((1,8,23),(4,31,86),(2,15,42),(2,15,41)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,23,64),(2,15,42),(2,15,41)); lvl=6; h,r-ind=1,1
            [3,3]((4,31,86),(3,23,64),(2,15,41)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,23),(4,31,86),(3,23,64)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,23),(3,23,64),(2,15,42)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,23),(4,31,86),(1,8,22)); lvl=5; h,r-ind=1,1
[3,3]((1,8,23),(1,0,0),(1,7,20)); lvl=1; h,r-ind=1,1
[4,3]((2,14,21),(1,7,14),(1,0,0),(1,4,11)); lvl=1; h,r-ind=7,7
  [5,3]((1,4,8),(2,7,14),(1,4,11),(2,11,25),(2,7,18)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,18),(2,7,16),(2,8,19),(1,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,16),(4,15,36),(2,8,19)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,4,10),(4,15,36),(2,8,19)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,17),(2,7,18),(1,4,10),(4,15,36)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,27),(2,7,18),(1,4,10)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,36),(3,11,27),(1,4,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,17),(4,15,36),(3,11,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,17),(3,11,27),(2,7,18)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,17),(2,7,16),(4,15,36)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((4,17,40),(3,13,31),(2,8,19),(1,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,21,50),(1,4,10),(2,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,40),(5,21,50),(2,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,31),(4,17,40),(5,21,50)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,31),(5,21,50),(1,4,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,11),(2,7,18),(1,4,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,12),(3,13,31),(1,4,11),(1,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,22),(1,4,10),(1,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(2,9,22),(1,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,22),(3,13,31),(1,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(2,9,22),(3,13,31)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,9),(2,7,14),(2,7,16),(2,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,15),(2,7,16),(4,15,34)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,8,19),(2,7,16),(4,15,34)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,4,9),(2,8,19),(4,15,34)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,9),(2,7,15),(2,7,14),(4,15,34)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,24),(2,7,15),(2,7,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,9),(3,11,24),(2,7,14)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,34),(3,11,24),(2,7,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,9),(4,15,34),(3,11,24)); lvl=5; h,r-ind=1,1
    [4,3]((1,4,9),(3,13,30),(4,17,40),(2,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,30),(4,17,40),(5,21,49)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,19),(4,17,40),(5,21,49)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(3,13,30),(5,21,49)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,19),(1,4,9),(5,21,49)); lvl=4; h,r-ind=1,1
    [5,3]((1,5,11),(1,5,12),(3,13,30),(4,17,40),(3,13,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,21),(4,17,40),(3,13,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(2,9,21),(3,13,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,21),(3,13,31),(4,17,40)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(2,9,21),(3,13,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(1,5,12),(2,9,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,11),(1,5,12),(2,11,25)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,8),(1,5,11),(1,4,9),(3,13,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,30),(1,5,11),(2,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,11),(2,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(3,13,30),(2,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(1,4,8),(2,9,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(1,4,9),(2,7,14)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,8),(1,4,11),(2,7,18)); lvl=2; h,r-ind=1,1
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[3,3]((1,0,0),(1,3,8),(1,4,11)); lvl=2; h,r-ind=1,1
[5,3]((2,7,14),(1,3,6),(1,3,8),(1,2,5),(2,7,18)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,5),(1,3,7),(1,3,8)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,18),(1,3,7),(1,3,8)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,18),(2,7,16),(1,3,7)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,7,14),(2,7,16),(1,3,7)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,3,6),(1,2,5),(1,3,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,6),(2,7,14),(1,3,7)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(1,3,8),(1,2,5)); lvl=2; h,r-ind=1,1
[3,3]((1,3,6),(1,0,0),(1,2,5)); lvl=2; h,r-ind=3,3; optimized-h
[5,3]((1,4,7),(1,4,6),(1,3,6),(3,11,21),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,5),(1,4,6),(1,2,3)); lvl=3; h,r-ind=1,1
  [5,3]((1,3,5),(1,0,0),(2,3,6),(2,5,9),(1,2,3)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,6),(4,9,16),(2,5,9)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,6),(3,6,11),(2,5,9)); lvl=5; h,r-ind=1,1
      [3,3]((4,9,16),(3,6,11),(2,5,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,2),(4,9,16),(3,6,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(3,6,11)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,5),(4,9,16),(2,5,9)); lvl=4; h,r-ind=1,1
    [4,3]((3,6,10),(1,3,5),(1,1,2),(4,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(1,3,5),(4,9,16)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,7),(1,1,2),(4,9,16)); lvl=5; h,r-ind=1,1
      [3,3]((3,6,10),(2,4,7),(1,1,2)); lvl=5; h,r-ind=1,1
      [3,3]((3,6,10),(2,4,7),(1,3,5)); lvl=5; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,3),(3,6,10),(1,1,2)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,5),(1,2,3),(3,6,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,5),(3,6,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,0,0),(2,3,5),(1,2,3)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,2),(1,0,0),(2,3,5)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,3),(3,6,10),(1,3,5)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,6),(2,5,9),(1,3,6),(2,6,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(1,3,6),(5,13,24),(2,6,11)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,15),(1,3,6),(2,6,11)); lvl=5; h,r-ind=1,1
      [3,3]((5,13,24),(3,8,15),(2,6,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,4),(5,13,24),(3,8,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,4),(3,8,15),(1,3,6)); lvl=5; h,r-ind=1,1
    [3,3]((2,5,9),(5,13,24),(2,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,9),(1,2,4),(5,13,24)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,9),(1,2,4),(2,3,6)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,5),(2,7,12),(1,4,6)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,7),(2,7,12),(1,4,6)); lvl=3; h,r-ind=1,1
  [5,3]((1,3,5),(2,5,9),(2,6,11),(3,10,18),(2,7,12)); lvl=3; h,r-ind=1,1
    [5,3]((2,7,12),(5,16,28),(6,19,34),(7,22,39),(3,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,23),(7,22,39),(5,16,28)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,12),(4,13,23),(5,16,28)); lvl=5; h,r-ind=1,1
      [3,3]((4,13,23),(7,22,39),(6,19,34)); lvl=5; h,r-ind=1,1
      [3,3]((4,13,23),(3,10,18),(6,19,34)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,12),(4,13,23),(3,10,18)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,5),(2,7,12),(5,16,28)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,11),(6,19,34),(3,10,18)); lvl=4; h,r-ind=1,1
    [4,3]((2,6,11),(3,9,16),(6,19,34),(7,22,39)); lvl=4; h,r-ind=1,1
      [3,3]((9,28,50),(7,22,39),(3,9,16)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,11),(9,28,50),(3,9,16)); lvl=5; h,r-ind=1,1
      [3,3]((6,19,34),(9,28,50),(7,22,39)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,11),(6,19,34),(9,28,50)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,5),(5,16,28),(3,9,16),(7,22,39)); lvl=4; h,r-ind=1,1
      [3,3]((5,16,28),(7,22,39),(8,25,44)); lvl=5; h,r-ind=1,1
      [3,3]((3,9,16),(7,22,39),(8,25,44)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(5,16,28),(8,25,44)); lvl=5; h,r-ind=1,1
      [3,3]((3,9,16),(1,3,5),(8,25,44)); lvl=5; h,r-ind=1,1
    [3,3]((2,5,9),(1,3,5),(3,9,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,9),(2,6,11),(3,9,16)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,7),(3,10,18),(2,7,12),(2,7,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,12),(3,10,18),(4,14,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,13),(3,10,18),(4,14,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(2,7,12),(4,14,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,13),(1,4,7),(4,14,25)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,7),(3,11,21),(2,7,13)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,6),(2,6,11),(3,10,18),(2,7,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,11),(3,10,18),(4,13,24)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,13),(3,10,18),(4,13,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(2,6,11),(4,13,24)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,13),(1,3,6),(4,13,24)); lvl=4; h,r-ind=1,1
  [3,3]((3,11,21),(1,3,6),(2,7,13)); lvl=3; h,r-ind=1,1
[4,3]((3,12,23),(1,4,8),(2,7,14),(4,15,29)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,8),(2,7,14),(5,19,37)); lvl=3; h,r-ind=1,1
  [3,3]((4,15,29),(2,7,14),(5,19,37)); lvl=3; h,r-ind=1,1
  [3,3]((3,12,23),(1,4,8),(5,19,37)); lvl=3; h,r-ind=1,1
  [3,3]((4,15,29),(3,12,23),(5,19,37)); lvl=3; h,r-ind=1,1
[4,3]((2,7,14),(1,3,6),(3,11,21),(4,15,29)); lvl=2; h,r-ind=1,1
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  [3,3]((5,18,35),(3,11,21),(1,3,6)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,14),(5,18,35),(1,3,6)); lvl=3; h,r-ind=1,1
  [3,3]((4,15,29),(2,7,14),(5,18,35)); lvl=3; h,r-ind=1,1
  [3,3]((4,15,29),(5,18,35),(3,11,21)); lvl=3; h,r-ind=1,1
[7,3]((1,6,9),(1,7,11),(1,5,9),(3,12,23),(1,4,7),(3,11,21),(4,15,29)); lvl=2; h,r-ind=1,1
  [4,3]((2,8,15),(2,10,17),(1,5,9),(1,6,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,16),(4,20,35),(1,6,10),(2,10,17)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,15,26),(4,20,35),(1,6,10)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,17),(3,15,26),(1,6,10)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,16),(2,10,17),(3,15,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,16),(3,15,26),(4,20,35)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,9),(4,20,35),(1,6,10)); lvl=4; h,r-ind=1,1
    [4,3]((2,8,15),(2,9,16),(1,5,9),(4,20,35)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,9),(4,20,35),(3,14,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,16),(4,20,35),(3,14,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,15),(1,5,9),(3,14,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,16),(2,8,15),(3,14,25)); lvl=5; h,r-ind=1,1
  [5,3]((1,6,9),(1,7,11),(1,5,8),(2,10,17),(1,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,18),(2,10,17),(1,6,10)); lvl=4; h,r-ind=1,1
    [4,3]((3,18,29),(4,23,37),(2,11,18),(1,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,23,37),(2,11,18),(5,29,47)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(2,11,18),(5,29,47)); lvl=5; h,r-ind=1,1
      [3,3]((3,18,29),(4,23,37),(5,29,47)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(3,18,29),(5,29,47)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,11),(3,18,29),(1,6,10)); lvl=4; h,r-ind=1,1
    [5,3]((1,7,11),(1,6,9),(3,17,27),(3,18,29),(4,23,37)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,27),(2,12,19),(4,23,37)); lvl=5; h,r-ind=1,1
      [3,3]((3,18,29),(2,12,19),(4,23,37)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,11),(3,18,29),(2,12,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(3,17,27),(2,12,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,11),(1,6,9),(2,12,19)); lvl=5; h,r-ind=1,1
    [4,3]((1,5,8),(3,17,27),(4,23,37),(2,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,27),(4,23,37),(5,28,45)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,18),(4,23,37),(5,28,45)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(2,11,18),(5,28,45)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(3,17,27),(5,28,45)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,8),(2,11,18),(2,10,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(1,5,8),(3,17,27)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,7),(1,5,8),(2,8,15),(2,10,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,8),(4,18,31),(2,10,17),(2,9,16)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,18,31),(3,14,24),(2,9,16)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,17),(3,14,24),(2,9,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(2,10,17),(3,14,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(4,18,31),(3,14,24)); lvl=5; h,r-ind=1,1
    [4,3]((2,8,15),(1,4,7),(4,18,31),(2,9,16)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,4,7),(4,18,31),(3,13,23)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,16),(4,18,31),(3,13,23)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,15),(2,9,16),(3,13,23)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,15),(1,4,7),(3,13,23)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,7),(1,5,8),(4,18,31)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,7),(2,8,15),(3,11,21)); lvl=3; h,r-ind=1,1
  [3,3]((2,8,15),(3,12,23),(1,5,9)); lvl=3; h,r-ind=1,1
  [3,3]((2,8,15),(4,15,29),(3,12,23)); lvl=3; h,r-ind=1,1
  [3,3]((2,8,15),(3,11,21),(4,15,29)); lvl=3; h,r-ind=1,1
[6,3]((1,5,9),(1,7,12),(3,12,23),(1,4,8),(1,7,14),(2,11,25)); lvl=2; h,r-ind=1,1
  [3,3]((4,22,43),(2,11,21),(3,16,31)); lvl=3; h,r-ind=1,1
  [6,3]((3,14,27),(5,23,44),(3,15,28),(4,21,39),(2,11,21),(3,16,31)); lvl=3; h,r-ind=2,1; alert-h-inc
    [3,3]((2,10,19),(5,23,44),(4,19,36)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,19),(3,15,28),(4,19,36)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,19),(4,21,39),(3,15,28)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,19),(4,21,39),(3,16,30)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,19),(2,11,21),(3,16,30)); lvl=4; h,r-ind=1,1
    [3,3]((3,14,27),(2,10,19),(5,23,44)); lvl=4; h,r-ind=1,1
    [3,3]((3,14,27),(3,15,29),(2,10,19)); lvl=4; h,r-ind=1,1
    [3,3]((3,15,29),(2,10,19),(3,16,31)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,19),(3,16,31),(2,11,21)); lvl=4; h,r-ind=1,1
  [6,3]((3,14,27),(1,4,8),(1,5,11),(2,11,22),(4,22,43),(3,16,31)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,11),(1,4,8),(1,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((3,14,27),(1,4,8),(1,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((3,14,27),(3,15,29),(1,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((3,16,31),(3,15,29),(1,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,22),(1,5,11),(1,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,22),(4,22,43),(1,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((3,16,31),(4,22,43),(1,5,10)); lvl=4; h,r-ind=1,1
  [4,3]((3,14,27),(3,13,25),(5,23,44),(1,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((5,23,44),(3,13,25),(6,27,52)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(3,13,25),(6,27,52)); lvl=4; h,r-ind=1,1
    [3,3]((3,14,27),(5,23,44),(6,27,52)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(3,14,27),(6,27,52)); lvl=4; h,r-ind=1,1
  [3,3]((3,13,25),(3,12,23),(1,4,8)); lvl=3; h,r-ind=1,1
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    [5,3]((1,5,9),(3,13,25),(5,23,44),(3,15,28),(3,12,23)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,36),(2,9,17),(3,15,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,9,17),(3,15,28)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,23),(1,5,9),(2,9,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,23,44),(4,19,36),(2,9,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,25),(5,23,44),(2,9,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,25),(3,12,23),(2,9,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,13),(1,5,11),(2,11,22)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,6,13),(2,11,25),(1,5,11)); lvl=3; h,r-ind=1,1
    [5,3]((1,7,14),(1,6,13),(1,7,13),(2,11,22),(4,22,43)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,12),(2,11,22),(4,22,43)); lvl=4; h,r-ind=1,1
      [3,3]((5,29,56),(1,6,12),(4,22,43)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,7,13),(5,29,56),(1,6,12)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,7,14),(1,7,13),(1,6,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,13),(1,7,14),(1,6,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,13),(1,6,12),(2,11,22)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,13),(1,7,12),(4,22,43),(2,11,21)); lvl=3; h,r-ind=3,1; alert-h-inc
      [4,3]((5,29,56),(1,6,11),(4,22,43),(2,11,21)); lvl=4; h,r-ind=1,1
        [4,3]((3,17,33),(6,34,65),(4,22,43),(2,11,21)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,28,54),(4,22,43),(2,11,21)); lvl=6; h,r-ind=1,1
          [3,3]((6,34,65),(5,28,54),(2,11,21)); lvl=6; h,r-ind=1,1
          [3,3]((3,17,33),(6,34,65),(5,28,54)); lvl=6; h,r-ind=1,1
          [3,3]((3,17,33),(5,28,54),(4,22,43)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,11),(6,34,65),(2,11,21)); lvl=5; h,r-ind=1,1
        [3,3]((3,17,33),(1,6,11),(6,34,65)); lvl=5; h,r-ind=1,1
        [3,3]((5,29,56),(3,17,33),(1,6,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,13),(5,29,56),(1,6,11)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((1,7,13),(1,7,12),(1,6,11)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,20),(4,21,39),(1,7,12),(2,11,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,30),(4,21,39),(5,27,50)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,20),(8,44,81),(4,21,39),(5,27,50)); lvl=4; h,r-ind=1,1
        [3,3]((7,38,70),(8,44,81),(5,27,50)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,39),(7,38,70),(5,27,50)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,20),(4,21,39),(7,38,70)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,20),(7,38,70),(8,44,81)); lvl=5; h,r-ind=1,1
      [4,3]((8,44,81),(1,6,11),(3,16,30),(5,27,50)); lvl=4; h,r-ind=1,1
        [3,3]((6,33,61),(1,6,11),(3,16,30)); lvl=5; h,r-ind=1,1
        [3,3]((6,33,61),(5,27,50),(3,16,30)); lvl=5; h,r-ind=1,1
        [3,3]((8,44,81),(6,33,61),(5,27,50)); lvl=5; h,r-ind=1,1
        [3,3]((8,44,81),(6,33,61),(1,6,11)); lvl=5; h,r-ind=1,1
      [4,3]((2,11,20),(8,44,81),(1,6,11),(1,7,12)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,17,31),(1,6,11),(8,44,81)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,20),(3,17,31),(8,44,81)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,12),(3,17,31),(1,6,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,20),(1,7,12),(3,17,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,11),(2,11,21),(3,16,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,9),(2,11,20),(1,7,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,9),(3,15,28),(2,11,20),(4,21,39)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,28),(4,21,39),(5,26,48)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,20),(4,21,39),(5,26,48)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,11,20),(5,26,48)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(3,15,28),(5,26,48)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,9),(1,4,7),(1,4,6)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,6,9),(1,7,11),(2,14,21)); lvl=2; h,r-ind=1,1
  [3,3]((1,7,11),(1,5,9),(1,7,12)); lvl=2; h,r-ind=2,2; optimized-h
[5,3]((1,8,15),(2,14,21),(1,7,14),(2,16,23),(2,15,30)); lvl=1; h,r-ind=1,1
  [3,3]((2,15,29),(1,7,14),(2,15,30)); lvl=2; h,r-ind=1,1
  [3,3]((2,15,29),(1,8,15),(2,15,30)); lvl=2; h,r-ind=1,1
  [4,3]((1,7,12),(4,30,51),(2,15,29),(1,7,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,13),(1,7,14),(2,15,29),(2,15,27)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,14),(4,29,55),(2,15,28),(2,15,29)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,22,42),(2,15,28),(4,29,55)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,14),(3,22,42),(4,29,55)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,29),(3,22,42),(2,15,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,14),(2,15,29),(3,22,42)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,13),(1,7,14),(4,29,55)); lvl=4; h,r-ind=1,1
      [4,3]((2,15,27),(1,7,13),(4,29,55),(2,15,28)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,7,13),(4,29,55),(3,22,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,28),(4,29,55),(3,22,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,27),(2,15,28),(3,22,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,27),(1,7,13),(3,22,41)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,12),(1,7,13),(2,15,26),(2,15,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,26),(2,15,27),(3,22,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,13),(2,15,27),(3,22,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(2,15,26),(3,22,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,13),(1,7,12),(3,22,39)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,12),(2,15,26),(4,30,51)); lvl=3; h,r-ind=1,1
  [4,3]((4,30,51),(2,15,29),(1,8,15),(1,8,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,15,29),(2,15,27),(1,8,15),(1,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,15),(1,8,14),(4,31,57)); lvl=4; h,r-ind=1,1
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      [4,3]((2,15,28),(2,15,27),(1,8,14),(4,31,57)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,15,27),(3,23,42),(1,8,14)); lvl=5; h,r-ind=1,1
        [3,3]((4,31,57),(3,23,42),(1,8,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,28),(4,31,57),(3,23,42)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,28),(2,15,27),(3,23,42)); lvl=5; h,r-ind=1,1
      [4,3]((2,15,29),(2,15,28),(1,8,15),(4,31,57)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,15,28),(4,31,57),(3,23,43)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,15),(4,31,57),(3,23,43)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,29),(1,8,15),(3,23,43)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,29),(2,15,28),(3,23,43)); lvl=5; h,r-ind=1,1
    [4,3]((2,15,26),(1,8,13),(2,15,27),(1,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,23,40),(1,8,14),(1,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,26),(3,23,40),(1,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,27),(3,23,40),(1,8,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,26),(2,15,27),(3,23,40)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,26),(4,30,51),(1,8,13)); lvl=3; h,r-ind=1,1
  [5,3]((1,7,11),(1,7,12),(4,30,51),(1,8,12),(1,8,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,8,13),(4,30,51),(2,15,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,12),(4,30,51),(2,15,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,12),(1,7,11),(3,22,36)); lvl=3; h,r-ind=1,1
    [4,3]((4,30,49),(3,23,37),(1,8,13),(2,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((5,38,62),(1,8,13),(3,23,37)); lvl=4; h,r-ind=1,1
      [3,3]((4,30,49),(5,38,62),(3,23,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,25),(4,30,49),(5,38,62)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,25),(5,38,62),(1,8,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,12),(4,30,49),(3,22,36),(2,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,22,36),(4,30,49),(5,37,61)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,25),(4,30,49),(5,37,61)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(3,22,36),(5,37,61)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,25),(1,7,12),(5,37,61)); lvl=4; h,r-ind=1,1
    [5,3]((1,7,11),(1,8,12),(4,30,49),(3,23,37),(3,22,36)); lvl=3; h,r-ind=1,1
      [3,3]((3,23,37),(1,8,12),(2,15,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(1,8,12),(2,15,24)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,37),(4,30,49),(2,15,24)); lvl=4; h,r-ind=1,1
      [3,3]((3,22,36),(4,30,49),(2,15,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(3,22,36),(2,15,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,12),(3,23,37),(1,8,13)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,11),(1,8,12),(2,15,22)); lvl=2; h,r-ind=1,1
  [3,3]((1,8,12),(2,16,23),(2,15,22)); lvl=2; h,r-ind=1,1
  [3,3]((1,7,11),(2,14,21),(2,15,22)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,8,15),(2,16,23)); lvl=1; h,r-ind=7,7; optimized-h
[3,3]((1,8,23),(0,1,0),(1,8,15)); lvl=1; h,r-ind=8,8; optimized-h
[4,3]((0,1,0),(2,14,21),(2,16,23),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,15,21),(1,6,9),(2,14,21),(2,15,22)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,10),(1,6,9),(2,14,21),(5,36,53)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,21,31),(1,6,9),(2,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((5,36,53),(3,21,31),(2,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,10),(5,36,53),(3,21,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,10),(3,21,31),(1,6,9)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,22),(2,14,21),(5,36,53)); lvl=3; h,r-ind=1,1
    [3,3]((2,15,22),(1,7,10),(5,36,53)); lvl=3; h,r-ind=1,1
    [3,3]((2,15,22),(2,15,21),(1,7,10)); lvl=3; h,r-ind=1,1
  [4,3]((1,8,11),(2,15,21),(2,16,23),(2,15,22)); lvl=2; h,r-ind=1,1
    [3,3]((3,23,33),(2,15,22),(2,15,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,11),(3,23,33),(2,15,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,11),(2,16,23),(3,23,33)); lvl=3; h,r-ind=1,1
    [3,3]((2,16,23),(3,23,33),(2,15,22)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,8,11),(2,16,23)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,6,6),(1,8,11),(2,15,21)); lvl=2; h,r-ind=1,1
    [3,3]((2,15,20),(2,15,21),(1,7,9)); lvl=3; h,r-ind=1,1
    [5,3]((2,15,20),(2,15,18),(3,23,28),(3,23,30),(1,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,23,30),(2,15,19),(2,15,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(2,15,19),(2,15,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,18),(1,7,9),(2,15,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,29),(3,23,30),(2,15,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,28),(3,23,29),(2,15,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,18),(3,23,28),(2,15,19)); lvl=4; h,r-ind=1,1
    [4,3]((4,30,33),(2,15,18),(1,6,6),(1,7,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((1,7,8),(2,15,18),(1,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(1,7,8),(1,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(2,15,17),(2,15,18)); lvl=4; h,r-ind=1,1
      [4,3]((4,30,33),(5,36,39),(1,7,8),(2,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(3,22,24),(5,36,39)); lvl=5; h,r-ind=1,1
        [3,3]((6,44,49),(1,7,8),(3,22,24)); lvl=5; h,r-ind=1,1
        [4,3]((4,30,33),(6,44,49),(2,15,17),(3,22,24)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,37,41),(2,15,17),(6,44,49)); lvl=6; h,r-ind=1,1
          [3,3]((5,37,41),(3,22,24),(6,44,49)); lvl=6; h,r-ind=1,1
          [3,3]((4,30,33),(5,37,41),(3,22,24)); lvl=6; h,r-ind=1,1
          [3,3]((4,30,33),(5,37,41),(2,15,17)); lvl=6; h,r-ind=1,1
        [3,3]((6,44,49),(2,15,17),(1,7,8)); lvl=5; h,r-ind=1,1
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  [3,3]((1,6,6),(5,36,39),(1,7,8)); lvl=4; h,r-ind=3,3; optimized-h
[4,3]((0,1,0),(4,30,33),(2,16,17),(1,6,6)); lvl=3; h,r-ind=1,1
  [6,3]((5,36,39),(4,30,31),(3,22,23),(3,23,24),(4,30,33),(3,23,25)); lvl=4; h,r-ind=1,1
    [4,3]((4,29,31),(2,15,16),(5,36,39),(3,22,24)); lvl=5; h,r-ind=1,1
      [3,3]((7,51,55),(3,22,24),(2,15,16)); lvl=6; h,r-ind=1,1
      [3,3]((4,29,31),(7,51,55),(2,15,16)); lvl=6; h,r-ind=1,1
      [3,3]((5,36,39),(4,29,31),(7,51,55)); lvl=6; h,r-ind=1,1
      [3,3]((5,36,39),(7,51,55),(3,22,24)); lvl=6; h,r-ind=1,1
    [3,3]((4,30,33),(2,15,16),(3,22,24)); lvl=5; h,r-ind=1,1
    [3,3]((3,23,25),(4,30,33),(2,15,16)); lvl=5; h,r-ind=1,1
    [3,3]((3,22,23),(4,29,31),(2,15,16)); lvl=5; h,r-ind=1,1
    [3,3]((4,30,31),(3,22,23),(2,15,16)); lvl=5; h,r-ind=1,1
    [3,3]((4,30,31),(3,23,24),(2,15,16)); lvl=5; h,r-ind=1,1
    [3,3]((3,23,25),(3,23,24),(2,15,16)); lvl=5; h,r-ind=1,1
  [4,3]((1,8,8),(2,16,17),(3,23,24),(3,23,25)); lvl=4; h,r-ind=1,1
    [3,3]((3,23,25),(4,31,33),(3,23,24)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,8),(4,31,33),(3,23,24)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,8),(2,16,17),(4,31,33)); lvl=5; h,r-ind=1,1
    [3,3]((2,16,17),(3,23,25),(4,31,33)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(1,8,8),(2,16,17)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,6),(5,36,39),(1,7,7),(3,22,23)); lvl=4; h,r-ind=1,1
    [3,3]((2,14,15),(4,29,31),(5,36,39)); lvl=5; h,r-ind=1,1
    [4,3]((2,14,15),(8,57,60),(5,36,38),(4,29,31)); lvl=5; h,r-ind=1,1
      [3,3]((8,57,60),(7,50,53),(5,36,38)); lvl=6; h,r-ind=1,1
      [3,3]((4,29,31),(7,50,53),(5,36,38)); lvl=6; h,r-ind=1,1
      [3,3]((2,14,15),(4,29,31),(7,50,53)); lvl=6; h,r-ind=1,1
      [3,3]((2,14,15),(8,57,60),(7,50,53)); lvl=6; h,r-ind=1,1
    [3,3]((3,22,23),(5,36,38),(4,29,31)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,7),(1,6,6),(2,14,15),(8,57,60)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((1,6,6),(3,21,22),(2,14,15)); lvl=6; h,r-ind=1,1
      [3,3]((8,57,60),(3,21,22),(2,14,15)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,7),(8,57,60),(3,21,22)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,7),(1,6,6),(3,21,22)); lvl=6; h,r-ind=1,1
    [4,3]((1,7,7),(3,22,23),(8,57,60),(5,36,38)); lvl=5; h,r-ind=1,1
      [3,3]((3,22,23),(6,43,45),(5,36,38)); lvl=6; h,r-ind=1,1
      [3,3]((8,57,60),(6,43,45),(5,36,38)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,7),(8,57,60),(6,43,45)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,7),(3,22,23),(6,43,45)); lvl=6; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,6),(1,7,7)); lvl=4; h,r-ind=1,1
  [4,3]((1,8,8),(2,15,15),(4,30,31),(3,23,24)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,15),(4,30,31),(5,38,39)); lvl=5; h,r-ind=1,1
    [3,3]((3,23,24),(4,30,31),(5,38,39)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,8),(3,23,24),(5,38,39)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,8),(2,15,15),(5,38,39)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(1,8,8),(2,15,15)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,7),(2,15,15),(4,30,31),(3,22,23)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,15),(4,30,31),(5,37,38)); lvl=5; h,r-ind=1,1
    [3,3]((3,22,23),(4,30,31),(5,37,38)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,7),(2,15,15),(5,37,38)); lvl=5; h,r-ind=1,1
    [3,3]((3,22,23),(1,7,7),(5,37,38)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(1,7,7),(2,15,15)); lvl=4; h,r-ind=1,1
[5,3]((4,30,33),(2,16,17),(1,8,9),(2,15,18),(3,23,28)); lvl=3; h,r-ind=1,1
  [3,3]((3,23,27),(1,8,9),(3,23,28)); lvl=4; h,r-ind=1,1
  [3,3]((2,15,18),(3,23,27),(3,23,28)); lvl=4; h,r-ind=1,1
  [4,3]((3,23,26),(3,23,27),(1,8,9),(9,70,78)); lvl=4; h,r-ind=1,3; alert-r-inc
    [3,3]((1,8,9),(4,31,35),(3,23,27)); lvl=5; h,r-ind=1,1
    [3,3]((3,23,26),(4,31,35),(3,23,27)); lvl=5; h,r-ind=1,1
    [3,3]((9,70,78),(1,8,9),(4,31,35)); lvl=5; h,r-ind=1,1
    [3,3]((3,23,26),(9,70,78),(4,31,35)); lvl=5; h,r-ind=1,1
  [4,3]((2,15,17),(2,15,18),(3,23,26),(3,23,27)); lvl=4; h,r-ind=1,1
    [3,3]((5,38,44),(3,23,27),(3,23,26)); lvl=5; h,r-ind=1,1
    [3,3]((2,15,17),(5,38,44),(3,23,26)); lvl=5; h,r-ind=1,1
    [3,3]((2,15,18),(5,38,44),(3,23,27)); lvl=5; h,r-ind=1,1
    [3,3]((2,15,17),(2,15,18),(5,38,44)); lvl=5; h,r-ind=1,1
  [5,3]((3,23,25),(5,39,43),(2,15,17),(3,23,26),(9,70,78)); lvl=4; h,r-ind=1,1
    [4,3]((3,23,26),(8,62,69),(12,92,103),(7,54,60)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((10,77,86),(7,54,60),(8,62,69)); lvl=6; h,r-ind=1,1
      [3,3]((3,23,26),(10,77,86),(8,62,69)); lvl=6; h,r-ind=1,1
      [3,3]((12,92,103),(3,23,26),(10,77,86)); lvl=6; h,r-ind=1,1
      [3,3]((12,92,103),(10,77,86),(7,54,60)); lvl=6; h,r-ind=1,1
    [5,3]((3,23,25),(4,31,34),(2,15,17),(12,92,103),(7,54,60)); lvl=5; h,r-ind=1,1
      [4,3]((9,69,77),(7,54,60),(13,100,111),(15,115,128)); lvl=6; h,r-ind=1,1
        [3,3]((22,169,188),(13,100,111),(7,54,60)); lvl=7; h,r-ind=1,1
        [3,3]((9,69,77),(22,169,188),(7,54,60)); lvl=7; h,r-ind=1,1
        [3,3]((15,115,128),(22,169,188),(13,100,111)); lvl=7; h,r-ind=1,1
        [3,3]((9,69,77),(15,115,128),(22,169,188)); lvl=7; h,r-ind=1,1
      [4,3]((6,46,51),(4,31,34),(13,100,111),(15,115,128)); lvl=6; h,r-ind=1,1
        [3,3]((19,146,162),(13,100,111),(4,31,34)); lvl=7; h,r-ind=1,1
        [3,3]((6,46,51),(19,146,162),(4,31,34)); lvl=7; h,r-ind=1,1
        [3,3]((15,115,128),(19,146,162),(13,100,111)); lvl=7; h,r-ind=1,1
```

```
            [3,3]((6,46,51),(15,115,128),(19,146,162)); lvl=7; h,r-ind=1,1
          [3,3]((3,23,25),(6,46,51),(4,31,34)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,17),(9,69,77),(15,115,128)); lvl=6; h,r-ind=1,1
          [3,3]((6,46,51),(2,15,17),(15,115,128)); lvl=6; h,r-ind=1,1
          [3,3]((3,23,25),(6,46,51),(2,15,17)); lvl=6; h,r-ind=1,1
          [3,3]((9,69,77),(12,92,103),(7,54,60)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,17),(9,69,77),(12,92,103)); lvl=6; h,r-ind=1,1
          [3,3]((4,31,34),(7,54,60),(13,100,111)); lvl=6; h,r-ind=1,1
        [4,3]((5,39,43),(4,31,34),(8,62,69),(7,54,60)); lvl=5; h,r-ind=1,1
          [3,3]((7,54,60),(4,31,34),(12,93,103)); lvl=6; h,r-ind=1,1
          [3,3]((5,39,43),(4,31,34),(12,93,103)); lvl=6; h,r-ind=1,1
          [3,3]((8,62,69),(5,39,43),(12,93,103)); lvl=6; h,r-ind=1,1
          [3,3]((8,62,69),(7,54,60),(12,93,103)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,17),(3,23,26),(12,92,103)); lvl=5; h,r-ind=1,1
        [3,3]((3,23,26),(9,70,78),(8,62,69)); lvl=5; h,r-ind=1,1
        [3,3]((5,39,43),(9,70,78),(8,62,69)); lvl=5; h,r-ind=1,1
      [3,3]((4,30,33),(3,23,25),(2,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,16,17),(3,23,25),(5,39,43)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((2,16,17),(5,39,43),(1,8,9),(9,70,78)); lvl=4; h,r-ind=1,1
        [3,3]((5,39,43),(9,70,78),(6,47,52)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(9,70,78),(6,47,52)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,17),(5,39,43),(6,47,52)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(2,16,17),(6,47,52)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(2,16,17),(1,8,9)); lvl=3; h,r-ind=1,1
    [5,3]((0,1,0),(1,8,9),(1,8,11),(3,23,28),(3,23,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,10),(3,23,29),(3,23,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,11),(1,8,10),(3,23,30)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,11),(1,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,10),(3,23,28),(3,23,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,9),(1,8,10),(3,23,28)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,9),(1,8,10)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,11),(2,15,20),(3,23,30),(2,15,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,23,31),(3,23,30),(2,15,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,21),(3,23,31),(2,15,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,11),(2,15,21),(3,23,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,11),(3,23,31),(3,23,30)); lvl=4; h,r-ind=1,1
  [5,3]((1,4,6),(1,4,4),(1,6,6),(2,15,21),(1,6,9)); lvl=2; h,r-ind=1,1
    [5,3]((1,4,4),(1,4,5),(1,5,5),(2,10,13),(4,23,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,11,14),(2,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,6),(2,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,4),(1,5,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,6),(5,28,34),(4,23,29),(2,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(3,17,21),(5,28,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(6,33,41),(3,17,21)); lvl=5; h,r-ind=1,1
        [4,3]((2,11,14),(6,33,41),(4,23,29),(3,17,21)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((6,33,41),(5,28,35),(3,17,21)); lvl=6; h,r-ind=1,1
          [3,3]((4,23,29),(5,28,35),(3,17,21)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,14),(4,23,29),(5,28,35)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,14),(6,33,41),(5,28,35)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,14),(1,5,6),(6,33,41)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,5),(1,5,6),(5,28,34)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,4,4),(1,5,5),(1,5,6)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,7),(1,6,8),(2,10,13),(4,23,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(1,6,8),(4,23,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,14),(4,22,29),(1,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(4,22,29),(1,6,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,7),(2,11,14),(2,10,13),(4,22,29)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,10,13),(3,16,21),(2,11,14)); lvl=5; h,r-ind=1,1
        [3,3]((4,22,29),(3,16,21),(2,11,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(4,22,29),(3,16,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(2,10,13),(3,16,21)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,6),(1,5,7),(1,6,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,6),(2,12,15),(1,5,5),(4,23,29)); lvl=3; h,r-ind=3,1; alert-h-inc
      [4,3]((1,6,7),(5,28,34),(2,12,15),(4,23,29)); lvl=4; h,r-ind=1,1
        [4,3]((2,12,15),(6,35,43),(3,17,21),(4,23,29)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,17,21),(5,29,36),(6,35,43)); lvl=6; h,r-ind=1,1
          [3,3]((2,12,15),(5,29,36),(6,35,43)); lvl=6; h,r-ind=1,1
          [3,3]((4,23,29),(2,12,15),(5,29,36)); lvl=6; h,r-ind=1,1
          [3,3]((4,23,29),(3,17,21),(5,29,36)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(2,12,15),(6,35,43)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(6,35,43),(3,17,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(5,28,34),(3,17,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(1,5,5),(5,28,34)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((1,6,6),(1,6,7),(1,5,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,8),(2,12,15),(4,23,29)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,8),(1,7,10),(1,7,9),(2,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,17),(1,7,9),(1,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(2,13,17),(1,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(2,12,15),(2,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,15),(2,13,17),(1,7,9)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,6,6),(1,7,9),(2,12,15)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,7,10),(2,15,21),(1,7,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,7),(1,6,8),(1,6,9),(1,7,10)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,8),(1,7,10),(2,12,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,9),(1,7,10),(2,12,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(1,6,8),(2,12,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,9),(1,5,7),(2,12,17)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,6),(1,5,7),(1,4,5),(2,10,13)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,7),(2,10,13),(2,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,10,13),(2,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(1,5,7),(2,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(1,4,6),(2,9,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,4,6),(1,4,4)); lvl=2; h,r-ind=8,4; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,0,0),(1,4,4)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,4,4),(1,6,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
```

23.21 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,9,23)); lvl=0; h,r-ind=23,529
  [5,3]((2,10,25),(1,5,11),(2,9,19),(1,2,5),(2,3,7)); lvl=1; h,r-ind=3,1
    [4,3]((1,4,9),(2,7,16),(2,9,19),(2,6,13)); lvl=2; h,r-ind=1,1
      [3,3]((5,18,40),(2,6,13),(2,7,16)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,4,9),(5,18,40),(2,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,32),(5,18,40),(2,6,13)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,4,9),(2,9,19),(4,15,32),(5,18,40)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,11,24),(2,8,17),(4,15,32)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,24),(7,27,59),(2,8,17)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,4,9),(7,27,59),(2,9,19),(2,8,17)); lvl=4; h,r-ind=1,3
          [3,3]((2,8,17),(3,12,26),(7,27,59)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,9),(3,12,26),(7,27,59)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,19),(2,8,17),(3,12,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,9),(2,9,19),(3,12,26)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,9),(3,11,24),(5,18,40),(7,27,59)); lvl=4; h,r-ind=1,3
          [3,3]((4,15,33),(3,11,24),(5,18,40)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,9),(4,15,33),(5,18,40)); lvl=5; h,r-ind=1,1
          [3,3]((7,27,59),(4,15,33),(3,11,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,9),(7,27,59),(4,15,33)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,7),(2,7,16),(2,3,7),(2,6,13)); lvl=2; h,r-ind=1,1
      [3,3]((5,15,34),(2,7,16),(2,6,13)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((4,9,20),(5,15,34),(2,6,13)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,3,7),(2,3,7),(4,9,20),(5,15,34)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,8,18),(2,4,9),(7,18,41)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,3,7),(2,3,7),(2,4,9),(7,18,41)); lvl=4; h,r-ind=1,3
          [3,3]((2,3,7),(2,4,9),(3,7,16)); lvl=5; h,r-ind=1,1
          [3,3]((7,18,41),(2,4,9),(3,7,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(7,18,41),(3,7,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(2,3,7),(3,7,16)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,7),(5,15,34),(3,8,18),(7,18,41)); lvl=4; h,r-ind=1,3
          [3,3]((4,11,25),(5,15,34),(3,8,18)); lvl=5; h,r-ind=1,1
          [3,3]((7,18,41),(4,11,25),(3,8,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(7,18,41),(4,11,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(4,11,25),(5,15,34)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,18),(4,9,20),(2,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(5,15,34),(2,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(1,2,5),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,7),(1,4,10),(3,11,26),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,17),(3,11,26),(1,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,7,17),(1,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,7,17),(3,11,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(1,2,5),(2,7,17)); lvl=3; h,r-ind=1,1
    [4,3]((3,12,28),(4,15,35),(1,4,9),(2,7,16)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,16),(4,15,35),(5,19,44)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,28),(4,15,35),(5,19,44)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(3,12,28),(5,19,44)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(2,7,16),(5,19,44)); lvl=3; h,r-ind=1,1
    [5,3]((1,5,12),(1,4,10),(3,11,26),(3,12,28),(4,15,35)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,19),(3,11,26),(4,15,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,19),(3,12,28),(4,15,35)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,12),(2,8,19),(3,12,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,10),(2,8,19),(3,11,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,12),(1,4,10),(2,8,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,12),(2,10,25),(1,4,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,7),(3,11,26),(4,15,35),(2,7,16)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,26),(4,15,35),(5,18,42)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,16),(4,15,35),(5,18,42)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(3,11,26),(5,18,42)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,16),(1,3,7),(5,18,42)); lvl=3; h,r-ind=1,1
```

```
  [3,3]((1,4,9),(1,5,11),(2,9,19)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,12),(3,12,28),(1,4,9),(1,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,21),(1,4,9),(3,12,28)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,12),(2,9,21),(3,12,28)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,21),(1,5,11),(1,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,12),(2,9,21),(1,5,11)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(1,2,5),(2,3,7)); lvl=1; h,r-ind=1,1
[5,3]((1,0,0),(2,10,15),(1,5,10),(2,9,19),(2,3,7)); lvl=1; h,r-ind=1,1
  [4,3]((4,13,23),(1,3,5),(1,1,2),(2,5,10)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((1,2,4),(5,14,25),(1,3,5),(1,1,2)); lvl=3; h,r-ind=1,3
      [3,3]((2,5,9),(5,14,25),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,5,9),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,1,2),(2,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(5,14,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,11),(1,2,4),(5,14,25)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((2,6,11),(2,5,10),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((4,13,23),(2,6,11),(5,14,25),(1,3,5)); lvl=3; h,r-ind=1,3
      [3,3]((2,6,11),(5,14,25),(3,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(5,14,25),(3,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,23),(2,6,11),(3,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(4,13,23),(3,9,16)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,7),(2,6,13),(1,1,2),(2,5,10)); lvl=2; h,r-ind=3,1; alert-h-inc
    [3,3]((1,2,4),(2,6,13),(2,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,20),(1,2,4),(2,6,13)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((2,3,7),(4,9,20),(1,1,2),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(1,2,4),(4,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(4,7,15)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,7),(1,1,2),(2,4,9),(4,7,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,1,2),(3,5,11),(4,7,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,9),(3,5,11),(4,7,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,7),(2,4,9),(3,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,7),(1,1,2),(3,5,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,9),(4,9,20),(1,2,4)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,7),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,8),(1,4,7),(4,13,23),(2,5,10)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((1,4,7),(5,17,31),(4,13,23),(2,6,11)); lvl=3; h,r-ind=1,3
      [3,3]((5,17,31),(3,10,18),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,23),(3,10,18),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(5,17,31),(3,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,23),(1,4,7),(3,10,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(5,17,31),(2,6,11)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,3,6),(2,5,10),(2,6,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,8),(1,3,6),(1,4,7),(5,17,31)); lvl=3; h,r-ind=1,3
      [3,3]((1,3,6),(5,17,31),(2,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(5,17,31),(2,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,3,6),(2,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(1,4,8),(2,7,13)); lvl=4; h,r-ind=1,1
  [4,3]((2,6,13),(2,9,19),(1,4,8),(2,5,10)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((4,15,32),(1,3,6),(1,4,8),(2,9,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,31),(1,3,6),(1,4,8)); lvl=4; h,r-ind=1,1
      [4,3]((2,8,17),(2,9,19),(4,15,31),(1,4,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,8),(2,9,19),(3,12,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,17),(2,9,19),(3,12,25)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,31),(1,4,8),(3,12,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,17),(4,15,31),(3,12,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,17),(4,15,31),(1,3,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,17),(4,15,32),(1,3,6)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,13),(4,15,32),(1,3,6)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((2,6,13),(1,3,6),(2,5,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,10),(2,9,19),(1,4,8)); lvl=2; h,r-ind=1,1
  [5,3]((1,4,6),(1,5,8),(1,4,7),(4,13,23),(1,3,5)); lvl=2; h,r-ind=1,1
    [5,3]((1,4,6),(1,5,8),(3,11,18),(3,12,20),(4,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,13),(4,15,25),(3,12,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,8,13),(3,12,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,13),(3,11,18),(4,15,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,8,13),(3,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(1,4,6),(2,8,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,7),(2,7,12),(3,12,20),(4,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,12),(4,15,25),(5,19,32)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,20),(4,15,25),(5,19,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,12,20),(5,19,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,7,12),(5,19,32)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(4,13,23),(2,7,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,5),(2,7,12),(3,11,18),(4,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,12),(4,15,25),(5,18,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,18),(4,15,25),(5,18,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,12),(5,18,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,18),(1,3,5),(5,18,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(1,3,5),(3,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(4,13,23),(2,7,12)); lvl=3; h,r-ind=1,1
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      [3,3]((1,4,7),(1,5,8),(3,12,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,15),(1,4,6),(1,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,8),(2,10,17),(1,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,10),(1,4,8),(2,10,17),(1,4,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,8),(1,4,7),(3,13,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,9),(1,4,7),(3,13,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,9),(2,10,17),(1,4,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,10),(1,5,9),(1,4,8),(3,13,24)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,9),(3,13,24),(2,9,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(3,13,24),(2,9,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(1,5,9),(2,9,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(1,5,10),(2,9,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(2,6,9),(1,3,5),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,5),(3,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,3,5),(3,6,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,2),(1,2,3),(3,6,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,5),(1,2,3),(3,6,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(2,3,5),(3,6,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(2,3,5),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(1,0,0),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,6,9),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,6,9),(1,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,10,15),(2,18,23)); lvl=1; h,r-ind=1,1
    [3,3]((0,1,0),(2,18,23),(1,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,9),(2,14,19),(2,18,23),(1,9,11)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((1,9,11),(1,8,10),(2,18,23),(2,16,21)); lvl=3; h,r-ind=1,1
        [4,3]((1,8,10),(4,34,43),(2,16,21),(2,17,22)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,34,43),(3,25,32),(2,17,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,16,21),(3,25,32),(2,17,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,10),(2,16,21),(3,25,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,10),(4,34,43),(3,25,32)); lvl=5; h,r-ind=1,1
        [4,3]((2,18,23),(1,9,11),(4,34,43),(2,17,22)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,26,33),(1,9,11),(4,34,43)); lvl=5; h,r-ind=1,1
          [3,3]((3,26,33),(2,17,22),(4,34,43)); lvl=5; h,r-ind=1,1
          [3,3]((2,18,23),(3,26,33),(2,17,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,18,23),(3,26,33),(1,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,11),(1,8,10),(4,34,43)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,9),(1,8,10),(2,14,19),(2,16,21)); lvl=3; h,r-ind=1,1
        [4,3]((1,8,10),(4,30,39),(2,16,21),(2,15,20)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,23,30),(4,30,39),(2,15,20)); lvl=5; h,r-ind=1,1
          [3,3]((2,16,21),(3,23,30),(2,15,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,10),(2,16,21),(3,23,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,10),(3,23,30),(4,30,39)); lvl=5; h,r-ind=1,1
        [4,3]((2,14,19),(1,7,9),(4,30,39),(2,15,20)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,7,9),(3,22,29),(4,30,39)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,20),(3,22,29),(4,30,39)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,19),(2,15,20),(3,22,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,19),(1,7,9),(3,22,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(1,8,10),(4,30,39)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,6),(1,7,9),(2,10,15),(2,14,19)); lvl=2; h,r-ind=1,1
      [4,3]((1,7,9),(2,11,15),(2,14,19),(2,12,17)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,15),(1,6,8),(2,12,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,18),(1,6,8),(2,12,17)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,9),(2,13,18),(2,14,19),(1,6,8)); lvl=4; h,r-ind=1,1
          [3,3]((2,14,19),(2,13,18),(3,20,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,8),(2,13,18),(3,20,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,9),(2,14,19),(3,20,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,8),(1,7,9),(3,20,27)); lvl=5; h,r-ind=1,1
      [4,3]((2,10,15),(1,4,6),(2,11,15),(2,12,17)); lvl=3; h,r-ind=1,1
        [3,3]((2,12,17),(1,5,7),(2,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,16),(2,12,17),(1,5,7)); lvl=4; h,r-ind=1,1
        [4,3]((2,10,15),(2,11,16),(1,4,6),(1,5,7)); lvl=4; h,r-ind=1,1
          [3,3]((3,15,22),(1,5,7),(2,11,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,15),(3,15,22),(2,11,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(2,10,15),(3,15,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(3,15,22),(1,5,7)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,9),(1,6,6),(0,1,0),(1,9,11)); lvl=2; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,8),(2,17,17)); lvl=3; h,r-ind=1,1
      [5,3]((2,14,15),(1,7,8),(1,8,9),(1,8,8),(2,17,17)); lvl=3; h,r-ind=1,1
        [3,3]((1,8,9),(3,24,25),(2,17,17)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [3,3]((1,8,8),(3,24,25),(2,17,17)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,9),(3,24,25),(3,23,25),(4,31,33)); lvl=4; h,r-ind=1,1
          [4,3]((2,16,17),(9,70,75),(3,24,25),(4,31,33)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((4,31,33),(9,70,75),(6,47,50)); lvl=6; h,r-ind=1,1
            [3,3]((2,16,17),(9,70,75),(6,47,50)); lvl=6; h,r-ind=1,1
            [3,3]((3,24,25),(4,31,33),(6,47,50)); lvl=6; h,r-ind=1,1
            [3,3]((2,16,17),(3,24,25),(6,47,50)); lvl=6; h,r-ind=1,1
          [3,3]((3,23,25),(9,70,75),(4,31,33)); lvl=5; h,r-ind=1,1
          [4,3]((1,8,9),(2,16,17),(3,23,25),(9,70,75)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,16,17),(9,70,75),(5,39,42)); lvl=6; h,r-ind=1,1
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          [3,3]((3,23,25),(9,70,75),(5,39,42)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,9),(2,16,17),(5,39,42)); lvl=6; h,r-ind=1,1
          [3,3]((3,23,25),(1,8,9),(5,39,42)); lvl=6; h,r-ind=1,1
      [4,3]((2,15,16),(1,8,8),(3,24,25),(4,31,33)); lvl=4; h,r-ind=1,1
        [3,3]((5,39,41),(3,24,25),(1,8,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,16),(5,39,41),(1,8,8)); lvl=5; h,r-ind=1,1
        [3,3]((4,31,33),(5,39,41),(3,24,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,16),(4,31,33),(5,39,41)); lvl=5; h,r-ind=1,1
      [3,3]((2,14,15),(2,15,16),(1,8,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(1,8,9),(3,23,25)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,8),(2,15,16),(3,23,25),(4,31,33)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,16),(4,31,33),(5,38,41)); lvl=5; h,r-ind=1,1
        [3,3]((3,23,25),(4,31,33),(5,38,41)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(2,15,16),(5,38,41)); lvl=5; h,r-ind=1,1
        [3,3]((3,23,25),(1,7,8),(5,38,41)); lvl=5; h,r-ind=1,1
      [3,3]((2,14,15),(1,7,8),(2,15,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,6),(2,14,15),(1,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,9),(1,6,6),(1,7,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,9),(1,8,10),(1,7,8),(1,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,10),(1,8,9),(2,15,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(1,8,9),(2,15,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(1,7,8),(2,15,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(1,8,10),(2,15,18)); lvl=4; h,r-ind=1,1
    [5,3]((1,8,10),(1,9,11),(1,8,9),(0,1,0),(2,17,17)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,18,19),(1,9,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,17),(0,1,0),(1,9,9)); lvl=4; h,r-ind=1,1
      [4,3]((2,17,19),(1,8,9),(2,18,19),(1,9,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,9),(2,18,19),(3,26,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,19),(2,18,19),(3,26,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(2,17,19),(3,26,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(1,9,9),(3,26,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,9),(2,17,17),(1,9,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,10),(2,17,19),(1,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,18,19),(1,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,11),(0,1,0),(1,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,10),(1,9,11),(1,9,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,10),(2,17,19),(2,18,19),(1,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,17,19),(2,18,19),(3,26,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,10),(2,18,19),(3,26,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,10),(1,9,10),(3,26,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,10),(2,17,19),(3,26,29)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,6),(2,14,15),(0,1,0),(1,8,8)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,7,7),(2,14,15),(1,8,8)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(1,8,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(1,7,7),(2,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(1,7,7)); lvl=4; h,r-ind=1,1
  [5,3]((1,4,6),(2,6,9),(1,7,9),(1,6,6),(1,3,3)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((1,5,6),(1,3,3),(1,3,4),(2,9,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,4),(1,3,4),(1,4,5),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(1,3,4),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,3,4),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(1,4,5),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,4,4),(2,7,8)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,4),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,9,9),(1,4,4)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,6),(1,6,7),(1,5,6),(2,9,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,6,7),(3,16,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,6),(1,5,5),(1,6,7),(3,16,18)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,5),(2,11,12),(3,16,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(2,11,12),(3,16,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(1,6,7),(2,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(1,5,5),(2,11,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,5),(1,5,6),(3,16,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(2,9,9),(1,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(1,6,6),(1,6,7)); lvl=3; h,r-ind=1,1
    [5,3]((2,11,15),(2,10,13),(1,7,9),(1,6,7),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(3,17,21),(1,5,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,8),(4,21,27),(3,17,21),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,14),(1,5,6),(4,21,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(2,11,14),(4,21,27)); lvl=5; h,r-ind=1,1
        [3,3]((3,17,21),(2,11,14),(1,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(3,17,21),(2,11,14)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,13),(4,21,27),(1,5,6)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,15),(1,6,8),(2,10,13),(4,21,27)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,16,21),(1,6,8),(4,21,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,13),(3,16,21),(4,21,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,15),(3,16,21),(1,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,13),(2,11,15),(3,16,21)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,8),(1,7,9),(1,6,7),(3,17,21)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,12,15),(1,7,9),(1,6,7)); lvl=5; h,r-ind=1,1
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          [3,3]((3,17,21),(2,12,15),(1,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,8),(3,17,21),(2,12,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,8),(2,12,15),(1,7,9)); lvl=5; h,r-ind=1,1
      [4,3]((2,10,13),(2,8,11),(1,5,6),(1,3,4)); lvl=3; h,r-ind=2,1
        [4,3]((2,9,12),(1,4,5),(2,8,11),(1,3,4)); lvl=4; h,r-ind=1,1
          [3,3]((3,12,16),(1,3,4),(1,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,12),(3,12,16),(1,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,11),(3,12,16),(1,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,12),(2,8,11),(3,12,16)); lvl=5; h,r-ind=1,1
        [4,3]((2,10,13),(2,9,12),(1,5,6),(1,4,5)); lvl=4; h,r-ind=1,1
          [3,3]((1,4,5),(2,9,12),(3,14,18)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,13),(2,9,12),(3,14,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(2,10,13),(3,14,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(1,4,5),(3,14,18)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,6),(2,8,11),(2,6,9),(1,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,9),(2,7,10),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,11),(2,7,10),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(2,6,9),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,11),(1,4,6),(2,7,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,6),(2,11,15),(2,10,13),(2,8,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,7),(2,11,15),(2,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(2,9,12),(2,10,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,6),(1,5,7),(2,8,11),(2,9,12)); lvl=4; h,r-ind=1,1
          [3,3]((1,5,7),(2,9,12),(3,13,18)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,11),(2,9,12),(3,13,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(2,8,11),(3,13,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(1,5,7),(3,13,18)); lvl=5; h,r-ind=1,1
    [3,3]((1,0,0),(2,6,9),(1,3,3)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,6,6),(1,3,3),(0,1,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(1,3,3),(0,1,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((2,10,15),(1,9,14),(2,18,23),(1,5,10),(1,7,14)); lvl=1; h,r-ind=2,1
    [5,3]((2,14,23),(1,7,12),(1,9,14),(1,8,14),(2,18,25)); lvl=2; h,r-ind=1,1
      [3,3]((1,8,13),(1,8,14),(1,7,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,13),(3,23,37),(3,24,38),(1,7,12)); lvl=3; h,r-ind=1,1
        [3,3]((3,24,38),(3,23,37),(4,31,50)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,12),(3,23,37),(4,31,50)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,13),(3,24,38),(4,31,50)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,12),(1,8,13),(4,31,50)); lvl=4; h,r-ind=1,1
      [4,3]((2,14,23),(2,15,24),(3,23,37),(1,7,12)); lvl=3; h,r-ind=1,1
        [3,3]((3,22,36),(2,15,24),(3,23,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,12),(3,22,36),(3,23,37)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,23),(1,7,12),(3,22,36)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,23),(3,22,36),(2,15,24)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,12),(2,15,24),(3,23,37),(3,24,38)); lvl=3; h,r-ind=1,1
        [3,3]((2,15,24),(7,54,86),(3,23,37)); lvl=4; h,r-ind=1,1
        [4,3]((2,16,25),(3,24,38),(7,54,86),(3,23,37)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,39,62),(3,23,37),(3,24,38)); lvl=5; h,r-ind=1,1
          [3,3]((2,16,25),(5,39,62),(3,24,38)); lvl=5; h,r-ind=1,1
          [3,3]((7,54,86),(5,39,62),(3,23,37)); lvl=5; h,r-ind=1,1
          [3,3]((2,16,25),(7,54,86),(5,39,62)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,12),(2,16,25),(2,15,24),(7,54,86)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((7,54,86),(2,16,25),(4,31,49)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,12),(2,16,25),(4,31,49)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,24),(1,8,12),(4,31,49)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,24),(7,54,86),(4,31,49)); lvl=5; h,r-ind=1,1
      [3,3]((2,14,23),(1,8,12),(2,15,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,12),(3,24,38),(1,9,13)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,8,12),(2,18,25),(1,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,13),(1,8,14),(1,9,14)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,13),(3,24,38),(1,9,13),(1,9,14)); lvl=3; h,r-ind=1,1
        [3,3]((2,17,26),(1,9,13),(3,24,38)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,13),(2,17,26),(3,24,38)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,13),(1,9,14),(2,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,14),(2,17,26),(1,9,13)); lvl=4; h,r-ind=1,1
    [4,3]((2,14,23),(1,9,12),(1,7,10),(2,18,25)); lvl=2; h,r-ind=2,1
      [3,3]((2,16,23),(1,8,11),(1,9,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,12),(2,18,25),(2,16,23),(1,9,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,17,24),(1,9,12),(2,18,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,12),(2,17,24),(2,18,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,23),(1,8,12),(2,17,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,23),(2,17,24),(1,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(1,8,12),(2,16,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,14,23),(1,7,11),(1,8,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,11),(2,16,23),(1,8,11),(1,7,10)); lvl=3; h,r-ind=1,1
        [3,3]((2,16,23),(2,15,22),(1,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,10),(2,15,22),(1,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,11),(2,16,23),(2,15,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,10),(1,7,11),(2,15,22)); lvl=4; h,r-ind=1,1
    [4,3]((2,18,23),(1,9,12),(2,14,19),(1,7,10)); lvl=2; h,r-ind=2,1
      [4,3]((2,16,21),(1,8,11),(1,7,10),(2,14,19)); lvl=3; h,r-ind=1,1
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      [3,3]((1,7,10),(1,8,11),(4,30,41)); lvl=4; h,r-ind=1,1
      [4,3]((2,16,21),(2,15,20),(1,8,11),(4,30,41)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,23,31),(4,30,41),(2,15,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,21),(3,23,31),(2,15,20)); lvl=5; h,r-ind=1,1
        [3,3]((3,23,31),(1,8,11),(4,30,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,21),(3,23,31),(1,8,11)); lvl=5; h,r-ind=1,1
      [4,3]((2,14,19),(2,15,20),(1,7,10),(4,30,41)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,22,30),(2,15,20),(4,30,41)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(3,22,30),(4,30,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,19),(3,22,30),(2,15,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(2,14,19),(3,22,30)); lvl=5; h,r-ind=1,1
    [4,3]((2,18,23),(2,16,21),(1,9,12),(1,8,11)); lvl=3; h,r-ind=1,1
      [4,3]((2,17,22),(4,34,45),(1,8,11),(2,16,21)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,34,45),(3,25,33),(1,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,21),(3,25,33),(1,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,22),(2,16,21),(3,25,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,22),(4,34,45),(3,25,33)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,12),(4,34,45),(1,8,11)); lvl=4; h,r-ind=1,1
      [4,3]((2,18,23),(2,17,22),(1,9,12),(4,34,45)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,26,34),(2,17,22),(4,34,45)); lvl=5; h,r-ind=1,1
        [3,3]((3,26,34),(1,9,12),(4,34,45)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,23),(3,26,34),(1,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,23),(3,26,34),(2,17,22)); lvl=5; h,r-ind=1,1
  [4,3]((2,10,15),(1,5,8),(2,14,19),(1,7,10)); lvl=2; h,r-ind=2,1
    [4,3]((2,14,19),(2,12,17),(1,7,10),(1,6,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,13,18),(4,26,37),(1,6,9),(2,12,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,26,37),(3,19,27),(1,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,17),(3,19,27),(1,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,18),(2,12,17),(3,19,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,18),(4,26,37),(3,19,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,10),(4,26,37),(1,6,9)); lvl=4; h,r-ind=1,1
      [4,3]((2,14,19),(2,13,18),(1,7,10),(4,26,37)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,20,28),(2,13,18),(4,26,37)); lvl=5; h,r-ind=1,1
        [3,3]((3,20,28),(1,7,10),(4,26,37)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,19),(3,20,28),(1,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,19),(3,20,28),(2,13,18)); lvl=5; h,r-ind=1,1
    [4,3]((1,5,8),(2,10,15),(2,12,17),(1,6,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,9),(4,22,33),(2,12,17),(2,11,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,25),(2,11,16),(4,22,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,9),(3,17,25),(4,22,33)); lvl=5; h,r-ind=1,1
        [3,3]((3,17,25),(2,12,17),(2,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,9),(3,17,25),(2,12,17)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,8),(4,22,33),(2,10,15),(2,11,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,16,24),(2,11,16),(4,22,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(3,16,24),(4,22,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,15),(1,5,8),(3,16,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,15),(3,16,24),(2,11,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(1,6,9),(4,22,33)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,8),(2,10,17),(2,14,23),(1,7,10)); lvl=2; h,r-ind=2,1
    [3,3]((1,7,11),(1,6,10),(2,14,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,12,19),(1,7,11),(1,6,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,8),(2,12,19),(2,10,17),(1,6,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,11,18),(2,12,19),(1,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,17),(2,11,18),(1,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,10,17),(2,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,11,18),(2,12,19)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,10),(1,6,9),(2,12,19),(1,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,20),(1,6,9),(2,12,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(2,13,20),(2,12,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,10),(2,13,20),(1,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(1,7,10),(2,13,20)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(1,6,9),(2,12,19)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,14),(1,7,12),(1,8,14)); lvl=2; h,r-ind=2,2; alert-r-inc; optimized-h
  [3,3]((1,7,14),(1,6,12),(1,7,12)); lvl=2; h,r-ind=2,2; alert-r-inc; optimized-h
  [5,3]((1,5,10),(2,10,17),(2,14,23),(1,6,12),(1,7,12)); lvl=2; h,r-ind=1,1
    [4,3]((3,18,32),(3,19,33),(1,6,11),(1,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,19,33),(1,7,12),(4,25,44)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(1,7,12),(4,25,44)); lvl=4; h,r-ind=1,1
      [3,3]((3,18,32),(3,19,33),(4,25,44)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(3,18,32),(4,25,44)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,12),(1,6,11),(1,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,10),(1,6,12),(1,6,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,14,23),(3,19,33),(2,13,22),(1,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,20,34),(2,13,22),(3,19,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(3,20,34),(3,19,33)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,23),(3,20,34),(2,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(2,14,23),(3,20,34)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,10),(3,18,32),(3,19,33),(2,13,22)); lvl=3; h,r-ind=1,1
      [4,3]((3,18,32),(2,12,21),(3,19,33),(7,44,76)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,12,21),(7,44,76),(5,31,54)); lvl=5; h,r-ind=1,1
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          [3,3]((3,19,33),(7,44,76),(5,31,54)); lvl=5; h,r-ind=1,1
          [3,3]((3,18,32),(3,19,33),(5,31,54)); lvl=5; h,r-ind=1,1
          [3,3]((3,18,32),(2,12,21),(5,31,54)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,22),(3,19,33),(7,44,76)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,10),(2,13,22),(2,12,21),(7,44,76)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,13,22),(7,44,76),(4,25,43)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,21),(7,44,76),(4,25,43)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,10),(2,13,22),(4,25,43)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,21),(1,6,10),(4,25,43)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,9),(1,6,10),(3,18,32)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,10,17),(1,5,9),(1,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,14,23),(1,6,10),(2,13,22)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,10),(1,5,9),(3,18,32),(1,6,11)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,20),(1,5,9),(3,18,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,20),(1,6,11),(3,18,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(2,11,20),(1,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(2,11,20),(1,5,9)); lvl=4; h,r-ind=1,1
[3,3]((0,1,0),(1,9,14),(2,18,23)); lvl=1; h,r-ind=5,5; optimized-h
[3,3]((1,9,23),(0,1,0),(1,9,14)); lvl=1; h,r-ind=9,9; optimized-h
[3,3]((1,9,23),(2,10,25),(1,2,5)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((1,0,0),(1,9,23),(1,2,5)); lvl=1; h,r-ind=1,1
[5,3]((1,5,10),(1,7,15),(1,7,14),(1,5,11),(2,9,19)); lvl=1; h,r-ind=1,1
  [4,3]((2,10,21),(1,5,10),(4,23,48),(1,6,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,22,45),(1,6,12),(1,5,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,23),(2,10,21),(4,22,45),(1,5,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,16,33),(1,5,10),(2,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,23),(3,16,33),(2,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((4,22,45),(3,16,33),(1,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,23),(4,22,45),(3,16,33)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,23),(4,22,45),(1,6,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,23),(4,23,48),(1,6,12)); lvl=3; h,r-ind=1,1
  [5,3]((1,7,15),(1,6,13),(1,7,14),(4,23,48),(1,6,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,12,25),(1,6,12),(4,23,48)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,13),(2,12,25),(4,23,48)); lvl=3; h,r-ind=1,1
    [4,3]((2,12,25),(4,25,52),(3,19,39),(1,6,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,19,39),(4,25,52),(5,31,64)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,25),(4,25,52),(5,31,64)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(2,12,25),(5,31,64)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(3,19,39),(5,31,64)); lvl=4; h,r-ind=1,1
    [3,3]((3,19,39),(1,7,14),(1,6,12)); lvl=3; h,r-ind=1,1
    [5,3]((1,7,15),(3,19,40),(4,25,52),(3,19,39),(1,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,27),(4,25,52),(3,19,40)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,15),(2,13,27),(3,19,40)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,27),(3,19,39),(4,25,52)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,27),(1,7,14),(3,19,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,15),(2,13,27),(1,7,14)); lvl=4; h,r-ind=1,1
    [4,3]((3,19,40),(1,6,13),(2,12,25),(4,25,52)); lvl=3; h,r-ind=1,1
      [3,3]((5,31,65),(2,12,25),(1,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,40),(5,31,65),(1,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((4,25,52),(5,31,65),(2,12,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,40),(4,25,52),(5,31,65)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,15),(3,19,40),(1,6,13)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,13),(1,5,11),(2,10,21),(4,23,48)); lvl=2; h,r-ind=1,1
    [4,3]((2,11,23),(1,5,11),(2,10,21),(4,22,47)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,16,34),(1,5,11),(2,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,23),(3,16,34),(2,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,34),(4,22,47),(1,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,23),(3,16,34),(4,22,47)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,13),(2,11,23),(4,22,47)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,13),(2,11,23),(4,23,48)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,13),(1,5,11),(4,22,47)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,19),(2,10,21),(1,5,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,11),(2,9,19),(2,10,21)); lvl=2; h,r-ind=1,1
[4,3]((1,9,23),(2,10,25),(1,7,15),(1,5,11)); lvl=1; h,r-ind=2,4
  [3,3]((1,7,17),(1,6,15),(1,5,12)); lvl=2; h,r-ind=1,1
  [3,3]((2,10,25),(1,6,15),(1,5,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,9,23),(2,10,25),(1,6,15)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,13),(1,7,17),(1,5,11),(1,5,12)); lvl=2; h,r-ind=1,2
    [3,3]((1,6,14),(1,5,11),(1,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,17),(1,6,14),(1,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,13),(1,6,14),(1,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,17),(1,6,13),(1,6,14)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,13),(1,7,15),(1,7,17)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,7,15),(1,8,19),(1,7,17)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,9,23),(1,8,19),(1,7,17)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((2,14,35),(1,7,17),(1,6,15)); lvl=2; h,r-ind=1,1
  [3,3]((1,9,23),(2,14,35),(1,6,15)); lvl=2; h,r-ind=1,1
  [3,3]((1,9,23),(2,14,35),(1,7,17)); lvl=2; h,r-ind=2,2; optimized-h
[4,3]((1,9,23),(1,9,14),(1,7,15),(1,7,14)); lvl=1; h,r-ind=2,1
  [4,3]((2,16,33),(1,8,14),(1,7,14),(4,29,60)); lvl=2; h,r-ind=1,1
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    [3,3]((1,8,16),(2,16,31),(2,15,30)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,14),(1,8,14),(2,16,31),(2,15,30)); lvl=3; h,r-ind=1,1
      [4,3]((2,15,30),(2,16,31),(1,8,15),(4,30,59)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,16,31),(3,23,45),(1,8,15)); lvl=5; h,r-ind=1,1
        [3,3]((4,30,59),(3,23,45),(1,8,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,30),(2,16,31),(3,23,45)); lvl=5; h,r-ind=1,1
        [3,3]((4,30,59),(2,15,30),(3,23,45)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,14),(1,8,15),(4,30,59)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,14),(1,8,14),(1,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,14),(2,15,30),(4,30,59)); lvl=4; h,r-ind=1,1
    [3,3]((5,37,75),(1,7,14),(2,15,30)); lvl=3; h,r-ind=1,1
    [4,3]((2,15,31),(5,37,75),(4,29,60),(1,7,14)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((1,7,14),(5,37,75),(3,22,45)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,31),(5,37,75),(3,22,45)); lvl=4; h,r-ind=1,1
      [3,3]((4,29,60),(1,7,14),(3,22,45)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,31),(4,29,60),(3,22,45)); lvl=4; h,r-ind=1,1
    [4,3]((2,15,31),(5,37,75),(1,8,16),(2,15,30)); lvl=3; h,r-ind=1,1
      [3,3]((4,30,61),(2,15,30),(5,37,75)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,31),(4,30,61),(5,37,75)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,16),(4,30,61),(2,15,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,31),(1,8,16),(4,30,61)); lvl=4; h,r-ind=1,1
    [3,3]((2,16,33),(2,15,31),(1,8,16)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,15),(1,7,14),(4,29,60)); lvl=2; h,r-ind=1,1
  [4,3]((1,8,19),(1,7,15),(2,16,33),(4,29,60)); lvl=2; h,r-ind=1,1
    [4,3]((2,15,31),(1,7,15),(5,37,78),(4,29,60)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((3,22,46),(1,7,15),(5,37,78)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,31),(3,22,46),(5,37,78)); lvl=4; h,r-ind=1,1
      [3,3]((4,29,60),(3,22,46),(1,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,31),(4,29,60),(3,22,46)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,15),(5,37,78),(2,15,32)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,19),(2,16,35),(1,7,15),(2,15,32)); lvl=3; h,r-ind=1,1
      [4,3]((2,16,35),(1,8,18),(2,15,32),(4,30,65)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,23,50),(2,15,32),(4,30,65)); lvl=5; h,r-ind=1,1
        [3,3]((3,23,50),(1,8,18),(4,30,65)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,35),(3,23,50),(1,8,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,35),(3,23,50),(2,15,32)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,15),(2,15,32),(4,30,65)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,15),(1,8,18),(4,30,65)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,19),(1,7,15),(1,8,18)); lvl=4; h,r-ind=1,1
    [4,3]((2,15,31),(1,8,17),(5,37,78),(2,15,32)); lvl=3; h,r-ind=1,1
      [3,3]((4,30,63),(1,8,17),(2,15,32)); lvl=4; h,r-ind=1,1
      [3,3]((5,37,78),(4,30,63),(2,15,32)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,31),(5,37,78),(4,30,63)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,31),(4,30,63),(1,8,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,31),(2,16,33),(1,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,17),(2,16,35),(2,15,32)); lvl=3; h,r-ind=1,1
  [4,3]((1,9,23),(2,18,37),(1,8,19),(2,16,33)); lvl=2; h,r-ind=1,1
    [4,3]((1,9,19),(2,18,41),(1,8,17),(2,16,35)); lvl=3; h,r-ind=1,1
      [4,3]((5,42,92),(3,25,55),(2,16,35),(1,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((4,33,72),(3,25,55),(2,16,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,17),(4,33,72),(2,16,35)); lvl=5; h,r-ind=1,1
        [3,3]((5,42,92),(4,33,72),(3,25,55)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,17),(5,42,92),(4,33,72)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,19),(1,9,20),(5,42,92),(1,8,17)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((1,9,20),(2,17,37),(5,42,92)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,17),(2,17,37),(5,42,92)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,19),(1,8,17),(2,17,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,19),(1,9,20),(2,17,37)); lvl=5; h,r-ind=1,1
      [4,3]((2,17,38),(1,9,20),(5,42,92),(3,25,55)); lvl=4; h,r-ind=1,1
        [3,3]((4,34,75),(5,42,92),(1,9,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,38),(4,34,75),(1,9,20)); lvl=5; h,r-ind=1,1
        [3,3]((4,34,75),(3,25,55),(5,42,92)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,38),(4,34,75),(3,25,55)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,38),(2,18,41),(1,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,38),(3,25,55),(2,16,35)); lvl=4; h,r-ind=1,1
    [4,3]((1,9,23),(2,18,41),(1,8,19),(2,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,17,38),(2,16,35),(1,8,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,21),(2,17,38),(1,8,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,21),(2,18,43),(1,8,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,23),(2,18,43),(1,8,19),(1,8,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,25,59),(1,8,18),(1,8,19)); lvl=5; h,r-ind=1,1
        [4,3]((1,9,23),(1,9,22),(3,25,59),(1,8,19)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((1,9,22),(3,25,59),(2,17,41)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,19),(3,25,59),(2,17,41)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,23),(1,8,19),(2,17,41)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,23),(1,9,22),(2,17,41)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,22),(3,25,59),(1,8,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,22),(2,18,43),(1,8,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,21),(2,18,41),(2,17,38)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,19),(2,17,35),(1,8,17)); lvl=3; h,r-ind=1,1
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      [3,3]((2,17,35),(2,16,33),(1,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,18,37),(1,9,19),(2,17,35)); lvl=3; h,r-ind=1,1
    [4,3]((1,9,14),(2,18,37),(2,16,33),(1,8,14)); lvl=2; h,r-ind=1,1
      [3,3]((1,8,16),(2,16,33),(2,17,35)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,18),(1,8,16),(2,17,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,18,37),(1,9,18),(2,17,35)); lvl=3; h,r-ind=1,1
      [4,3]((1,9,18),(2,18,33),(2,16,31),(1,8,16)); lvl=3; h,r-ind=1,1
        [3,3]((1,9,17),(2,17,32),(2,18,33)); lvl=4; h,r-ind=1,1
        [4,3]((1,9,17),(5,42,81),(3,25,48),(2,17,32)); lvl=4; h,r-ind=1,1
          [3,3]((5,42,81),(4,34,65),(3,25,48)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,32),(4,34,65),(3,25,48)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,17),(2,17,32),(4,34,65)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,17),(5,42,81),(4,34,65)); lvl=5; h,r-ind=1,1
        [3,3]((3,25,48),(2,16,31),(2,17,32)); lvl=4; h,r-ind=1,1
        [4,3]((5,42,81),(3,25,48),(1,8,16),(2,16,31)); lvl=4; h,r-ind=1,1
          [3,3]((4,33,64),(2,16,31),(1,8,16)); lvl=5; h,r-ind=1,1
          [3,3]((5,42,81),(4,33,64),(1,8,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,33,64),(3,25,48),(2,16,31)); lvl=5; h,r-ind=1,1
          [3,3]((5,42,81),(4,33,64),(3,25,48)); lvl=5; h,r-ind=1,1
        [4,3]((1,9,18),(1,9,17),(5,42,81),(1,8,16)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,17,33),(1,9,17),(5,42,81)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,33),(1,8,16),(5,42,81)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,18),(2,17,33),(1,8,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,18),(2,17,33),(1,9,17)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,14),(1,8,14),(2,18,33),(2,16,31)); lvl=3; h,r-ind=1,1
        [3,3]((1,8,15),(2,17,32),(2,16,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,16),(1,8,15),(2,17,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,18,33),(1,9,16),(2,17,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,16),(2,18,31),(1,8,15)); lvl=4; h,r-ind=1,1
        [4,3]((1,9,14),(2,18,31),(1,8,14),(1,8,15)); lvl=4; h,r-ind=1,1
          [3,3]((1,8,14),(1,8,15),(3,25,44)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,15),(1,8,15),(3,25,44)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,15),(2,18,31),(1,8,15)); lvl=5; h,r-ind=1,1
          [4,3]((1,9,14),(1,9,15),(1,8,14),(3,25,44)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,25,44),(1,9,15),(2,17,29)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,14),(1,9,15),(2,17,29)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,14),(1,9,14),(2,17,29)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,14),(3,25,44),(2,17,29)); lvl=6; h,r-ind=1,1
```

23.22 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,10,23)); lvl=0; h,r-ind=23,529
  [4,3]((1,10,23),(2,13,26),(1,10,13),(2,17,38)); lvl=1; h,r-ind=2,3
    [4,3]((1,7,14),(2,16,31),(1,7,13),(1,8,13)); lvl=2; h,r-ind=1,1
      [4,3]((1,7,13),(4,29,55),(2,16,29),(1,8,13)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((1,8,14),(2,15,28),(2,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,14),(5,37,68),(2,15,28)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,7,13),(5,37,68),(4,29,55),(2,15,28)); lvl=4; h,r-ind=1,3
          [3,3]((3,22,41),(5,37,68),(2,15,28)); lvl=5; h,r-ind=1,1
          [3,3]((4,29,55),(3,22,41),(2,15,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,13),(4,29,55),(3,22,41)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,13),(3,22,41),(5,37,68)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,13),(1,8,14),(1,8,13),(5,37,68)); lvl=4; h,r-ind=1,3
          [3,3]((2,15,27),(1,8,14),(1,8,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,13),(2,15,27),(1,8,13)); lvl=5; h,r-ind=1,1
          [3,3]((5,37,68),(2,15,27),(1,8,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,13),(5,37,68),(2,15,27)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,14),(1,8,15),(4,29,55),(2,16,29)); lvl=3; h,r-ind=1,1
        [4,3]((4,30,57),(2,15,28),(1,8,15),(2,16,29)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,8,15),(2,16,29),(3,23,43)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,28),(2,16,29),(3,23,43)); lvl=5; h,r-ind=1,1
          [3,3]((4,30,57),(1,8,15),(3,23,43)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,28),(4,30,57),(3,23,43)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,14),(4,30,57),(2,15,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,14),(2,15,28),(4,29,55)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,14),(4,30,57),(1,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,13),(1,7,14),(4,29,55)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,14),(1,8,15),(2,16,31)); lvl=3; h,r-ind=1,1
    [5,3]((1,10,18),(2,16,31),(1,9,17),(1,10,13),(1,8,13)); lvl=2; h,r-ind=1,1
      [4,3]((2,18,33),(1,9,15),(1,8,15),(2,16,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,25,45),(1,8,15),(2,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,15),(3,25,45),(2,16,29)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
        [3,3]((1,9,16),(1,9,15),(3,25,45)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
        [3,3]((1,9,16),(3,25,45),(1,8,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,18,33),(1,9,16),(1,8,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,15),(1,9,13),(1,8,13),(2,16,29)); lvl=3; h,r-ind=1,1
        [4,3]((1,9,14),(1,8,14),(1,9,13),(1,8,13)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((1,8,14),(1,8,13),(2,17,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,13),(1,8,13),(2,17,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,14),(1,8,14),(2,17,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,13),(1,9,14),(2,17,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,15),(1,9,14),(1,8,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,15),(2,16,29),(1,8,14)); lvl=4; h,r-ind=1,1
    [4,3]((1,9,15),(2,20,31),(1,9,13),(1,10,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,9,14),(1,9,13),(2,20,29),(1,10,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,9,13),(3,28,41),(1,10,14),(1,10,13)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,28,41),(2,19,27),(1,10,14)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,13),(2,19,27),(1,10,14)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,13),(1,10,13),(2,19,27)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,13),(3,28,41),(2,19,27)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,14),(1,9,13),(3,28,41)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,14),(3,28,41),(1,10,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,14),(2,20,29),(1,10,14)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,15),(1,9,14),(1,10,15),(2,20,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,19,29),(2,20,29),(1,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,15),(2,19,29),(1,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,14),(1,9,15),(2,19,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,14),(2,19,29),(2,20,29)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,15),(2,20,31),(1,10,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,10,18),(2,18,33),(1,9,15),(2,20,31)); lvl=3; h,r-ind=1,2; alert-r-inc
      [4,3]((2,20,33),(1,10,16),(1,9,16),(1,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,16),(1,9,15),(2,19,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,16),(1,9,15),(2,19,32)); lvl=5; h,r-ind=1,1
        [3,3]((2,20,33),(1,10,16),(2,19,32)); lvl=5; h,r-ind=1,1
        [3,3]((2,20,33),(1,9,16),(2,19,32)); lvl=5; h,r-ind=1,1
      [3,3]((1,10,16),(2,20,31),(1,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,10,18),(2,20,33),(1,9,16)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,10,18),(2,18,33),(1,9,16)); lvl=4; h,r-ind=1,1
    [4,3]((2,18,33),(1,9,17),(2,16,31),(1,8,15)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,17,32),(2,16,31),(1,9,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,18,33),(2,17,32),(1,9,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,15),(2,18,33),(2,17,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,15),(2,17,32),(2,16,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,10,18),(2,18,33),(1,9,17)); lvl=3; h,r-ind=1,1
  [4,3]((1,9,20),(1,8,17),(2,16,31),(1,9,17)); lvl=2; h,r-ind=3,1; alert-h-inc
    [3,3]((1,9,17),(2,16,31),(1,8,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,9,17),(2,18,37),(1,8,16)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((1,9,20),(2,18,37),(1,8,17),(1,8,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,25,52),(1,8,16),(1,8,17)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,20),(3,25,52),(1,9,19),(1,8,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,17,36),(3,25,52),(1,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,20),(2,17,36),(1,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,17),(2,17,36),(3,25,52)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,20),(1,8,17),(2,17,36)); lvl=5; h,r-ind=1,1
      [3,3]((3,25,52),(1,9,19),(1,8,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,19),(2,18,37),(1,8,16)); lvl=4; h,r-ind=1,1
  [4,3]((1,10,23),(1,10,18),(1,9,20),(1,9,17)); lvl=2; h,r-ind=1,1
    [4,3]((2,20,41),(1,10,18),(2,18,37),(1,9,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,10,18),(2,20,39),(1,9,17),(1,9,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,17),(1,9,18),(3,28,54)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,19),(1,9,18),(3,28,54)); lvl=5; h,r-ind=1,1
        [3,3]((2,20,39),(1,10,19),(1,9,18)); lvl=5; h,r-ind=1,1
        [4,3]((1,10,18),(1,10,19),(1,9,17),(3,28,54)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((1,10,19),(3,28,54),(2,19,36)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,17),(3,28,54),(2,19,36)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,18),(1,10,19),(2,19,36)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,17),(1,10,18),(2,19,36)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,20),(2,20,39),(1,9,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,10,20),(2,19,39),(1,9,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,19,39),(2,18,37),(1,9,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,20,41),(1,10,20),(2,19,39)); lvl=4; h,r-ind=1,1
    [4,3]((1,10,23),(2,20,41),(1,9,20),(2,18,37)); lvl=3; h,r-ind=1,1
      [3,3]((2,19,39),(1,9,19),(2,18,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,19,39),(1,10,21),(1,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,10,21),(2,20,43),(1,9,19)); lvl=4; h,r-ind=1,1
      [4,3]((1,10,23),(2,20,43),(1,9,20),(1,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,28,61),(1,9,19),(1,9,20)); lvl=5; h,r-ind=1,1
        [4,3]((1,10,23),(3,28,61),(1,10,22),(1,9,20)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,19,42),(1,10,22),(3,28,61)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,20),(2,19,42),(3,28,61)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,23),(2,19,42),(1,10,22)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,20),(1,10,23),(2,19,42)); lvl=6; h,r-ind=1,1
        [3,3]((3,28,61),(1,10,22),(1,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,22),(2,20,43),(1,9,19)); lvl=5; h,r-ind=1,1
      [3,3]((2,19,39),(2,20,41),(1,10,21)); lvl=4; h,r-ind=1,1
  [3,3]((1,7,14),(1,8,17),(2,16,31)); lvl=2; h,r-ind=3,3; alert-h-inc; optimized-h
  [3,3]((1,7,14),(2,13,26),(1,7,13)); lvl=2; h,r-ind=1,1
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    [4,3]((2,15,32),(1,7,14),(1,8,17),(2,13,26)); lvl=2; h,r-ind=1,1
      [3,3]((1,7,14),(1,8,17),(4,29,60)); lvl=3; h,r-ind=1,1
      [4,3]((2,14,29),(2,15,32),(1,8,17),(4,29,60)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,22,46),(2,15,32),(1,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((4,29,60),(3,22,46),(1,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,29),(4,29,60),(3,22,46)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,29),(3,22,46),(2,15,32)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,26),(2,14,29),(1,7,14),(4,29,60)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,21,43),(4,29,60),(2,14,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,26),(3,21,43),(2,14,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,21,43),(1,7,14),(4,29,60)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,26),(3,21,43),(1,7,14)); lvl=4; h,r-ind=1,1
    [4,3]((2,17,38),(1,9,20),(2,15,32),(1,8,17)); lvl=2; h,r-ind=1,1
      [3,3]((1,8,17),(1,9,20),(4,33,72)); lvl=3; h,r-ind=1,1
      [4,3]((2,16,35),(2,17,38),(1,9,20),(4,33,72)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,25,55),(2,17,38),(1,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((4,33,72),(3,25,55),(1,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,35),(4,33,72),(3,25,55)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,35),(3,25,55),(2,17,38)); lvl=4; h,r-ind=1,1
      [4,3]((2,15,32),(2,16,35),(1,8,17),(4,33,72)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,24,52),(4,33,72),(2,16,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,32),(3,24,52),(2,16,35)); lvl=4; h,r-ind=1,1
        [3,3]((3,24,52),(1,8,17),(4,33,72)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,32),(3,24,52),(1,8,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,10,23),(2,17,38),(1,9,20)); lvl=2; h,r-ind=1,1
  [5,3]((1,7,16),(1,4,9),(1,3,6),(2,13,26),(2,17,38)); lvl=1; h,r-ind=1,1
    [4,3]((1,6,13),(1,6,12),(1,7,15),(1,5,10)); lvl=2; h,r-ind=1,1
      [3,3]((1,7,15),(1,6,12),(2,12,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,10),(1,6,12),(2,12,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,13),(1,7,15),(2,12,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,10),(1,6,13),(2,12,25)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,6),(1,5,11),(1,6,13),(1,5,10)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,11),(1,6,13),(3,15,32)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,10),(1,4,8),(1,6,13),(3,15,32)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,8),(3,15,32),(2,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,13),(3,15,32),(2,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(1,6,13),(2,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(1,4,8),(2,10,21)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,6),(1,4,8),(1,5,11),(3,15,32)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,19),(1,5,11),(3,15,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(2,9,19),(3,15,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,4,8),(2,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(2,9,19),(1,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,9),(1,3,6),(1,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,16),(1,8,18),(1,5,11),(1,6,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,8,18),(1,6,13),(2,13,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,11),(1,6,13),(2,13,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,16),(1,8,18),(2,13,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,11),(1,7,16),(2,13,29)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(1,7,16),(1,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,8,18),(1,6,13),(1,7,15)); lvl=2; h,r-ind=1,1
    [4,3]((2,13,26),(1,6,12),(2,15,32),(1,7,15)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,12),(1,7,15),(4,27,56)); lvl=3; h,r-ind=1,1
      [4,3]((2,14,29),(2,15,32),(1,7,15),(4,27,56)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,21,44),(2,15,32),(1,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((4,27,56),(3,21,44),(1,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,29),(4,27,56),(3,21,44)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,29),(3,21,44),(2,15,32)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,26),(2,14,29),(1,6,12),(4,27,56)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,20,41),(2,14,29),(4,27,56)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(3,20,41),(4,27,56)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,26),(3,20,41),(2,14,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(2,13,26),(3,20,41)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,18),(2,17,38),(2,15,32),(1,7,15)); lvl=2; h,r-ind=1,1
      [4,3]((1,7,15),(4,31,68),(2,16,35),(2,15,32)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,31,68),(3,23,50),(2,16,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,32),(3,23,50),(2,16,35)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,15),(2,15,32),(3,23,50)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,15),(4,31,68),(3,23,50)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,18),(1,7,15),(4,31,68)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,18),(4,31,68),(2,17,38),(2,16,35)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,24,53),(2,16,35),(4,31,68)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,18),(3,24,53),(4,31,68)); lvl=4; h,r-ind=1,1
        [3,3]((2,17,38),(3,24,53),(2,16,35)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,18),(2,17,38),(3,24,53)); lvl=4; h,r-ind=1,1
  [3,3]((1,10,23),(1,7,16),(2,17,38)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(1,10,23),(1,7,16)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,7,16),(1,4,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,4,9),(1,3,6)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,10,23),(0,1,0),(1,10,13)); lvl=1; h,r-ind=10,10; optimized-h
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  [4,3]((2,13,17),(2,13,16),(1,10,12),(2,20,23)); lvl=2; h,r-ind=7,1
    [4,3]((1,10,12),(1,8,10),(2,20,23),(4,33,39)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,10),(2,17,20),(4,33,39)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,11),(1,8,10),(2,18,21),(2,17,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,10),(2,17,20),(3,26,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,21),(2,17,20),(3,26,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,11),(2,18,21),(3,26,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,11),(1,8,10),(3,26,31)); lvl=5; h,r-ind=1,1
      [4,3]((1,10,12),(1,9,11),(2,20,23),(2,18,21)); lvl=4; h,r-ind=1,1
        [4,3]((1,9,11),(4,38,45),(2,19,22),(2,18,21)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,19,22),(4,38,45),(3,28,33)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,11),(4,38,45),(3,28,33)); lvl=6; h,r-ind=1,1
          [3,3]((2,18,21),(2,19,22),(3,28,33)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,11),(2,18,21),(3,28,33)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,12),(1,9,11),(4,38,45)); lvl=5; h,r-ind=1,1
        [4,3]((2,20,23),(1,10,12),(4,38,45),(2,19,22)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,29,34),(1,10,12),(4,38,45)); lvl=6; h,r-ind=1,1
          [3,3]((2,19,22),(3,29,34),(4,38,45)); lvl=6; h,r-ind=1,1
          [3,3]((2,20,23),(3,29,34),(1,10,12)); lvl=6; h,r-ind=1,1
          [3,3]((2,19,22),(2,20,23),(3,29,34)); lvl=6; h,r-ind=1,1
    [4,3]((2,13,16),(1,8,10),(1,7,9),(4,33,39)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,10),(1,7,9),(6,45,56)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,16),(2,15,18),(1,7,9),(6,45,56)); lvl=4; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,7,9),(6,45,56),(4,30,37),(4,29,36)); lvl=5; h,r-ind=1,2
          [3,3]((6,45,56),(5,37,46),(4,30,37)); lvl=6; h,r-ind=1,1
          [3,3]((4,29,36),(5,37,46),(4,30,37)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,9),(4,29,36),(5,37,46)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,9),(6,45,56),(5,37,46)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,18),(4,30,37),(4,29,36)); lvl=5; h,r-ind=2,2; optimized-h
        [3,3]((2,15,18),(2,14,17),(4,29,36)); lvl=5; h,r-ind=2,2; optimized-h
        [4,3]((1,7,9),(2,13,16),(2,14,17),(4,29,36)); lvl=5; h,r-ind=1,2
          [3,3]((2,14,17),(3,21,26),(2,13,16)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,9),(3,21,26),(2,13,16)); lvl=6; h,r-ind=1,1
          [3,3]((4,29,36),(2,14,17),(3,21,26)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,9),(4,29,36),(3,21,26)); lvl=6; h,r-ind=1,1
      [4,3]((2,15,18),(2,16,19),(1,8,10),(6,45,56)); lvl=4; h,r-ind=1,1
        [3,3]((3,23,28),(1,8,10),(2,16,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,18),(3,23,28),(2,16,19)); lvl=5; h,r-ind=1,1
        [3,3]((8,61,75),(3,23,28),(1,8,10)); lvl=5; h,r-ind=1,1
        [4,3]((6,45,56),(4,30,37),(8,61,75),(1,8,10)); lvl=5; h,r-ind=1,1
          [3,3]((5,38,47),(4,30,37),(8,61,75)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,10),(5,38,47),(8,61,75)); lvl=6; h,r-ind=1,1
          [3,3]((6,45,56),(1,8,10),(5,38,47)); lvl=6; h,r-ind=1,1
          [3,3]((6,45,56),(5,38,47),(4,30,37)); lvl=6; h,r-ind=1,1
        [4,3]((2,15,18),(4,30,37),(8,61,75),(3,23,28)); lvl=5; h,r-ind=1,1
          [3,3]((7,53,65),(4,30,37),(8,61,75)); lvl=6; h,r-ind=1,1
          [3,3]((7,53,65),(3,23,28),(8,61,75)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,18),(7,53,65),(3,23,28)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,18),(7,53,65),(4,30,37)); lvl=6; h,r-ind=1,1
      [3,3]((4,33,39),(2,16,19),(1,8,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,17),(2,13,16),(1,7,9)); lvl=3; h,r-ind=1,1
  [4,3]((2,13,17),(1,8,11),(2,13,19),(1,10,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,10,12),(1,8,10),(1,8,11),(1,7,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,10),(1,9,11),(1,7,10),(3,24,32)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,16,21),(1,9,11),(3,24,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(2,16,21),(3,24,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,10),(1,7,10),(2,16,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,10),(2,16,21),(1,9,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,11),(1,7,10),(3,24,32)); lvl=4; h,r-ind=1,1
      [4,3]((1,10,12),(1,8,11),(1,9,11),(3,24,32)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,8,11),(3,24,32),(2,17,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,11),(3,24,32),(2,17,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,12),(1,9,11),(2,17,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,12),(1,8,11),(2,17,22)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,9),(1,8,10),(1,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,9),(2,13,18),(1,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,18),(2,13,19),(1,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,17),(1,7,9),(2,13,18)); lvl=3; h,r-ind=1,1
  [5,3]((1,8,13),(1,10,13),(1,8,11),(1,7,11),(1,10,12)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((1,7,11),(2,16,23),(1,8,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,17,24),(1,9,12),(2,16,23),(1,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,11),(2,16,23),(3,25,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,24),(2,16,23),(3,25,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,12),(2,17,24),(3,25,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,12),(1,8,11),(3,25,35)); lvl=4; h,r-ind=1,1
    [3,3]((1,10,12),(1,9,12),(1,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,10,13),(1,10,12),(1,9,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,10,13),(1,9,13),(2,17,24),(1,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,13),(2,18,25),(2,17,24)); lvl=4; h,r-ind=1,1
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      [3,3]((1,9,12),(2,18,25),(2,17,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,12),(1,10,13),(2,18,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,10,13),(1,9,13),(2,18,25)); lvl=4; h,r-ind=1,1
    [4,3]((2,17,24),(1,7,11),(1,8,12),(2,16,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,24,35),(1,7,11),(1,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,24),(3,24,35),(1,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,16,23),(3,24,35),(1,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,24),(2,16,23),(3,24,35)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,13),(1,9,13),(2,17,24),(1,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,13),(2,17,24),(2,17,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,12),(2,17,24),(2,17,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,13),(1,8,12),(2,17,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,13),(1,9,13),(2,17,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,13),(1,7,11),(1,8,12)); lvl=3; h,r-ind=1,1
  [3,3]((1,8,13),(1,7,13),(1,7,11)); lvl=2; h,r-ind=2,2; alert-r-inc; optimized-h
  [4,3]((1,8,11),(2,13,19),(1,7,11),(4,26,41)); lvl=2; h,r-ind=3,3; alert-r-inc
    [3,3]((1,7,10),(2,13,19),(2,13,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,10),(5,34,52),(2,13,20)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [4,3]((1,7,11),(5,34,52),(4,26,41),(2,13,20)); lvl=3; h,r-ind=1,3
      [3,3]((3,20,31),(2,13,20),(4,26,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(3,20,31),(4,26,41)); lvl=4; h,r-ind=1,1
      [3,3]((5,34,52),(3,20,31),(2,13,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(5,34,52),(3,20,31)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,11),(1,8,11),(1,7,10),(5,34,52)); lvl=3; h,r-ind=1,3
      [3,3]((2,14,21),(1,8,11),(1,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((5,34,52),(2,14,21),(1,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(5,34,52),(2,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(2,14,21),(1,8,11)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,8),(2,13,19),(4,26,41),(1,6,10)); lvl=2; h,r-ind=3,3; alert-r-inc
    [4,3]((1,6,10),(5,31,49),(2,13,20),(4,26,41)); lvl=3; h,r-ind=1,3
      [3,3]((5,31,49),(3,19,30),(2,13,20)); lvl=4; h,r-ind=1,1
      [3,3]((4,26,41),(3,19,30),(2,13,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(5,31,49),(3,19,30)); lvl=4; h,r-ind=1,1
      [3,3]((4,26,41),(1,6,10),(3,19,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(5,31,49),(2,13,20)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,6,9),(2,13,19),(2,13,20)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,10),(1,5,8),(1,6,9),(5,31,49)); lvl=3; h,r-ind=1,3
      [3,3]((2,12,19),(1,6,9),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(2,12,19),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((5,31,49),(2,12,19),(1,6,9)); lvl=4; h,r-ind=1,1
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    [3,3]((1,7,12),(1,7,11),(4,27,45)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,22),(2,13,21),(1,7,11),(4,27,45)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,13,21),(3,20,33),(1,7,11)); lvl=5; h,r-ind=1,1
      [3,3]((4,27,45),(3,20,33),(1,7,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,22),(4,27,45),(3,20,33)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,22),(2,13,21),(3,20,33)); lvl=5; h,r-ind=1,1
    [3,3]((2,13,22),(1,7,12),(4,27,45)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,22),(4,26,45),(1,7,12)); lvl=4; h,r-ind=1,1
  [3,3]((4,26,41),(1,7,11),(2,13,21)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,10),(4,26,41),(2,13,21)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,11),(4,26,45),(1,6,10),(2,13,21)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,10),(4,25,43),(2,13,22),(2,13,21)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,25,43),(3,19,32),(2,13,22)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,21),(3,19,32),(2,13,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(2,13,21),(3,19,32)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(4,25,43),(3,19,32)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,11),(1,6,10),(4,25,43)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,11),(4,25,43),(2,13,22)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,11),(4,26,45),(2,13,22)); lvl=4; h,r-ind=1,1
  [5,3]((1,6,11),(1,6,12),(4,26,45),(1,7,13),(1,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,20,36),(1,7,12),(1,7,13)); lvl=4; h,r-ind=1,1
    [5,3]((1,6,12),(3,20,36),(3,19,35),(4,26,47),(1,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,24),(4,26,47),(3,20,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,13),(2,13,24),(3,20,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,12),(1,7,13),(2,13,24)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,35),(2,13,24),(4,26,47)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,12),(3,19,35),(2,13,24)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,11),(1,6,12),(3,19,35)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,11),(2,13,23),(3,19,35),(4,26,47)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,23),(4,26,47),(5,32,58)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,35),(4,26,47),(5,32,58)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,11),(2,13,23),(5,32,58)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,35),(1,6,11),(5,32,58)); lvl=5; h,r-ind=1,1
    [4,3]((2,13,23),(3,20,36),(4,26,47),(1,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((5,33,59),(3,20,36),(4,26,47)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,23),(5,33,59),(4,26,47)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,12),(2,13,23),(5,33,59)); lvl=5; h,r-ind=1,1
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      [3,3]((1,7,12),(5,33,59),(3,20,36)); lvl=5; h,r-ind=1,1
    [3,3]((2,13,23),(4,26,45),(1,7,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,11),(2,13,23),(4,26,45)); lvl=4; h,r-ind=1,1
[3,3]((1,6,12),(1,5,10),(1,6,10)); lvl=2; h,r-ind=2,2; alert-r-inc; optimized-h
[3,3]((2,13,26),(1,6,12),(1,7,13)); lvl=2; h,r-ind=1,1
[5,3]((1,3,6),(1,5,10),(1,3,5),(1,5,8),(1,6,10)); lvl=2; h,r-ind=1,2; alert-r-inc
  [4,3]((2,9,16),(2,10,17),(1,5,9),(1,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,10),(2,10,17),(3,15,26)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,16),(2,10,17),(3,15,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,9),(2,9,16),(3,15,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,9),(1,6,10),(3,15,26)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,10),(1,5,9),(1,6,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,8),(2,10,17),(1,6,10)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,10),(1,4,8),(2,9,16),(1,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,17),(2,9,16),(1,4,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,10),(2,9,17),(1,4,8)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,17),(1,5,9),(2,9,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,10),(2,9,17),(1,5,9)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,8),(2,9,16),(1,4,7),(2,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(2,9,16),(3,14,24)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,17),(2,9,16),(3,14,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(2,10,17),(3,14,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(1,4,7),(3,14,24)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,5),(1,5,8),(1,4,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,6),(1,3,5),(1,4,7)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,6),(1,4,8),(2,9,16),(1,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(2,8,15),(2,9,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(2,8,15),(2,9,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(1,3,6),(2,8,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(1,4,8),(2,8,15)); lvl=4; h,r-ind=1,1
[4,3]((1,3,5),(2,13,17),(1,5,8),(2,13,19)); lvl=2; h,r-ind=1,1
  [3,3]((2,13,18),(1,6,9),(2,13,19)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,8),(2,13,18),(1,6,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,8),(1,5,7),(1,6,9)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,5),(1,5,8),(1,5,7),(1,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(1,6,9),(3,15,23)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,7),(1,4,6),(1,6,9),(3,15,23)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,4,6),(2,10,15),(3,15,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(2,10,15),(3,15,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(1,6,9),(2,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(1,4,6),(2,10,15)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,5),(1,4,6),(1,5,8),(3,15,23)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,8),(3,15,23),(2,9,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(3,15,23),(2,9,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(1,5,8),(2,9,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(1,3,5),(2,9,14)); lvl=5; h,r-ind=1,1
  [3,3]((1,6,8),(2,13,17),(2,13,18)); lvl=3; h,r-ind=1,1
[4,3]((2,6,9),(1,3,5),(2,13,17),(2,13,16)); lvl=2; h,r-ind=7,1
  [4,3]((2,6,9),(4,19,25),(1,5,7),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(4,19,25),(1,5,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,6),(2,9,12),(2,8,11),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,11),(2,9,12),(3,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(2,9,12),(3,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(2,8,11),(3,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(1,4,6),(3,13,18)); lvl=5; h,r-ind=1,1
    [4,3]((2,6,9),(1,3,5),(1,4,6),(2,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,4,6),(4,14,21)); lvl=5; h,r-ind=1,1
      [4,3]((2,8,11),(2,7,10),(1,4,6),(4,14,21)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,16),(2,7,10),(4,14,21)); lvl=6; h,r-ind=1,1
        [3,3]((3,11,16),(1,4,6),(4,14,21)); lvl=6; h,r-ind=1,1
        [3,3]((2,8,11),(3,11,16),(1,4,6)); lvl=6; h,r-ind=1,1
        [3,3]((2,8,11),(3,11,16),(2,7,10)); lvl=6; h,r-ind=1,1
      [4,3]((2,6,9),(2,7,10),(1,3,5),(4,14,21)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,10),(4,14,21),(3,10,15)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,5),(4,14,21),(3,10,15)); lvl=6; h,r-ind=1,1
        [3,3]((2,6,9),(1,3,5),(3,10,15)); lvl=6; h,r-ind=1,1
        [3,3]((2,6,9),(2,7,10),(3,10,15)); lvl=6; h,r-ind=1,1
  [4,3]((2,13,16),(4,19,25),(1,6,8),(1,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(4,19,25),(2,10,13)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,14),(6,33,44),(1,5,7),(2,10,13)); lvl=4; h,r-ind=1,1
      [4,3]((4,22,29),(8,43,57),(6,33,44),(1,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((5,27,36),(1,5,7),(8,43,57)); lvl=6; h,r-ind=1,1
        [3,3]((4,22,29),(5,27,36),(8,43,57)); lvl=6; h,r-ind=1,1
        [3,3]((4,22,29),(6,33,44),(5,27,36)); lvl=6; h,r-ind=1,1
        [3,3]((6,33,44),(5,27,36),(1,5,7)); lvl=6; h,r-ind=1,1
      [3,3]((3,16,21),(8,43,57),(1,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,13),(3,16,21),(1,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,14),(2,10,13),(3,16,21)); lvl=5; h,r-ind=1,1
      [4,3]((2,11,14),(4,22,29),(3,16,21),(8,43,57)); lvl=5; h,r-ind=1,1
        [3,3]((7,38,50),(8,43,57),(4,22,29)); lvl=6; h,r-ind=1,1
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            [3,3]((2,11,14),(7,38,50),(4,22,29)); lvl=6; h,r-ind=1,1
            [3,3]((3,16,21),(7,38,50),(8,43,57)); lvl=6; h,r-ind=1,1
            [3,3]((3,16,21),(2,11,14),(7,38,50)); lvl=6; h,r-ind=1,1
        [4,3]((2,13,16),(2,11,14),(1,6,8),(6,33,44)); lvl=4; h,r-ind=2,4; alert-h-inc; alert-r-inc
          [4,3]((1,6,8),(4,23,30),(6,33,44),(4,22,29)); lvl=5; h,r-ind=1,2
            [3,3]((6,33,44),(5,28,37),(4,22,29)); lvl=6; h,r-ind=1,1
            [3,3]((4,23,30),(5,28,37),(4,22,29)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,8),(6,33,44),(5,28,37)); lvl=6; h,r-ind=1,1
            [3,3]((4,23,30),(1,6,8),(5,28,37)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,14),(4,23,30),(4,22,29)); lvl=5; h,r-ind=2,2; optimized-h
          [3,3]((2,11,14),(2,12,15),(4,23,30)); lvl=5; h,r-ind=2,2; optimized-h
          [4,3]((1,6,8),(2,13,16),(2,12,15),(4,23,30)); lvl=5; h,r-ind=1,2
            [3,3]((2,12,15),(2,13,16),(3,18,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,8),(2,13,16),(3,18,23)); lvl=6; h,r-ind=1,1
            [3,3]((4,23,30),(2,12,15),(3,18,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,8),(4,23,30),(3,18,23)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,8),(6,33,44),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,16),(2,13,17),(1,6,8)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(1,3,6),(2,6,9)); lvl=1; h,r-ind=9,3; optimized-h
[4,3]((1,0,0),(0,1,0),(2,6,9),(2,20,23)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,3),(2,13,15),(1,2,2),(1,6,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,7),(2,13,15),(1,6,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,11),(1,4,4),(1,6,7),(1,6,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,6),(1,6,7),(1,6,6),(1,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(1,6,6),(2,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,5),(1,6,6),(2,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(1,6,7),(2,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,5),(1,5,6),(2,11,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,4),(1,5,6),(1,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(2,9,11),(1,5,6)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(2,9,11),(1,2,2),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,11),(1,4,4)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,9),(1,3,3),(1,4,5),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(1,4,5),(1,4,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(1,4,4)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,9),(2,7,8),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,9),(2,7,8)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,3),(2,7,9),(1,2,2),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,3,3),(3,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,3),(3,8,9)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,2),(1,2,3),(1,3,4),(3,8,9)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((1,2,3),(1,3,4),(2,5,6)); lvl=6; h,r-ind=1,1
          [3,3]((3,8,9),(1,3,4),(2,5,6)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,2),(3,8,9),(2,5,6)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,2),(1,2,3),(2,5,6)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,9),(1,3,3)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,6,6)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((0,1,0),(2,13,15),(1,10,11),(1,6,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,6),(2,13,15),(1,7,8),(3,20,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,14),(1,7,8),(2,13,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(2,13,14),(2,13,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,21),(2,13,14),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(3,20,21),(2,13,14)); lvl=4; h,r-ind=1,1
    [5,3]((1,7,7),(2,17,17),(1,8,9),(1,7,8),(3,20,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,9),(2,17,17),(1,8,8)); lvl=4; h,r-ind=1,1
      [4,3]((2,15,16),(4,30,33),(1,8,9),(1,8,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,23,25),(1,8,9),(4,30,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,16),(3,23,25),(4,30,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,16),(1,8,8),(3,23,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,8),(3,23,25),(1,8,9)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,7),(2,15,16),(2,14,15),(1,8,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,15),(2,15,16),(3,22,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,8),(2,15,16),(3,22,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,7),(2,14,15),(3,22,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,8),(1,7,7),(3,22,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,7),(3,20,21),(2,14,15)); lvl=4; h,r-ind=1,1
      [4,3]((2,15,16),(4,30,33),(2,14,15),(1,7,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,14,15),(3,22,24),(1,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((4,30,33),(3,22,24),(1,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,16),(2,14,15),(3,22,24)); lvl=5; h,r-ind=1,1
        [3,3]((4,30,33),(2,15,16),(3,22,24)); lvl=5; h,r-ind=1,1
      [3,3]((3,20,21),(2,14,15),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((4,30,33),(1,8,9),(1,7,8)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,7,7),(2,17,17)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((0,1,0),(2,17,17),(1,10,11),(1,8,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,9),(1,9,10),(2,19,19),(1,9,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,18,19),(1,9,10),(2,19,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,19),(1,9,9),(2,19,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(2,18,19),(1,9,9)); lvl=5; h,r-ind=1,1
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        [3,3]((1,8,9),(2,18,19),(1,9,10)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(2,19,19),(1,9,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,17),(1,8,9),(1,9,9)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,17,17),(1,9,9)); lvl=4; h,r-ind=1,1
      [4,3]((0,1,0),(1,10,11),(1,9,10),(2,19,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,10,10),(1,10,11),(1,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,19,19),(1,10,10),(1,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(2,19,19),(1,10,10)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(1,10,10),(1,10,11)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,7),(1,6,6),(3,20,21)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,7,7),(1,6,6)); lvl=3; h,r-ind=1,1
  [4,3]((2,20,23),(2,13,16),(2,13,15),(1,10,11)); lvl=2; h,r-ind=7,1; alert-h-inc
    [3,3]((2,13,16),(2,13,15),(1,7,8)); lvl=3; h,r-ind=1,1
    [4,3]((4,33,39),(1,8,9),(2,13,16),(1,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,9),(1,7,8),(6,45,52)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,16),(2,15,18),(1,7,8),(6,45,52)); lvl=4; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((4,29,34),(1,7,8),(4,30,35),(6,45,52)); lvl=5; h,r-ind=1,2
          [3,3]((5,37,43),(4,30,35),(6,45,52)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,8),(5,37,43),(6,45,52)); lvl=6; h,r-ind=1,1
          [3,3]((4,29,34),(5,37,43),(4,30,35)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,8),(4,29,34),(5,37,43)); lvl=6; h,r-ind=1,1
        [3,3]((4,29,34),(2,15,18),(4,30,35)); lvl=5; h,r-ind=2,2; optimized-h
        [3,3]((2,14,17),(4,29,34),(2,15,18)); lvl=5; h,r-ind=2,2; optimized-h
        [4,3]((2,14,17),(2,13,16),(4,29,34),(1,7,8)); lvl=5; h,r-ind=1,2
          [3,3]((3,21,25),(2,13,16),(1,7,8)); lvl=6; h,r-ind=1,1
          [3,3]((4,29,34),(3,21,25),(1,7,8)); lvl=6; h,r-ind=1,1
          [3,3]((2,14,17),(4,29,34),(3,21,25)); lvl=6; h,r-ind=1,1
          [3,3]((2,14,17),(3,21,25),(2,13,16)); lvl=6; h,r-ind=1,1
      [4,3]((2,16,19),(2,15,18),(1,8,9),(6,45,52)); lvl=4; h,r-ind=1,1
        [4,3]((2,15,18),(4,30,35),(8,61,71),(3,23,27)); lvl=5; h,r-ind=1,1
          [3,3]((7,53,62),(4,30,35),(8,61,71)); lvl=6; h,r-ind=1,1
          [3,3]((7,53,62),(3,23,27),(8,61,71)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,18),(7,53,62),(3,23,27)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,18),(7,53,62),(4,30,35)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,9),(8,61,71),(3,23,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(2,16,19),(3,23,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,19),(2,15,18),(3,23,27)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,9),(6,45,52),(4,30,35),(8,61,71)); lvl=5; h,r-ind=1,1
          [3,3]((5,38,44),(6,45,52),(4,30,35)); lvl=6; h,r-ind=1,1
          [3,3]((8,61,71),(5,38,44),(4,30,35)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,9),(8,61,71),(5,38,44)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,9),(5,38,44),(6,45,52)); lvl=6; h,r-ind=1,1
      [3,3]((4,33,39),(2,16,19),(1,8,9)); lvl=4; h,r-ind=1,1
    [4,3]((2,20,23),(4,33,39),(1,10,11),(1,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,17,20),(1,8,9),(4,33,39)); lvl=4; h,r-ind=1,1
      [4,3]((2,17,20),(2,18,21),(1,9,10),(1,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,26,30),(1,9,10),(2,18,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,20),(3,26,30),(2,18,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(2,17,20),(3,26,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(3,26,30),(1,9,10)); lvl=5; h,r-ind=1,1
      [4,3]((2,18,21),(2,20,23),(1,9,10),(1,10,11)); lvl=4; h,r-ind=1,1
        [4,3]((2,20,23),(2,19,22),(1,10,11),(4,38,43)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,29,33),(2,19,22),(4,38,43)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,11),(3,29,33),(4,38,43)); lvl=6; h,r-ind=1,1
          [3,3]((2,20,23),(3,29,33),(2,19,22)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,11),(2,20,23),(3,29,33)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,10),(1,10,11),(4,38,43)); lvl=5; h,r-ind=1,1
        [4,3]((1,9,10),(2,18,21),(2,19,22),(4,38,43)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,18,21),(3,28,32),(2,19,22)); lvl=6; h,r-ind=1,1
          [3,3]((4,38,43),(3,28,32),(2,19,22)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,10),(4,38,43),(3,28,32)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,10),(2,18,21),(3,28,32)); lvl=6; h,r-ind=1,1
[3,3]((0,1,0),(2,20,23),(1,10,11)); lvl=2; h,r-ind=1,1
[4,3]((2,6,9),(1,2,3),(2,13,16),(2,13,15)); lvl=2; h,r-ind=1,1
  [3,3]((2,13,16),(2,13,15),(1,6,7)); lvl=3; h,r-ind=1,1
  [4,3]((2,13,16),(4,19,25),(2,9,11),(1,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(3,14,18),(2,9,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(2,10,13),(3,14,18)); lvl=4; h,r-ind=1,1
    [3,3]((4,19,25),(2,10,13),(3,14,18)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,14),(1,5,6),(2,10,13)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,16),(2,11,14),(1,6,7),(1,5,6)); lvl=4; h,r-ind=1,1
      [4,3]((2,12,15),(2,11,14),(1,5,6),(4,23,28)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,14),(1,5,6),(3,17,21)); lvl=6; h,r-ind=1,1
        [3,3]((4,23,28),(1,5,6),(3,17,21)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,15),(4,23,28),(3,17,21)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,15),(2,11,14),(3,17,21)); lvl=6; h,r-ind=1,1
      [3,3]((1,6,7),(1,5,6),(4,23,28)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,7),(2,13,16),(2,12,15),(4,23,28)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,18,22),(2,12,15),(2,13,16)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(3,18,22),(2,13,16)); lvl=6; h,r-ind=1,1
```

```
            [3,3]((4,23,28),(3,18,22),(2,12,15)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,7),(4,23,28),(3,18,22)); lvl=6; h,r-ind=1,1
      [4,3]((1,2,3),(2,6,9),(4,19,25),(2,9,11)); lvl=3; h,r-ind=1,1
        [3,3]((4,19,25),(2,9,12),(3,14,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,9,12),(3,14,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,11),(1,4,5),(3,14,18)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,9),(1,4,5),(2,8,11),(2,9,12)); lvl=4; h,r-ind=1,1
          [3,3]((1,4,5),(2,9,12),(3,12,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,11),(2,9,12),(3,12,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,9),(1,4,5),(3,12,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,11),(2,7,9),(3,12,16)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,3),(2,7,9),(2,6,9),(2,8,11)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,4),(2,8,11),(2,7,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(2,7,10),(2,8,11)); lvl=5; h,r-ind=1,1
          [4,3]((1,3,4),(1,2,3),(2,7,10),(2,6,9)); lvl=5; h,r-ind=1,1
            [3,3]((1,2,3),(2,6,9),(3,9,13)); lvl=6; h,r-ind=1,1
            [3,3]((2,7,10),(2,6,9),(3,9,13)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,4),(1,2,3),(3,9,13)); lvl=6; h,r-ind=1,1
            [3,3]((2,7,10),(1,3,4),(3,9,13)); lvl=6; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,10,13),(2,20,23)); lvl=1; h,r-ind=3,3; optimized-h
```

23.23 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,11,23)); lvl=0; h,r-ind=23,529
  [5,3]((2,2,3),(1,11,12),(2,22,23),(1,1,2),(1,6,12)); lvl=1; h,r-ind=5,1
    [3,3]((2,22,23),(1,10,11),(1,11,12)); lvl=2; h,r-ind=1,1
    [4,3]((2,17,24),(1,8,11),(1,10,11),(1,11,12)); lvl=2; h,r-ind=1,1
      [4,3]((1,9,12),(2,19,24),(1,8,11),(1,9,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,9,11),(2,19,24),(2,18,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,12),(2,19,24),(2,18,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,12),(1,8,11),(2,18,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,11),(1,9,11),(2,18,23)); lvl=4; h,r-ind=1,1
      [4,3]((1,11,12),(2,19,24),(1,10,11),(1,9,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,10,12),(1,9,11),(3,29,34)); lvl=4; h,r-ind=1,1
        [3,3]((1,10,11),(1,9,11),(3,29,34)); lvl=4; h,r-ind=1,1
        [4,3]((1,11,12),(1,10,11),(1,10,12),(3,29,34)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,20,23),(1,10,11),(3,29,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,10,12),(2,20,23),(3,29,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,11,12),(2,20,23),(1,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,10,12),(1,11,12),(2,20,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,12),(2,19,24),(1,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,24),(1,9,12),(1,8,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,9),(1,6,12),(2,17,24),(1,8,11)); lvl=2; h,r-ind=1,1
      [4,3]((2,15,22),(1,8,11),(1,8,12),(2,17,24)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,8,11),(2,17,24),(2,16,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,12),(2,17,24),(2,16,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,22),(1,8,11),(2,16,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,12),(2,15,22),(2,16,23)); lvl=4; h,r-ind=1,1
      [5,3]((2,15,22),(4,29,43),(1,7,11),(2,15,24),(1,8,12)); lvl=3; h,r-ind=1,1
        [4,3]((2,15,22),(4,30,45),(5,37,56),(3,22,33)); lvl=4; h,r-ind=1,1
          [3,3]((7,52,78),(5,37,56),(4,30,45)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,22),(7,52,78),(4,30,45)); lvl=5; h,r-ind=1,1
          [3,3]((3,22,33),(2,15,22),(7,52,78)); lvl=5; h,r-ind=1,1
          [3,3]((3,22,33),(7,52,78),(5,37,56)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,11),(5,37,56),(3,22,33)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,22),(4,29,43),(3,22,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,11),(4,29,43),(3,22,33)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,12),(2,15,23),(4,30,45),(5,37,56)); lvl=4; h,r-ind=1,1
          [3,3]((2,15,23),(5,37,56),(6,45,68)); lvl=5; h,r-ind=1,1
          [3,3]((4,30,45),(5,37,56),(6,45,68)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,12),(2,15,23),(6,45,68)); lvl=5; h,r-ind=1,1
          [3,3]((4,30,45),(1,8,12),(6,45,68)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,11),(2,15,23),(5,37,56)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,11),(2,15,23),(2,15,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,12),(2,15,23),(2,15,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,22),(1,8,12),(4,30,45)); lvl=4; h,r-ind=1,1
      [4,3]((2,12,21),(1,7,11),(1,6,12),(2,15,24)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((4,27,45),(1,7,11),(2,15,24),(1,7,12)); lvl=4; h,r-ind=1,3
          [3,3]((2,14,23),(1,7,11),(2,15,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,23),(1,7,12),(2,15,24)); lvl=5; h,r-ind=1,1
          [3,3]((4,27,45),(2,14,23),(1,7,12)); lvl=5; h,r-ind=1,1
          [3,3]((4,27,45),(2,14,23),(1,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(4,27,45),(1,7,12)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,6,12),(1,6,11),(1,7,12)); lvl=4; h,r-ind=1,1
        [4,3]((2,12,21),(1,6,11),(4,27,45),(1,7,11)); lvl=4; h,r-ind=1,3
          [3,3]((2,13,22),(4,27,45),(1,6,11)); lvl=5; h,r-ind=1,1
```

```
        [3,3]((2,12,21),(2,13,22),(1,6,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,11),(2,13,22),(4,27,45)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,21),(1,7,11),(2,13,22)); lvl=5; h,r-ind=1,1
    [5,3]((1,6,9),(1,7,10),(4,29,43),(2,12,21),(1,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,29,43),(2,14,21),(1,7,11)); lvl=4; h,r-ind=1,1
      [4,3]((5,34,52),(4,27,42),(2,14,21),(1,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,21),(1,7,11),(6,41,63)); lvl=5; h,r-ind=1,1
        [3,3]((4,27,42),(1,7,11),(6,41,63)); lvl=5; h,r-ind=1,1
        [3,3]((5,34,52),(4,27,42),(6,41,63)); lvl=5; h,r-ind=1,1
        [3,3]((5,34,52),(2,14,21),(6,41,63)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,10),(2,12,21),(4,27,42),(1,7,11)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,13,21),(1,7,11),(2,12,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(2,13,21),(2,12,21)); lvl=5; h,r-ind=1,1
        [3,3]((4,27,42),(2,13,21),(1,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(4,27,42),(2,13,21)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,10),(5,34,52),(4,27,41),(2,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,27,41),(5,34,52),(6,41,62)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,21),(5,34,52),(6,41,62)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(2,14,21),(6,41,62)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(4,27,41),(6,41,62)); lvl=5; h,r-ind=1,1
      [5,3]((1,6,10),(2,13,20),(5,34,52),(4,27,41),(4,27,42)); lvl=4; h,r-ind=1,1
        [3,3]((4,27,41),(3,20,31),(2,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(3,20,31),(2,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((4,27,41),(3,20,31),(5,34,52)); lvl=5; h,r-ind=1,1
        [3,3]((4,27,42),(3,20,31),(5,34,52)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(4,27,42),(3,20,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(1,6,10),(2,13,20)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,10),(1,6,9),(2,13,20),(4,27,41)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,9),(3,20,30),(2,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((4,27,41),(3,20,30),(2,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(4,27,41),(3,20,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(1,6,9),(3,20,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,10),(4,29,43),(2,14,21)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,10),(2,15,22),(4,29,43),(1,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,29,43),(3,22,32),(2,15,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,11),(3,22,32),(2,15,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,10),(1,8,11),(3,22,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,10),(4,29,43),(3,22,32)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,9),(2,7,14),(1,4,7),(1,6,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,7),(1,4,8),(2,7,14),(2,9,16)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,8,15),(1,4,8),(2,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,8,15),(2,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,16),(2,8,15),(1,4,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,9,16),(2,8,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,8),(4,19,33),(1,4,7),(2,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,33),(3,14,24),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,14,24),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(1,4,7),(3,14,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(4,19,33),(3,14,24)); lvl=4; h,r-ind=1,1
    [5,3]((2,9,18),(1,5,9),(4,19,33),(1,4,8),(2,9,16)); lvl=3; h,r-ind=1,1
      [4,3]((5,23,42),(3,14,25),(4,18,33),(2,9,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,33),(2,9,16),(7,32,58)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,25),(2,9,16),(7,32,58)); lvl=5; h,r-ind=1,1
        [3,3]((5,23,42),(3,14,25),(7,32,58)); lvl=5; h,r-ind=1,1
        [3,3]((5,23,42),(4,18,33),(7,32,58)); lvl=5; h,r-ind=1,1
      [3,3]((4,19,33),(3,14,25),(2,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(4,19,33),(3,14,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(5,23,42),(3,14,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(4,18,33),(2,9,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,8),(5,23,42),(4,18,33),(2,9,17)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,33),(5,23,42),(6,27,50)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,17),(5,23,42),(6,27,50)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(2,9,17),(6,27,50)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(4,18,33),(6,27,50)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,9),(5,23,42),(2,9,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,9,18),(2,9,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,18),(1,4,8),(2,9,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,12),(2,9,18),(2,12,21),(1,5,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,5,10),(4,21,39),(1,5,9),(2,9,18)); lvl=4; h,r-ind=1,3
        [3,3]((2,10,19),(1,5,9),(4,21,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(2,10,19),(4,21,39)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,18),(2,10,19),(1,5,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(2,9,18),(2,10,19)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,11),(4,21,39),(2,12,21),(1,5,9)); lvl=4; h,r-ind=1,3
        [3,3]((4,21,39),(1,5,9),(2,11,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,21),(1,5,9),(2,11,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(2,12,21),(2,11,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(4,21,39),(2,11,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(1,6,11),(4,21,39)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((1,5,10),(1,6,12),(1,6,11)); lvl=4; h,r-ind=1,1
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    [5,3]((1,6,9),(1,5,8),(2,12,21),(1,5,9),(4,19,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,17),(1,5,9),(4,19,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,10,17),(4,19,33)); lvl=4; h,r-ind=1,1
      [4,3]((5,26,44),(2,10,17),(4,21,36),(1,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(2,10,17),(6,31,53)); lvl=5; h,r-ind=1,1
        [3,3]((5,26,44),(2,10,17),(6,31,53)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,36),(5,26,44),(6,31,53)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,36),(1,5,9),(6,31,53)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,8),(4,21,35),(5,26,44),(2,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,35),(5,26,44),(6,31,52)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,17),(5,26,44),(6,31,52)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(4,21,35),(6,31,52)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,17),(1,5,8),(6,31,52)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,9),(2,11,18),(1,5,8),(4,21,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,18),(4,21,35),(3,16,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(4,21,35),(3,16,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,9),(2,11,18),(3,16,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(1,6,9),(3,16,26)); lvl=5; h,r-ind=1,1
      [5,3]((1,6,10),(2,11,18),(4,21,35),(5,26,44),(4,21,36)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,27),(4,21,35),(5,26,44)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,36),(3,16,27),(5,26,44)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(4,21,36),(3,16,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,18),(3,16,27),(4,21,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,18),(1,6,10),(3,16,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(1,6,10),(2,11,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,10),(4,21,36),(1,5,9),(2,12,21)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,11,19),(4,21,36),(1,5,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,21),(2,11,19),(1,5,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(2,12,21),(2,11,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(2,11,19),(4,21,36)); lvl=5; h,r-ind=1,1
  [4,3]((1,2,3),(1,1,2),(2,7,14),(1,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,7),(1,3,5),(2,5,10),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,10),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,10),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(1,3,6),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(1,3,5),(2,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(2,7,14),(1,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(1,3,5),(1,1,2),(2,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(2,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,12),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,12),(1,3,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(1,2,4),(1,1,2),(3,7,12)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,4,7),(1,1,2),(1,2,4)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,12),(2,4,7),(1,2,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(3,7,12),(2,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,7),(1,1,2)); lvl=5; h,r-ind=1,1
  [4,3]((1,6,7),(1,6,9),(1,8,11),(1,10,11)); lvl=2; h,r-ind=4,2; alert-r-inc
    [4,3]((1,9,11),(1,7,10),(2,15,19),(1,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,10),(2,15,19),(1,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,31),(1,7,10),(1,8,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,11),(1,8,11),(3,23,31),(1,8,10)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,16,21),(1,8,11),(3,23,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,21),(1,8,10),(3,23,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,11),(2,16,21),(1,8,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,11),(2,16,21),(1,8,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,11),(3,23,31),(1,7,10)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,9),(1,9,11),(1,10,11),(2,15,19)); lvl=3; h,r-ind=1,1
      [4,3]((1,9,10),(1,10,11),(1,8,10),(1,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,10,11),(1,9,11),(2,18,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,10),(1,9,11),(2,18,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,10),(1,8,10),(2,18,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,10),(1,10,11),(2,18,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,9),(1,9,10),(1,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,19),(1,8,9),(1,8,10)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,9),(1,7,10),(1,6,8),(2,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(1,7,10),(2,15,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(3,20,28),(1,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(3,20,28),(1,7,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,9),(1,7,9),(1,6,8),(3,20,28)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,7,9),(1,6,8),(2,13,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,9),(1,6,8),(2,13,18)); lvl=5; h,r-ind=1,1
        [3,3]((3,20,28),(1,7,9),(2,13,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,9),(3,20,28),(2,13,18)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,7),(1,8,9),(1,6,8),(2,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(2,15,19),(1,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(1,7,9),(1,8,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,7),(1,7,8),(1,7,9),(1,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(1,7,9),(2,13,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(1,7,9),(2,13,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(1,7,8),(2,13,16)); lvl=5; h,r-ind=1,1
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      [3,3]((1,6,8),(1,6,7),(2,13,16)); lvl=5; h,r-ind=1,1
[4,3]((1,2,3),(1,6,7),(1,6,9),(1,4,7)); lvl=2; h,r-ind=4,2; alert-r-inc
  [4,3]((1,6,8),(2,9,13),(1,5,8),(1,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(1,5,8),(3,16,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(1,5,8),(3,16,24)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,9),(1,6,8),(1,5,7),(3,16,24)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,11,16),(1,5,7),(1,6,8)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(2,11,16),(1,6,8)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,16),(3,16,24),(1,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(2,11,16),(3,16,24)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,13),(1,5,8)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,7),(1,6,8),(1,4,5),(2,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(1,5,7),(2,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(1,5,6),(1,5,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,7),(1,5,6),(1,6,8),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,7),(2,11,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(1,5,7),(2,11,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,8),(2,11,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(1,5,6),(2,11,14)); lvl=5; h,r-ind=1,1
  [4,3]((1,2,3),(1,3,5),(1,4,5),(2,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,6),(2,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(1,3,4),(1,4,6)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(1,3,4),(1,3,5),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,6),(2,6,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(1,4,6),(2,6,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(2,6,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,3),(2,6,9)); lvl=5; h,r-ind=1,1
  [4,3]((1,4,7),(1,3,5),(2,9,13),(1,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(1,4,6),(2,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((3,13,21),(1,5,8),(1,4,6)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,7),(3,13,21),(1,3,5),(1,4,6)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,8,13),(3,13,21),(1,4,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(2,8,13),(1,4,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,7),(1,3,5),(2,8,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,7),(2,8,13),(3,13,21)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,7),(3,13,21),(1,5,8)); lvl=4; h,r-ind=1,1
[4,3]((2,12,13),(1,6,7),(2,22,23),(1,10,11)); lvl=2; h,r-ind=2,1
  [4,3]((2,22,23),(2,17,18),(1,10,11),(1,8,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,17,18),(4,39,41),(1,8,9),(1,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,19,20),(4,39,41),(1,9,10)); lvl=5; h,r-ind=1,1
      [4,3]((4,37,39),(5,44,48),(2,19,20),(1,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,10),(3,27,29),(5,44,48)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,10),(6,55,59),(3,27,29)); lvl=6; h,r-ind=1,1
        [4,3]((2,19,20),(4,37,39),(6,55,59),(3,27,29)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((3,27,29),(5,46,49),(4,37,39)); lvl=7; h,r-ind=1,1
          [3,3]((2,19,20),(5,46,49),(4,37,39)); lvl=7; h,r-ind=1,1
          [3,3]((6,55,59),(3,27,29),(5,46,49)); lvl=7; h,r-ind=1,1
          [3,3]((2,19,20),(6,55,59),(5,46,49)); lvl=7; h,r-ind=1,1
        [3,3]((2,19,20),(1,9,10),(6,55,59)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,9),(5,44,48),(1,9,10)); lvl=5; h,r-ind=1,1
      [4,3]((2,17,18),(4,37,39),(1,8,9),(5,44,48)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,8,9),(3,27,29),(5,44,48),(7,61,66)); lvl=6; h,r-ind=1,3
          [3,3]((4,35,38),(3,27,29),(5,44,48)); lvl=7; h,r-ind=1,1
          [3,3]((1,8,9),(4,35,38),(5,44,48)); lvl=7; h,r-ind=1,1
          [3,3]((7,61,66),(4,35,38),(3,27,29)); lvl=7; h,r-ind=1,1
          [3,3]((1,8,9),(7,61,66),(4,35,38)); lvl=7; h,r-ind=1,1
        [4,3]((2,18,19),(2,17,18),(1,8,9),(7,61,66)); lvl=6; h,r-ind=1,3
          [3,3]((1,8,9),(3,26,28),(2,17,18)); lvl=7; h,r-ind=1,1
          [3,3]((2,18,19),(3,26,28),(2,17,18)); lvl=7; h,r-ind=1,1
          [3,3]((7,61,66),(2,18,19),(3,26,28)); lvl=7; h,r-ind=1,1
          [3,3]((7,61,66),(1,8,9),(3,26,28)); lvl=7; h,r-ind=1,1
        [3,3]((2,18,19),(3,27,29),(7,61,66)); lvl=6; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,18,19),(4,37,39),(3,27,29)); lvl=6; h,r-ind=1,1
    [4,3]((2,22,23),(1,10,11),(4,39,41),(1,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,10,11),(1,9,10),(5,49,53)); lvl=5; h,r-ind=1,1
      [4,3]((2,20,21),(4,41,43),(1,9,10),(5,49,53)); lvl=5; h,r-ind=1,1
        [4,3]((2,20,21),(6,59,63),(3,30,32),(4,41,43)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((5,50,53),(6,59,63),(3,30,32)); lvl=7; h,r-ind=1,1
          [3,3]((4,41,43),(5,50,53),(3,30,32)); lvl=7; h,r-ind=1,1
          [3,3]((2,20,21),(4,41,43),(5,50,53)); lvl=7; h,r-ind=1,1
          [3,3]((2,20,21),(5,50,53),(6,59,63)); lvl=7; h,r-ind=1,1
        [3,3]((1,9,10),(2,20,21),(6,59,63)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,10),(6,59,63),(3,30,32)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,10),(5,49,53),(3,30,32)); lvl=6; h,r-ind=1,1
      [3,3]((4,39,41),(2,20,21),(1,9,10)); lvl=5; h,r-ind=1,1
      [4,3]((2,22,23),(4,41,43),(1,10,11),(5,49,53)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,10,11),(7,71,76),(5,49,53),(3,30,32)); lvl=6; h,r-ind=1,3
          [3,3]((7,71,76),(4,40,43),(3,30,32)); lvl=7; h,r-ind=1,1
          [3,3]((5,49,53),(4,40,43),(3,30,32)); lvl=7; h,r-ind=1,1
          [3,3]((1,10,11),(7,71,76),(4,40,43)); lvl=7; h,r-ind=1,1
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            [3,3]((5,49,53),(1,10,11),(4,40,43)); lvl=7; h,r-ind=1,1
          [3,3]((2,21,22),(7,71,76),(3,30,32)); lvl=6; h,r-ind=2,4; alert-r-inc; optimized-h
          [3,3]((2,21,22),(4,41,43),(3,30,32)); lvl=6; h,r-ind=1,1
          [4,3]((1,10,11),(2,22,23),(2,21,22),(7,71,76)); lvl=6; h,r-ind=1,3
            [3,3]((2,22,23),(3,31,33),(2,21,22)); lvl=7; h,r-ind=1,1
            [3,3]((7,71,76),(3,31,33),(2,21,22)); lvl=7; h,r-ind=1,1
            [3,3]((1,10,11),(7,71,76),(3,31,33)); lvl=7; h,r-ind=1,1
            [3,3]((1,10,11),(2,22,23),(3,31,33)); lvl=7; h,r-ind=1,1
  [4,3]((2,12,13),(2,17,18),(1,6,7),(1,8,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,17,18),(4,29,31),(1,8,9),(1,7,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,8),(2,15,16),(4,31,33),(5,38,42)); lvl=5; h,r-ind=1,1
        [4,3]((3,23,25),(2,15,16),(4,31,33),(6,45,49)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((5,38,41),(2,15,16),(4,31,33)); lvl=7; h,r-ind=1,1
          [3,3]((3,23,25),(5,38,41),(4,31,33)); lvl=7; h,r-ind=1,1
          [3,3]((6,45,49),(5,38,41),(2,15,16)); lvl=7; h,r-ind=1,1
          [3,3]((3,23,25),(6,45,49),(5,38,41)); lvl=7; h,r-ind=1,1
        [3,3]((1,7,8),(3,23,25),(6,45,49)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,8),(3,23,25),(5,38,42)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,8),(2,15,16),(6,45,49)); lvl=6; h,r-ind=1,1
      [4,3]((1,8,9),(2,17,18),(4,31,33),(5,38,42)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,8,9),(7,55,60),(2,16,17),(2,17,18)); lvl=6; h,r-ind=1,3
          [3,3]((2,16,17),(3,24,26),(7,55,60)); lvl=7; h,r-ind=1,1
          [3,3]((1,8,9),(3,24,26),(7,55,60)); lvl=7; h,r-ind=1,1
          [3,3]((2,17,18),(1,8,9),(3,24,26)); lvl=7; h,r-ind=1,1
          [3,3]((2,17,18),(2,16,17),(3,24,26)); lvl=7; h,r-ind=1,1
        [3,3]((7,55,60),(3,23,25),(2,16,17)); lvl=6; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,23,25),(4,31,33),(2,16,17)); lvl=6; h,r-ind=1,1
        [4,3]((1,8,9),(7,55,60),(3,23,25),(5,38,42)); lvl=6; h,r-ind=1,3
          [3,3]((4,31,34),(7,55,60),(3,23,25)); lvl=7; h,r-ind=1,1
          [3,3]((5,38,42),(4,31,34),(3,23,25)); lvl=7; h,r-ind=1,1
          [3,3]((1,8,9),(5,38,42),(4,31,34)); lvl=7; h,r-ind=1,1
          [3,3]((1,8,9),(4,31,34),(7,55,60)); lvl=7; h,r-ind=1,1
      [3,3]((1,8,9),(1,7,8),(5,38,42)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,8),(4,29,31),(2,15,16)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,7),(2,12,13),(4,29,31),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(2,14,15),(4,29,31)); lvl=5; h,r-ind=1,1
      [4,3]((5,33,37),(1,7,8),(2,14,15),(4,27,29)); lvl=5; h,r-ind=1,1
        [3,3]((6,41,45),(1,7,8),(2,14,15)); lvl=6; h,r-ind=1,1
        [4,3]((4,27,29),(3,20,22),(6,41,45),(2,14,15)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((5,34,37),(3,20,22),(6,41,45)); lvl=7; h,r-ind=1,1
          [3,3]((5,34,37),(2,14,15),(6,41,45)); lvl=7; h,r-ind=1,1
          [3,3]((4,27,29),(5,34,37),(2,14,15)); lvl=7; h,r-ind=1,1
          [3,3]((4,27,29),(5,34,37),(3,20,22)); lvl=7; h,r-ind=1,1
        [3,3]((3,20,22),(6,41,45),(1,7,8)); lvl=6; h,r-ind=1,1
        [3,3]((5,33,37),(3,20,22),(1,7,8)); lvl=6; h,r-ind=1,1
      [3,3]((1,6,7),(5,33,37),(1,7,8)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,7),(5,33,37),(2,12,13),(4,27,29)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,13,14),(3,20,22),(4,27,29)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,14),(7,45,50),(3,20,22)); lvl=6; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,6,7),(5,33,37),(7,45,50),(3,20,22)); lvl=6; h,r-ind=1,3
          [3,3]((4,26,29),(5,33,37),(3,20,22)); lvl=7; h,r-ind=1,1
          [3,3]((7,45,50),(4,26,29),(3,20,22)); lvl=7; h,r-ind=1,1
          [3,3]((1,6,7),(7,45,50),(4,26,29)); lvl=7; h,r-ind=1,1
          [3,3]((1,6,7),(4,26,29),(5,33,37)); lvl=7; h,r-ind=1,1
        [4,3]((1,6,7),(2,12,13),(2,13,14),(7,45,50)); lvl=6; h,r-ind=1,3
          [3,3]((3,19,21),(2,13,14),(2,12,13)); lvl=7; h,r-ind=1,1
          [3,3]((1,6,7),(3,19,21),(2,12,13)); lvl=7; h,r-ind=1,1
          [3,3]((7,45,50),(3,19,21),(2,13,14)); lvl=7; h,r-ind=1,1
          [3,3]((1,6,7),(7,45,50),(3,19,21)); lvl=7; h,r-ind=1,1
[4,3]((2,2,3),(2,12,13),(1,2,3),(1,6,7)); lvl=2; h,r-ind=2,1
  [4,3]((2,7,8),(1,4,5),(1,6,7),(2,12,13)); lvl=3; h,r-ind=1,1
    [4,3]((4,19,21),(2,12,13),(1,5,6),(1,6,7)); lvl=4; h,r-ind=1,1
      [4,3]((2,12,13),(4,21,23),(1,6,7),(5,27,31)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((7,39,44),(1,6,7),(3,16,18),(5,27,31)); lvl=6; h,r-ind=1,3
          [3,3]((1,6,7),(4,22,25),(5,27,31)); lvl=7; h,r-ind=1,1
          [3,3]((3,16,18),(4,22,25),(5,27,31)); lvl=7; h,r-ind=1,1
          [3,3]((7,39,44),(1,6,7),(4,22,25)); lvl=7; h,r-ind=1,1
          [3,3]((3,16,18),(7,39,44),(4,22,25)); lvl=7; h,r-ind=1,1
        [3,3]((2,11,12),(7,39,44),(3,16,18)); lvl=6; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,11,12),(4,21,23),(3,16,18)); lvl=6; h,r-ind=1,1
        [4,3]((2,11,12),(2,12,13),(7,39,44),(1,6,7)); lvl=6; h,r-ind=1,3
          [3,3]((2,12,13),(3,17,19),(1,6,7)); lvl=7; h,r-ind=1,1
          [3,3]((7,39,44),(3,17,19),(1,6,7)); lvl=7; h,r-ind=1,1
          [3,3]((2,11,12),(7,39,44),(3,17,19)); lvl=7; h,r-ind=1,1
          [3,3]((2,11,12),(2,12,13),(3,17,19)); lvl=7; h,r-ind=1,1
      [3,3]((1,5,6),(1,6,7),(5,27,31)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,6),(2,10,11),(4,21,23),(5,27,31)); lvl=5; h,r-ind=1,1
        [4,3]((6,31,35),(2,10,11),(3,16,18),(4,21,23)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((5,26,29),(4,21,23),(2,10,11)); lvl=7; h,r-ind=1,1
          [3,3]((6,31,35),(5,26,29),(2,10,11)); lvl=7; h,r-ind=1,1
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          [3,3]((3,16,18),(6,31,35),(5,26,29)); lvl=7; h,r-ind=1,1
          [3,3]((3,16,18),(5,26,29),(4,21,23)); lvl=7; h,r-ind=1,1
        [3,3]((1,5,6),(6,31,35),(3,16,18)); lvl=6; h,r-ind=1,1
        [3,3]((5,27,31),(1,5,6),(3,16,18)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,6),(6,31,35),(2,10,11)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,6),(4,19,21),(2,10,11)); lvl=5; h,r-ind=1,1
    [4,3]((2,7,8),(4,19,21),(1,4,5),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,10),(4,19,21),(1,5,6)); lvl=5; h,r-ind=1,1
      [4,3]((4,17,19),(5,22,26),(2,9,10),(1,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(3,13,15),(5,22,26)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,6),(3,13,15),(6,27,31)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,10),(1,5,6),(6,27,31)); lvl=6; h,r-ind=1,1
        [4,3]((2,9,10),(4,17,19),(3,13,15),(6,27,31)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((5,22,25),(4,17,19),(3,13,15)); lvl=7; h,r-ind=1,1
          [3,3]((6,27,31),(5,22,25),(3,13,15)); lvl=7; h,r-ind=1,1
          [3,3]((2,9,10),(6,27,31),(5,22,25)); lvl=7; h,r-ind=1,1
          [3,3]((2,9,10),(5,22,25),(4,17,19)); lvl=7; h,r-ind=1,1
      [3,3]((1,4,5),(5,22,26),(1,5,6)); lvl=5; h,r-ind=1,1
      [4,3]((2,7,8),(4,17,19),(1,4,5),(5,22,26)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,4,5),(7,29,34),(3,13,15),(5,22,26)); lvl=6; h,r-ind=1,3
          [3,3]((4,17,20),(3,13,15),(7,29,34)); lvl=7; h,r-ind=1,1
          [3,3]((1,4,5),(4,17,20),(7,29,34)); lvl=7; h,r-ind=1,1
          [3,3]((5,22,26),(4,17,20),(3,13,15)); lvl=7; h,r-ind=1,1
          [3,3]((1,4,5),(5,22,26),(4,17,20)); lvl=7; h,r-ind=1,1
        [3,3]((7,29,34),(2,8,9),(3,13,15)); lvl=6; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,4,5),(2,7,8),(7,29,34),(2,8,9)); lvl=6; h,r-ind=1,3
          [3,3]((3,12,14),(2,8,9),(2,7,8)); lvl=7; h,r-ind=1,1
          [3,3]((1,4,5),(3,12,14),(2,7,8)); lvl=7; h,r-ind=1,1
          [3,3]((7,29,34),(3,12,14),(2,8,9)); lvl=7; h,r-ind=1,1
          [3,3]((1,4,5),(7,29,34),(3,12,14)); lvl=7; h,r-ind=1,1
        [3,3]((2,8,9),(3,13,15),(4,17,19)); lvl=6; h,r-ind=1,1
  [4,3]((2,2,3),(2,7,8),(1,2,3),(1,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((4,9,11),(1,3,4),(1,4,5),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,4),(5,16,20)); lvl=5; h,r-ind=1,1
      [4,3]((4,11,13),(2,5,6),(1,3,4),(5,16,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,6),(6,17,21)); lvl=6; h,r-ind=1,1
        [4,3]((4,11,13),(3,9,11),(2,5,6),(6,17,21)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((3,9,11),(6,17,21),(5,14,17)); lvl=7; h,r-ind=1,1
          [3,3]((2,5,6),(6,17,21),(5,14,17)); lvl=7; h,r-ind=1,1
          [3,3]((4,11,13),(3,9,11),(5,14,17)); lvl=7; h,r-ind=1,1
          [3,3]((2,5,6),(4,11,13),(5,14,17)); lvl=7; h,r-ind=1,1
        [3,3]((3,9,11),(1,3,4),(6,17,21)); lvl=6; h,r-ind=1,1
        [3,3]((5,16,20),(3,9,11),(1,3,4)); lvl=6; h,r-ind=1,1
      [3,3]((2,5,6),(4,9,11),(1,3,4)); lvl=5; h,r-ind=1,1
      [4,3]((2,7,8),(4,11,13),(1,4,5),(5,16,20)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,4,5),(5,16,20),(3,9,11),(7,23,28)); lvl=6; h,r-ind=1,3
          [3,3]((3,9,11),(5,16,20),(4,13,16)); lvl=7; h,r-ind=1,1
          [3,3]((1,4,5),(5,16,20),(4,13,16)); lvl=7; h,r-ind=1,1
          [3,3]((7,23,28),(3,9,11),(4,13,16)); lvl=7; h,r-ind=1,1
          [3,3]((1,4,5),(7,23,28),(4,13,16)); lvl=7; h,r-ind=1,1
        [3,3]((2,6,7),(3,9,11),(7,23,28)); lvl=6; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,4,5),(2,7,8),(2,6,7),(7,23,28)); lvl=6; h,r-ind=1,3
          [3,3]((3,10,12),(2,7,8),(2,6,7)); lvl=7; h,r-ind=1,1
          [3,3]((7,23,28),(3,10,12),(2,6,7)); lvl=7; h,r-ind=1,1
          [3,3]((1,4,5),(7,23,28),(3,10,12)); lvl=7; h,r-ind=1,1
          [3,3]((1,4,5),(3,10,12),(2,7,8)); lvl=7; h,r-ind=1,1
        [3,3]((2,6,7),(4,11,13),(3,9,11)); lvl=6; h,r-ind=1,1
  [4,3]((2,2,3),(4,9,11),(1,3,4),(1,2,3)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,5),(4,9,11),(1,3,4)); lvl=5; h,r-ind=1,1
    [4,3]((4,7,9),(2,4,5),(5,11,15),(1,3,4)); lvl=5; h,r-ind=1,1
      [3,3]((6,13,17),(1,3,4),(2,4,5)); lvl=6; h,r-ind=1,1
      [4,3]((4,7,9),(6,13,17),(3,6,8),(2,4,5)); lvl=6; h,r-ind=1,2; alert-r-inc
        [3,3]((3,6,8),(5,10,13),(6,13,17)); lvl=7; h,r-ind=1,1
        [3,3]((2,4,5),(5,10,13),(6,13,17)); lvl=7; h,r-ind=1,1
        [3,3]((4,7,9),(3,6,8),(5,10,13)); lvl=7; h,r-ind=1,1
        [3,3]((2,4,5),(4,7,9),(5,10,13)); lvl=7; h,r-ind=1,1
      [3,3]((6,13,17),(3,6,8),(1,3,4)); lvl=6; h,r-ind=1,1
      [3,3]((5,11,15),(3,6,8),(1,3,4)); lvl=6; h,r-ind=1,1
    [3,3]((1,2,3),(5,11,15),(1,3,4)); lvl=5; h,r-ind=1,1
    [4,3]((2,2,3),(4,7,9),(1,2,3),(5,11,15)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,2,3),(7,13,18),(5,11,15),(3,6,8)); lvl=6; h,r-ind=1,3
        [3,3]((7,13,18),(4,8,11),(3,6,8)); lvl=7; h,r-ind=1,1
        [3,3]((5,11,15),(4,8,11),(3,6,8)); lvl=7; h,r-ind=1,1
        [3,3]((1,2,3),(5,11,15),(4,8,11)); lvl=7; h,r-ind=1,1
        [3,3]((1,2,3),(7,13,18),(4,8,11)); lvl=7; h,r-ind=1,1
      [3,3]((2,3,4),(7,13,18),(3,6,8)); lvl=6; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,3,4),(4,7,9),(3,6,8)); lvl=6; h,r-ind=1,1
      [4,3]((1,2,3),(2,2,3),(2,3,4),(7,13,18)); lvl=6; h,r-ind=1,3
        [3,3]((3,5,7),(2,3,4),(2,2,3)); lvl=7; h,r-ind=1,1
        [3,3]((1,2,3),(3,5,7),(2,2,3)); lvl=7; h,r-ind=1,1
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            [3,3]((7,13,18),(3,5,7),(2,3,4)); lvl=7; h,r-ind=1,1
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  [3,3]((2,2,3),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
[3,3]((1,11,23),(1,1,2),(1,6,12)); lvl=1; h,r-ind=5,5; optimized-h
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[3,3]((1,11,23),(1,11,12),(1,6,12)); lvl=1; h,r-ind=55,55; alert-h-inc
  [4,3]((2,22,35),(2,17,30),(2,17,34),(1,11,23)); lvl=2; h,r-ind=5,5
    [4,3]((1,9,17),(2,17,34),(1,9,18),(2,17,32)); lvl=3; h,r-ind=1,1
      [4,3]((1,9,18),(4,35,68),(2,17,33),(2,17,34)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,35,68),(3,26,51),(2,17,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,34),(3,26,51),(2,17,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,18),(2,17,34),(3,26,51)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,18),(4,35,68),(3,26,51)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,17),(1,9,18),(4,35,68)); lvl=4; h,r-ind=1,1
      [4,3]((2,17,32),(1,9,17),(4,35,68),(2,17,33)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,26,50),(1,9,17),(4,35,68)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,33),(3,26,50),(4,35,68)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,32),(2,17,33),(3,26,50)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,32),(3,26,50),(1,9,17)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,17),(1,9,16),(2,17,30),(2,17,32)); lvl=3; h,r-ind=1,1
      [4,3]((1,9,16),(4,35,64),(2,17,30),(2,17,31)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,26,47),(2,17,30),(2,17,31)); lvl=5; h,r-ind=1,1
        [3,3]((4,35,64),(3,26,47),(2,17,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,16),(4,35,64),(3,26,47)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,16),(3,26,47),(2,17,30)); lvl=5; h,r-ind=1,1
      [4,3]((2,17,32),(1,9,17),(4,35,64),(2,17,31)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,26,48),(4,35,64),(1,9,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,32),(3,26,48),(1,9,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,31),(2,17,32),(3,26,48)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,31),(3,26,48),(4,35,64)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,17),(1,9,16),(4,35,64)); lvl=4; h,r-ind=1,1
    [4,3]((4,39,65),(2,19,33),(1,9,16),(2,17,30)); lvl=3; h,r-ind=1,1
      [4,3]((5,47,81),(9,84,145),(1,9,16),(2,19,33)); lvl=4; h,r-ind=1,1
        [3,3]((6,56,97),(1,9,16),(9,84,145)); lvl=5; h,r-ind=1,1
        [3,3]((5,47,81),(6,56,97),(9,84,145)); lvl=5; h,r-ind=1,1
        [3,3]((5,47,81),(2,19,33),(6,56,97)); lvl=5; h,r-ind=1,1
        [3,3]((2,19,33),(6,56,97),(1,9,16)); lvl=5; h,r-ind=1,1
      [3,3]((3,29,49),(5,47,81),(2,19,33)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [5,3]((3,29,49),(2,19,32),(3,28,48),(5,47,81),(9,84,145)); lvl=4; h,r-ind=1,1
        [3,3]((9,84,145),(3,28,48),(8,75,129)); lvl=5; h,r-ind=1,1
        [4,3]((12,113,193),(7,66,113),(3,28,48),(8,75,129)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((7,66,113),(10,94,161),(8,75,129)); lvl=6; h,r-ind=1,1
          [3,3]((3,28,48),(10,94,161),(8,75,129)); lvl=6; h,r-ind=1,1
          [3,3]((12,113,193),(7,66,113),(10,94,161)); lvl=6; h,r-ind=1,1
          [3,3]((3,28,48),(12,113,193),(10,94,161)); lvl=6; h,r-ind=1,1
        [3,3]((12,113,193),(2,19,32),(3,28,48)); lvl=5; h,r-ind=1,1
        [5,3]((3,29,49),(4,38,65),(12,113,193),(7,66,113),(2,19,32)); lvl=5; h,r-ind=1,1
          [4,3]((7,66,113),(13,123,210),(9,85,145),(15,142,242)); lvl=6; h,r-ind=1,1
            [3,3]((22,208,355),(15,142,242),(13,123,210)); lvl=7; h,r-ind=1,1
            [3,3]((7,66,113),(22,208,355),(13,123,210)); lvl=7; h,r-ind=1,1
            [3,3]((9,85,145),(22,208,355),(15,142,242)); lvl=7; h,r-ind=1,1
            [3,3]((7,66,113),(9,85,145),(22,208,355)); lvl=7; h,r-ind=1,1
          [3,3]((2,19,32),(9,85,145),(15,142,242)); lvl=6; h,r-ind=1,1
          [3,3]((6,57,97),(2,19,32),(15,142,242)); lvl=6; h,r-ind=1,1
          [3,3]((3,29,49),(6,57,97),(2,19,32)); lvl=6; h,r-ind=1,1
          [4,3]((6,57,97),(4,38,65),(13,123,210),(15,142,242)); lvl=6; h,r-ind=1,1
            [3,3]((19,180,307),(13,123,210),(4,38,65)); lvl=7; h,r-ind=1,1
            [3,3]((6,57,97),(19,180,307),(4,38,65)); lvl=7; h,r-ind=1,1
            [3,3]((15,142,242),(6,57,97),(19,180,307)); lvl=7; h,r-ind=1,1
            [3,3]((15,142,242),(19,180,307),(13,123,210)); lvl=7; h,r-ind=1,1
          [3,3]((3,29,49),(6,57,97),(4,38,65)); lvl=6; h,r-ind=1,1
          [3,3]((7,66,113),(4,38,65),(13,123,210)); lvl=6; h,r-ind=1,1
          [3,3]((7,66,113),(12,113,193),(9,85,145)); lvl=6; h,r-ind=1,1
          [3,3]((2,19,32),(12,113,193),(9,85,145)); lvl=6; h,r-ind=1,1
        [3,3]((5,47,81),(9,84,145),(8,75,129)); lvl=5; h,r-ind=1,1
        [4,3]((4,38,65),(7,66,113),(5,47,81),(8,75,129)); lvl=5; h,r-ind=1,1
          [3,3]((8,75,129),(7,66,113),(12,113,194)); lvl=6; h,r-ind=1,1
          [3,3]((4,38,65),(7,66,113),(12,113,194)); lvl=6; h,r-ind=1,1
          [3,3]((5,47,81),(4,38,65),(12,113,194)); lvl=6; h,r-ind=1,1
          [3,3]((5,47,81),(8,75,129),(12,113,194)); lvl=6; h,r-ind=1,1
      [3,3]((3,29,49),(2,19,32),(4,39,65)); lvl=4; h,r-ind=1,1
      [5,3]((2,17,30),(3,28,48),(4,37,63),(9,84,145),(1,9,16)); lvl=4; h,r-ind=1,1
        [4,3]((1,9,16),(7,64,111),(2,18,31),(2,17,30)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((2,18,31),(3,27,47),(7,64,111)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,16),(3,27,47),(7,64,111)); lvl=6; h,r-ind=1,1
          [3,3]((2,17,30),(2,18,31),(3,27,47)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,16),(2,17,30),(3,27,47)); lvl=6; h,r-ind=1,1
        [4,3]((1,9,16),(4,37,64),(10,92,159),(7,64,111)); lvl=5; h,r-ind=1,1
          [3,3]((4,37,64),(10,92,159),(11,101,175)); lvl=6; h,r-ind=1,1
          [3,3]((7,64,111),(10,92,159),(11,101,175)); lvl=6; h,r-ind=1,1
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      [3,3]((1,9,16),(4,37,64),(11,101,175)); lvl=6; h,r-ind=1,1
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    [3,3]((1,9,16),(9,84,145),(4,37,64)); lvl=5; h,r-ind=1,1
    [5,3]((10,92,159),(7,64,111),(9,83,143),(2,18,31),(5,46,79)); lvl=5; h,r-ind=1,1
      [3,3]((6,55,95),(5,46,79),(9,83,143)); lvl=6; h,r-ind=1,1
      [3,3]((10,92,159),(6,55,95),(9,83,143)); lvl=6; h,r-ind=1,1
      [3,3]((10,92,159),(7,64,111),(6,55,95)); lvl=6; h,r-ind=1,1
      [3,3]((6,55,95),(2,18,31),(5,46,79)); lvl=6; h,r-ind=1,1
      [3,3]((7,64,111),(6,55,95),(2,18,31)); lvl=6; h,r-ind=1,1
    [3,3]((4,37,63),(2,18,31),(5,46,79)); lvl=5; h,r-ind=1,1
    [4,3]((3,28,48),(9,83,143),(4,37,63),(5,46,79)); lvl=5; h,r-ind=1,1
      [3,3]((8,74,127),(9,83,143),(5,46,79)); lvl=6; h,r-ind=1,1
      [3,3]((4,37,63),(8,74,127),(5,46,79)); lvl=6; h,r-ind=1,1
      [3,3]((3,28,48),(4,37,63),(8,74,127)); lvl=6; h,r-ind=1,1
      [3,3]((3,28,48),(8,74,127),(9,83,143)); lvl=6; h,r-ind=1,1
    [4,3]((3,28,48),(4,37,64),(10,92,159),(9,83,143)); lvl=5; h,r-ind=1,1
      [3,3]((13,120,207),(10,92,159),(4,37,64)); lvl=6; h,r-ind=1,1
      [3,3]((3,28,48),(13,120,207),(4,37,64)); lvl=6; h,r-ind=1,1
      [3,3]((9,83,143),(13,120,207),(10,92,159)); lvl=6; h,r-ind=1,1
      [3,3]((3,28,48),(9,83,143),(13,120,207)); lvl=6; h,r-ind=1,1
    [3,3]((3,28,48),(9,84,145),(4,37,64)); lvl=5; h,r-ind=1,1
  [3,3]((2,19,32),(3,28,48),(4,37,63)); lvl=4; h,r-ind=1,1
[4,3]((1,9,17),(4,38,71),(2,19,38),(1,9,18)); lvl=3; h,r-ind=1,1
  [4,3]((1,9,17),(5,46,89),(2,19,36),(4,38,73)); lvl=4; h,r-ind=1,1
    [4,3]((3,28,54),(6,56,107),(2,19,36),(4,38,73)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((6,56,107),(5,47,90),(2,19,36)); lvl=6; h,r-ind=1,1
      [3,3]((4,38,73),(5,47,90),(2,19,36)); lvl=6; h,r-ind=1,1
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  [4,3]((1,9,18),(5,46,89),(2,19,38),(4,38,73)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [3,3]((2,19,37),(3,28,54),(7,65,127)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
    [4,3]((1,9,18),(2,19,38),(2,19,37),(7,65,127)); lvl=5; h,r-ind=1,3
      [3,3]((2,19,37),(2,19,38),(3,28,55)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,18),(2,19,38),(3,28,55)); lvl=6; h,r-ind=1,1
      [3,3]((7,65,127),(2,19,37),(3,28,55)); lvl=6; h,r-ind=1,1
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    [4,3]((1,9,18),(5,46,89),(3,28,54),(7,65,127)); lvl=5; h,r-ind=1,3
      [3,3]((4,37,72),(3,28,54),(5,46,89)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,18),(4,37,72),(5,46,89)); lvl=6; h,r-ind=1,1
      [3,3]((4,37,72),(7,65,127),(3,28,54)); lvl=6; h,r-ind=1,1
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    [3,3]((2,19,37),(3,28,54),(4,38,73)); lvl=5; h,r-ind=1,1
  [3,3]((1,9,17),(1,9,18),(5,46,89)); lvl=4; h,r-ind=1,1
  [3,3]((1,9,17),(4,38,71),(2,19,36)); lvl=4; h,r-ind=1,1
[3,3]((1,11,23),(2,19,38),(1,9,18)); lvl=3; h,r-ind=1,1
[4,3]((1,11,23),(1,11,20),(4,38,71),(2,19,38)); lvl=3; h,r-ind=3,3
  [4,3]((2,19,36),(4,38,71),(5,49,91),(1,10,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,10,19),(3,29,54),(5,49,91)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,19),(3,29,54),(6,58,109)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,19),(2,19,36),(6,58,109)); lvl=5; h,r-ind=1,1
    [4,3]((2,19,36),(4,38,71),(3,29,54),(6,58,109)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((4,38,71),(5,48,90),(3,29,54)); lvl=6; h,r-ind=1,1
      [3,3]((6,58,109),(5,48,90),(3,29,54)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,36),(6,58,109),(5,48,90)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,36),(4,38,71),(5,48,90)); lvl=6; h,r-ind=1,1
  [3,3]((1,11,20),(5,49,91),(1,10,19)); lvl=4; h,r-ind=3,3; optimized-h
  [4,3]((2,20,39),(2,19,36),(4,38,73),(1,10,19)); lvl=4; h,r-ind=1,1
    [4,3]((4,38,73),(3,29,56),(2,19,36),(6,58,111)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,29,56),(6,58,111),(5,48,92)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,36),(6,58,111),(5,48,92)); lvl=6; h,r-ind=1,1
      [3,3]((4,38,73),(3,29,56),(5,48,92)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,36),(4,38,73),(5,48,92)); lvl=6; h,r-ind=1,1
    [3,3]((1,10,19),(2,19,36),(6,58,111)); lvl=5; h,r-ind=1,1
    [4,3]((1,10,19),(2,20,39),(3,29,56),(6,58,111)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,20,39),(4,39,75),(3,29,56)); lvl=6; h,r-ind=1,1
      [3,3]((6,58,111),(4,39,75),(3,29,56)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,19),(6,58,111),(4,39,75)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,19),(2,20,39),(4,39,75)); lvl=6; h,r-ind=1,1
  [4,3]((1,11,20),(2,22,43),(2,20,39),(1,10,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,21,41),(3,31,60),(2,20,39)); lvl=5; h,r-ind=1,1
    [4,3]((1,10,19),(5,52,100),(3,31,60),(2,20,39)); lvl=5; h,r-ind=1,1
      [3,3]((4,41,79),(5,52,100),(3,31,60)); lvl=6; h,r-ind=1,1
      [3,3]((2,20,39),(4,41,79),(3,31,60)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,19),(2,20,39),(4,41,79)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,19),(4,41,79),(5,52,100)); lvl=6; h,r-ind=1,1
    [4,3]((1,11,21),(5,52,100),(2,21,41),(3,31,60)); lvl=5; h,r-ind=1,1
      [3,3]((5,52,100),(4,42,81),(3,31,60)); lvl=6; h,r-ind=1,1
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        [3,3]((2,21,41),(4,42,81),(3,31,60)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,21),(5,52,100),(4,42,81)); lvl=6; h,r-ind=1,1
        [3,3]((2,21,41),(1,11,21),(4,42,81)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,21),(2,22,43),(2,21,41)); lvl=5; h,r-ind=1,1
      [4,3]((1,10,19),(1,11,20),(1,11,21),(5,52,100)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((1,11,20),(2,21,40),(1,11,21)); lvl=6; h,r-ind=1,1
        [3,3]((5,52,100),(2,21,40),(1,11,21)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,19),(5,52,100),(2,21,40)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,19),(1,11,20),(2,21,40)); lvl=6; h,r-ind=1,1
    [4,3]((2,19,38),(2,20,39),(4,38,73),(1,10,20)); lvl=4; h,r-ind=1,1
      [4,3]((1,10,20),(4,39,76),(7,68,133),(2,20,39)); lvl=5; h,r-ind=1,1
        [3,3]((5,49,96),(7,68,133),(4,39,76)); lvl=6; h,r-ind=1,1
        [3,3]((2,20,39),(5,49,96),(4,39,76)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,20),(2,20,39),(5,49,96)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,20),(5,49,96),(7,68,133)); lvl=6; h,r-ind=1,1
      [4,3]((2,19,38),(2,19,37),(1,10,20),(7,68,133)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((2,19,37),(7,68,133),(3,29,57)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,20),(7,68,133),(3,29,57)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,38),(2,19,37),(3,29,57)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,20),(2,19,38),(3,29,57)); lvl=6; h,r-ind=1,1
      [3,3]((3,29,56),(4,39,76),(2,20,39)); lvl=5; h,r-ind=1,1
      [4,3]((2,19,37),(3,29,56),(4,39,76),(7,68,133)); lvl=5; h,r-ind=1,1
        [3,3]((4,39,76),(3,29,56),(6,58,113)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,37),(3,29,56),(6,58,113)); lvl=6; h,r-ind=1,1
        [3,3]((7,68,133),(4,39,76),(6,58,113)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,37),(7,68,133),(6,58,113)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,37),(3,29,56),(4,38,73)); lvl=5; h,r-ind=1,1
    [4,3]((1,11,23),(2,22,43),(2,20,39),(1,10,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,31,61),(2,21,41),(2,20,39)); lvl=5; h,r-ind=1,1
      [4,3]((1,10,20),(3,31,61),(5,52,103),(2,20,39)); lvl=5; h,r-ind=1,1
        [3,3]((4,41,81),(3,31,61),(5,52,103)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,20),(4,41,81),(5,52,103)); lvl=6; h,r-ind=1,1
        [3,3]((2,20,39),(1,10,20),(4,41,81)); lvl=6; h,r-ind=1,1
        [3,3]((2,20,39),(4,41,81),(3,31,61)); lvl=6; h,r-ind=1,1
      [4,3]((1,11,22),(1,11,23),(1,10,20),(5,52,103)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((1,11,23),(2,21,42),(1,10,20)); lvl=6; h,r-ind=1,1
        [3,3]((5,52,103),(2,21,42),(1,10,20)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,22),(5,52,103),(2,21,42)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,22),(1,11,23),(2,21,42)); lvl=6; h,r-ind=1,1
      [4,3]((1,11,22),(3,31,61),(5,52,103),(2,21,41)); lvl=5; h,r-ind=1,1
        [3,3]((4,42,83),(5,52,103),(3,31,61)); lvl=6; h,r-ind=1,1
        [3,3]((2,21,41),(4,42,83),(3,31,61)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,22),(2,21,41),(4,42,83)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,22),(4,42,83),(5,52,103)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,22),(2,22,43),(2,21,41)); lvl=5; h,r-ind=1,1
    [3,3]((2,19,38),(1,11,23),(1,10,20)); lvl=4; h,r-ind=1,1
  [4,3]((2,19,33),(1,11,18),(1,11,20),(4,38,71)); lvl=3; h,r-ind=3,1
    [3,3]((1,10,18),(1,11,20),(1,11,19)); lvl=4; h,r-ind=1,1
    [4,3]((1,11,18),(1,10,17),(1,10,18),(1,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,10,17),(1,10,18),(2,21,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,11,19),(1,10,18),(2,21,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,11,18),(1,10,17),(2,21,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,11,19),(1,11,18),(2,21,36)); lvl=5; h,r-ind=1,1
    [4,3]((2,19,33),(4,38,69),(1,10,17),(1,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((4,39,69),(1,10,18),(1,10,17)); lvl=5; h,r-ind=1,1
      [4,3]((2,19,33),(2,19,34),(4,39,69),(1,10,17)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,19,34),(4,39,69),(3,29,51)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,17),(4,39,69),(3,29,51)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,33),(2,19,34),(3,29,51)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,17),(2,19,33),(3,29,51)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,34),(4,39,69),(1,10,18)); lvl=5; h,r-ind=1,1
      [3,3]((4,38,69),(2,19,34),(1,10,18)); lvl=5; h,r-ind=1,1
    [3,3]((5,49,91),(1,10,18),(1,11,20)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((4,38,71),(2,19,35),(5,49,91),(1,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((6,58,107),(1,10,18),(2,19,35)); lvl=5; h,r-ind=1,1
      [4,3]((4,38,71),(6,58,107),(3,29,54),(2,19,35)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,29,54),(6,58,107),(5,48,89)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,35),(6,58,107),(5,48,89)); lvl=6; h,r-ind=1,1
        [3,3]((4,38,71),(3,29,54),(5,48,89)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,35),(4,38,71),(5,48,89)); lvl=6; h,r-ind=1,1
      [3,3]((6,58,107),(3,29,54),(1,10,18)); lvl=5; h,r-ind=1,1
      [3,3]((5,49,91),(3,29,54),(1,10,18)); lvl=5; h,r-ind=1,1
    [3,3]((2,19,35),(4,38,69),(1,10,18)); lvl=4; h,r-ind=1,1
  [4,3]((2,19,33),(1,9,17),(1,9,16),(4,38,71)); lvl=3; h,r-ind=1,1
    [3,3]((5,46,84),(1,9,17),(1,9,16)); lvl=4; h,r-ind=1,1
    [4,3]((2,19,33),(4,38,69),(5,46,84),(1,9,16)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,9,16),(7,65,117),(3,28,51),(5,46,84)); lvl=5; h,r-ind=1,3
        [3,3]((4,37,67),(7,65,117),(3,28,51)); lvl=6; h,r-ind=1,1
        [3,3]((5,46,84),(4,37,67),(3,28,51)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,16),(5,46,84),(4,37,67)); lvl=6; h,r-ind=1,1
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          [3,3]((1,9,16),(4,37,67),(7,65,117)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,34),(7,65,117),(3,28,51)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,19,34),(4,38,69),(3,28,51)); lvl=5; h,r-ind=1,1
        [4,3]((1,9,16),(2,19,33),(2,19,34),(7,65,117)); lvl=5; h,r-ind=1,3
          [3,3]((2,19,33),(3,28,50),(2,19,34)); lvl=6; h,r-ind=1,1
          [3,3]((7,65,117),(3,28,50),(2,19,34)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,16),(7,65,117),(3,28,50)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,16),(2,19,33),(3,28,50)); lvl=6; h,r-ind=1,1
      [4,3]((2,19,35),(4,38,69),(5,46,84),(1,9,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,17),(5,46,84),(3,28,51)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,17),(6,56,103),(3,28,51)); lvl=5; h,r-ind=1,1
        [4,3]((2,19,35),(4,38,69),(6,56,103),(3,28,51)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,47,86),(3,28,51),(6,56,103)); lvl=6; h,r-ind=1,1
          [3,3]((2,19,35),(5,47,86),(6,56,103)); lvl=6; h,r-ind=1,1
          [3,3]((4,38,69),(5,47,86),(3,28,51)); lvl=6; h,r-ind=1,1
          [3,3]((2,19,35),(4,38,69),(5,47,86)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(2,19,35),(6,56,103)); lvl=5; h,r-ind=1,1
      [3,3]((4,38,71),(2,19,35),(1,9,17)); lvl=4; h,r-ind=1,1
    [4,3]((4,39,65),(2,22,35),(2,19,33),(1,11,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,10,17),(2,22,35),(4,41,67),(1,11,18)); lvl=4; h,r-ind=1,1
        [4,3]((4,42,69),(1,11,18),(2,21,34),(2,22,35)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((1,11,18),(3,32,52),(2,22,35)); lvl=6; h,r-ind=1,1
          [3,3]((2,21,34),(3,32,52),(2,22,35)); lvl=6; h,r-ind=1,1
          [3,3]((4,42,69),(1,11,18),(3,32,52)); lvl=6; h,r-ind=1,1
          [3,3]((2,21,34),(4,42,69),(3,32,52)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,17),(4,42,69),(1,11,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,17),(4,42,69),(2,21,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,17),(2,21,34),(4,41,67)); lvl=5; h,r-ind=1,1
      [3,3]((2,20,33),(1,10,17),(4,41,67)); lvl=4; h,r-ind=1,1
      [3,3]((2,20,33),(3,29,49),(1,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,29,49),(2,19,33),(1,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((4,39,65),(2,20,33),(3,29,49)); lvl=4; h,r-ind=1,1
    [3,3]((1,11,23),(2,17,34),(1,9,18)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,14),(2,17,34),(1,11,23)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,6,12),(1,7,14),(1,11,23)); lvl=2; h,r-ind=1,1
  [4,3]((1,11,12),(2,17,24),(2,22,35),(2,17,30)); lvl=2; h,r-ind=5,1
    [4,3]((1,9,14),(1,9,15),(2,17,27),(2,17,30)); lvl=3; h,r-ind=1,1
      [4,3]((1,9,15),(5,44,72),(2,17,30),(4,34,57)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,26,43),(2,17,29),(4,34,57)); lvl=5; h,r-ind=1,1
        [3,3]((3,26,43),(2,17,29),(7,61,102)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,9,15),(2,17,29),(2,17,30),(7,61,102)); lvl=5; h,r-ind=1,3
          [3,3]((2,17,30),(3,26,44),(2,17,29)); lvl=6; h,r-ind=1,1
          [3,3]((7,61,102),(3,26,44),(2,17,29)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,15),(7,61,102),(3,26,44)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,15),(2,17,30),(3,26,44)); lvl=6; h,r-ind=1,1
        [4,3]((1,9,15),(5,44,72),(3,26,43),(7,61,102)); lvl=5; h,r-ind=1,3
          [3,3]((4,35,58),(3,26,43),(5,44,72)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,15),(4,35,58),(5,44,72)); lvl=6; h,r-ind=1,1
          [3,3]((4,35,58),(7,61,102),(3,26,43)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,15),(4,35,58),(7,61,102)); lvl=6; h,r-ind=1,1
      [4,3]((1,9,14),(5,44,72),(2,17,27),(4,34,57)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,17,28),(3,26,43),(7,61,99)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,9,14),(5,44,72),(3,26,43),(7,61,99)); lvl=5; h,r-ind=1,3
          [3,3]((4,35,57),(5,44,72),(3,26,43)); lvl=6; h,r-ind=1,1
          [3,3]((7,61,99),(4,35,57),(3,26,43)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,14),(7,61,99),(4,35,57)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,14),(4,35,57),(5,44,72)); lvl=6; h,r-ind=1,1
        [4,3]((1,9,14),(2,17,27),(2,17,28),(7,61,99)); lvl=5; h,r-ind=1,3
          [3,3]((2,17,27),(3,26,42),(2,17,28)); lvl=6; h,r-ind=1,1
          [3,3]((7,61,99),(3,26,42),(2,17,28)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,14),(7,61,99),(3,26,42)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,14),(2,17,27),(3,26,42)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,28),(4,34,57),(3,26,43)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,14),(1,9,15),(5,44,72)); lvl=4; h,r-ind=1,1
    [4,3]((4,39,65),(2,19,31),(1,9,15),(2,17,30)); lvl=3; h,r-ind=1,1
      [4,3]((9,84,140),(5,47,78),(1,9,15),(2,19,31)); lvl=4; h,r-ind=1,1
        [3,3]((6,56,93),(5,47,78),(2,19,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,15),(6,56,93),(2,19,31)); lvl=5; h,r-ind=1,1
        [3,3]((9,84,140),(6,56,93),(5,47,78)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,15),(9,84,140),(6,56,93)); lvl=5; h,r-ind=1,1
      [3,3]((3,29,48),(5,47,78),(2,19,31)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [5,3]((3,29,48),(2,19,32),(9,84,140),(3,28,47),(5,47,78)); lvl=4; h,r-ind=1,1
        [5,3]((3,29,48),(4,38,63),(12,113,189),(7,66,110),(2,19,32)); lvl=5; h,r-ind=1,1
          [3,3]((7,66,110),(9,85,142),(12,113,189)); lvl=6; h,r-ind=1,1
          [3,3]((2,19,32),(9,85,142),(12,113,189)); lvl=6; h,r-ind=1,1
          [4,3]((15,142,237),(13,123,205),(7,66,110),(9,85,142)); lvl=6; h,r-ind=1,1
            [3,3]((13,123,205),(7,66,110),(22,208,347)); lvl=7; h,r-ind=1,1
            [3,3]((9,85,142),(7,66,110),(22,208,347)); lvl=7; h,r-ind=1,1
            [3,3]((15,142,237),(13,123,205),(22,208,347)); lvl=7; h,r-ind=1,1
            [3,3]((9,85,142),(15,142,237),(22,208,347)); lvl=7; h,r-ind=1,1
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      [3,3]((2,19,32),(15,142,237),(9,85,142)); lvl=6; h,r-ind=1,1
      [4,3]((4,38,63),(6,57,95),(15,142,237),(13,123,205)); lvl=6; h,r-ind=1,1
        [3,3]((15,142,237),(6,57,95),(19,180,300)); lvl=7; h,r-ind=1,1
        [3,3]((4,38,63),(6,57,95),(19,180,300)); lvl=7; h,r-ind=1,1
        [3,3]((13,123,205),(4,38,63),(19,180,300)); lvl=7; h,r-ind=1,1
        [3,3]((13,123,205),(15,142,237),(19,180,300)); lvl=7; h,r-ind=1,1
      [3,3]((4,38,63),(3,29,48),(6,57,95)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,32),(6,57,95),(15,142,237)); lvl=6; h,r-ind=1,1
      [3,3]((3,29,48),(2,19,32),(6,57,95)); lvl=6; h,r-ind=1,1
      [3,3]((4,38,63),(13,123,205),(7,66,110)); lvl=6; h,r-ind=1,1
    [3,3]((3,28,47),(12,113,189),(2,19,32)); lvl=5; h,r-ind=1,1
    [4,3]((3,28,47),(8,75,125),(12,113,189),(7,66,110)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((10,94,157),(7,66,110),(8,75,125)); lvl=6; h,r-ind=1,1
      [3,3]((3,28,47),(10,94,157),(8,75,125)); lvl=6; h,r-ind=1,1
      [3,3]((10,94,157),(12,113,189),(7,66,110)); lvl=6; h,r-ind=1,1
      [3,3]((3,28,47),(10,94,157),(12,113,189)); lvl=6; h,r-ind=1,1
    [4,3]((4,38,63),(5,47,78),(8,75,125),(7,66,110)); lvl=5; h,r-ind=1,1
      [3,3]((12,113,188),(5,47,78),(8,75,125)); lvl=6; h,r-ind=1,1
      [3,3]((7,66,110),(12,113,188),(8,75,125)); lvl=6; h,r-ind=1,1
      [3,3]((4,38,63),(7,66,110),(12,113,188)); lvl=6; h,r-ind=1,1
      [3,3]((4,38,63),(12,113,188),(5,47,78)); lvl=6; h,r-ind=1,1
    [3,3]((3,28,47),(9,84,140),(8,75,125)); lvl=5; h,r-ind=1,1
    [3,3]((5,47,78),(9,84,140),(8,75,125)); lvl=5; h,r-ind=1,1
  [3,3]((3,29,48),(2,19,32),(4,39,65)); lvl=4; h,r-ind=1,1
  [5,3]((9,84,140),(3,28,47),(4,37,63),(2,17,30),(1,9,15)); lvl=4; h,r-ind=1,1
    [4,3]((9,83,140),(4,37,63),(5,46,78),(3,28,47)); lvl=5; h,r-ind=1,1
      [3,3]((5,46,78),(4,37,63),(8,74,125)); lvl=6; h,r-ind=1,1
      [3,3]((3,28,47),(4,37,63),(8,74,125)); lvl=6; h,r-ind=1,1
      [3,3]((9,83,140),(5,46,78),(8,74,125)); lvl=6; h,r-ind=1,1
      [3,3]((3,28,47),(9,83,140),(8,74,125)); lvl=6; h,r-ind=1,1
    [4,3]((10,92,155),(4,37,62),(9,83,140),(3,28,47)); lvl=5; h,r-ind=1,1
      [3,3]((3,28,47),(4,37,62),(13,120,202)); lvl=6; h,r-ind=1,1
      [3,3]((10,92,155),(4,37,62),(13,120,202)); lvl=6; h,r-ind=1,1
      [3,3]((9,83,140),(10,92,155),(13,120,202)); lvl=6; h,r-ind=1,1
      [3,3]((9,83,140),(3,28,47),(13,120,202)); lvl=6; h,r-ind=1,1
    [3,3]((9,84,140),(4,37,62),(3,28,47)); lvl=5; h,r-ind=1,1
    [5,3]((10,92,155),(9,83,140),(7,64,108),(5,46,78),(2,18,31)); lvl=5; h,r-ind=1,1
      [3,3]((2,18,31),(6,55,93),(7,64,108)); lvl=6; h,r-ind=1,1
      [3,3]((10,92,155),(6,55,93),(7,64,108)); lvl=6; h,r-ind=1,1
      [3,3]((10,92,155),(9,83,140),(6,55,93)); lvl=6; h,r-ind=1,1
      [3,3]((5,46,78),(2,18,31),(6,55,93)); lvl=6; h,r-ind=1,1
      [3,3]((9,83,140),(5,46,78),(6,55,93)); lvl=6; h,r-ind=1,1
    [4,3]((10,92,155),(4,37,62),(1,9,15),(7,64,108)); lvl=5; h,r-ind=1,1
      [3,3]((11,101,170),(1,9,15),(4,37,62)); lvl=6; h,r-ind=1,1
      [3,3]((10,92,155),(11,101,170),(4,37,62)); lvl=6; h,r-ind=1,1
      [3,3]((7,64,108),(10,92,155),(11,101,170)); lvl=6; h,r-ind=1,1
      [3,3]((7,64,108),(11,101,170),(1,9,15)); lvl=6; h,r-ind=1,1
    [3,3]((9,84,140),(4,37,62),(1,9,15)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,15),(7,64,108),(2,18,31),(2,17,30)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((3,27,46),(7,64,108),(2,18,31)); lvl=6; h,r-ind=1,1
      [3,3]((2,17,30),(3,27,46),(2,18,31)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,15),(2,17,30),(3,27,46)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,15),(3,27,46),(7,64,108)); lvl=6; h,r-ind=1,1
    [3,3]((4,37,63),(5,46,78),(2,18,31)); lvl=5; h,r-ind=1,1
  [3,3]((2,19,32),(3,28,47),(4,37,63)); lvl=4; h,r-ind=1,1
[4,3]((4,38,57),(1,9,14),(2,19,31),(1,9,15)); lvl=3; h,r-ind=1,1
  [3,3]((1,9,14),(1,9,15),(5,46,73)); lvl=4; h,r-ind=1,1
  [4,3]((2,19,31),(4,38,59),(1,9,15),(5,46,73)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((1,9,15),(7,65,104),(3,28,44),(5,46,73)); lvl=5; h,r-ind=1,3
      [3,3]((3,28,44),(7,65,104),(4,37,59)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,15),(7,65,104),(4,37,59)); lvl=6; h,r-ind=1,1
      [3,3]((5,46,73),(3,28,44),(4,37,59)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,15),(5,46,73),(4,37,59)); lvl=6; h,r-ind=1,1
    [3,3]((2,19,30),(7,65,104),(3,28,44)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
    [4,3]((1,9,15),(2,19,31),(2,19,30),(7,65,104)); lvl=5; h,r-ind=1,3
      [3,3]((3,28,45),(2,19,30),(2,19,31)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,15),(3,28,45),(2,19,31)); lvl=6; h,r-ind=1,1
      [3,3]((3,28,45),(7,65,104),(2,19,30)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,15),(3,28,45),(7,65,104)); lvl=6; h,r-ind=1,1
    [3,3]((2,19,30),(3,28,44),(4,38,59)); lvl=5; h,r-ind=1,1
  [4,3]((2,19,29),(4,38,59),(1,9,14),(5,46,73)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,14),(3,28,44),(5,46,73)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,14),(6,56,87),(3,28,44)); lvl=5; h,r-ind=1,1
    [4,3]((2,19,29),(6,56,87),(4,38,59),(3,28,44)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((5,47,73),(3,28,44),(6,56,87)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,29),(5,47,73),(6,56,87)); lvl=6; h,r-ind=1,1
      [3,3]((4,38,59),(5,47,73),(3,28,44)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,29),(4,38,59),(5,47,73)); lvl=6; h,r-ind=1,1
    [3,3]((2,19,29),(1,9,14),(6,56,87)); lvl=5; h,r-ind=1,1
  [3,3]((4,38,57),(2,19,29),(1,9,14)); lvl=4; h,r-ind=1,1
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[4,3]((4,38,57),(2,19,31),(1,11,17),(1,11,15)); lvl=3; h,r-ind=3,1
  [4,3]((1,10,15),(1,11,16),(1,11,17),(1,10,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,11,16),(1,11,17),(2,21,32)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,16),(1,11,17),(2,21,32)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,15),(1,11,16),(2,21,32)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,16),(1,10,15),(2,21,32)); lvl=5; h,r-ind=1,1
  [4,3]((4,38,59),(1,10,15),(2,19,31),(1,10,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,10,15),(1,10,16),(4,39,61)); lvl=5; h,r-ind=1,1
    [4,3]((2,19,31),(2,19,30),(1,10,16),(4,39,61)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,19,30),(3,29,46),(4,39,61)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,16),(3,29,46),(4,39,61)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,31),(1,10,16),(3,29,46)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,31),(2,19,30),(3,29,46)); lvl=6; h,r-ind=1,1
    [3,3]((2,19,30),(1,10,15),(4,39,61)); lvl=5; h,r-ind=1,1
    [3,3]((4,38,59),(2,19,30),(1,10,15)); lvl=5; h,r-ind=1,1
  [3,3]((2,19,29),(4,38,59),(1,10,15)); lvl=4; h,r-ind=1,1
  [3,3]((1,11,15),(1,10,15),(1,11,16)); lvl=4; h,r-ind=1,1
  [3,3]((1,11,15),(1,10,15),(5,49,72)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
  [4,3]((4,38,57),(2,19,29),(1,10,15),(5,49,72)); lvl=4; h,r-ind=1,1
    [3,3]((6,58,87),(1,10,15),(2,19,29)); lvl=5; h,r-ind=1,1
    [4,3]((4,38,57),(6,58,87),(3,29,43),(2,19,29)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((5,48,72),(3,29,43),(6,58,87)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,29),(5,48,72),(6,58,87)); lvl=6; h,r-ind=1,1
      [3,3]((4,38,57),(2,19,29),(5,48,72)); lvl=6; h,r-ind=1,1
      [3,3]((4,38,57),(5,48,72),(3,29,43)); lvl=6; h,r-ind=1,1
    [3,3]((6,58,87),(3,29,43),(1,10,15)); lvl=5; h,r-ind=1,1
    [3,3]((5,49,72),(3,29,43),(1,10,15)); lvl=5; h,r-ind=1,1
[4,3]((2,22,35),(4,39,65),(2,19,31),(1,11,17)); lvl=3; h,r-ind=1,1
  [3,3]((2,19,31),(1,10,16),(3,29,48)); lvl=4; h,r-ind=1,1
  [3,3]((2,20,33),(1,10,16),(3,29,48)); lvl=4; h,r-ind=1,1
  [3,3]((4,39,65),(2,20,33),(3,29,48)); lvl=4; h,r-ind=1,1
  [3,3]((4,41,67),(2,20,33),(1,10,16)); lvl=4; h,r-ind=1,1
  [4,3]((2,22,35),(4,41,67),(1,11,17),(1,10,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,21,34),(1,10,16),(4,41,67)); lvl=5; h,r-ind=1,1
    [3,3]((2,21,34),(4,42,67),(1,10,16)); lvl=5; h,r-ind=1,1
    [3,3]((4,42,67),(1,11,17),(1,10,16)); lvl=5; h,r-ind=1,1
    [4,3]((2,21,34),(2,22,35),(4,42,67),(1,11,17)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((1,11,17),(3,32,51),(2,22,35)); lvl=6; h,r-ind=1,1
      [3,3]((2,21,34),(3,32,51),(2,22,35)); lvl=6; h,r-ind=1,1
      [3,3]((4,42,67),(1,11,17),(3,32,51)); lvl=6; h,r-ind=1,1
      [3,3]((2,21,34),(4,42,67),(3,32,51)); lvl=6; h,r-ind=1,1
[4,3]((1,11,12),(2,19,24),(4,38,57),(1,11,15)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc
  [4,3]((4,38,57),(5,49,72),(2,19,28),(1,10,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,10,14),(3,29,43),(5,49,72)); lvl=5; h,r-ind=1,1
    [3,3]((6,58,85),(1,10,14),(3,29,43)); lvl=5; h,r-ind=1,1
    [4,3]((4,38,57),(6,58,85),(2,19,28),(3,29,43)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,19,28),(5,48,71),(6,58,85)); lvl=6; h,r-ind=1,1
      [3,3]((3,29,43),(5,48,71),(6,58,85)); lvl=6; h,r-ind=1,1
      [3,3]((4,38,57),(3,29,43),(5,48,71)); lvl=6; h,r-ind=1,1
      [3,3]((4,38,57),(2,19,28),(5,48,71)); lvl=6; h,r-ind=1,1
    [3,3]((6,58,85),(2,19,28),(1,10,14)); lvl=5; h,r-ind=1,1
  [4,3]((2,20,27),(4,38,53),(2,19,28),(1,10,14)); lvl=4; h,r-ind=1,1
    [4,3]((1,10,14),(7,68,95),(2,19,27),(2,19,28)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((3,29,41),(2,19,27),(7,68,95)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,14),(3,29,41),(7,68,95)); lvl=6; h,r-ind=1,1
      [3,3]((3,29,41),(2,19,28),(2,19,27)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,14),(3,29,41),(2,19,28)); lvl=6; h,r-ind=1,1
    [4,3]((2,20,27),(4,39,54),(1,10,14),(7,68,95)); lvl=5; h,r-ind=1,1
      [3,3]((5,49,68),(4,39,54),(7,68,95)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,14),(5,49,68),(7,68,95)); lvl=6; h,r-ind=1,1
      [3,3]((2,20,27),(1,10,14),(5,49,68)); lvl=6; h,r-ind=1,1
      [3,3]((2,20,27),(5,49,68),(4,39,54)); lvl=6; h,r-ind=1,1
    [4,3]((3,29,40),(4,39,54),(7,68,95),(2,19,27)); lvl=5; h,r-ind=1,1
      [3,3]((4,39,54),(6,58,81),(7,68,95)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,27),(6,58,81),(7,68,95)); lvl=6; h,r-ind=1,1
      [3,3]((3,29,40),(4,39,54),(6,58,81)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,27),(3,29,40),(6,58,81)); lvl=6; h,r-ind=1,1
    [3,3]((3,29,40),(4,38,53),(2,19,27)); lvl=5; h,r-ind=1,1
    [3,3]((2,20,27),(3,29,40),(4,39,54)); lvl=5; h,r-ind=1,1
  [4,3]((1,11,15),(2,22,27),(2,20,27),(1,10,14)); lvl=4; h,r-ind=1,1
    [3,3]((3,31,41),(2,20,27),(2,21,27)); lvl=5; h,r-ind=1,1
    [4,3]((1,11,14),(3,31,41),(5,52,69),(2,21,27)); lvl=5; h,r-ind=1,1
      [3,3]((5,52,69),(3,31,41),(4,42,55)); lvl=6; h,r-ind=1,1
      [3,3]((2,21,27),(3,31,41),(4,42,55)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,14),(2,21,27),(4,42,55)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,14),(5,52,69),(4,42,55)); lvl=6; h,r-ind=1,1
    [3,3]((1,11,14),(2,22,27),(2,21,27)); lvl=5; h,r-ind=1,1
    [4,3]((1,10,14),(3,31,41),(5,52,69),(2,20,27)); lvl=5; h,r-ind=1,1
      [3,3]((4,41,55),(5,52,69),(3,31,41)); lvl=6; h,r-ind=1,1
      [3,3]((2,20,27),(4,41,55),(3,31,41)); lvl=6; h,r-ind=1,1
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      [3,3]((1,10,14),(2,20,27),(4,41,55)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,14),(4,41,55),(5,52,69)); lvl=6; h,r-ind=1,1
    [4,3]((1,11,15),(1,11,14),(1,10,14),(5,52,69)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((1,11,14),(5,52,69),(2,21,28)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,14),(5,52,69),(2,21,28)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,15),(1,11,14),(2,21,28)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,14),(1,11,15),(2,21,28)); lvl=6; h,r-ind=1,1
  [4,3]((2,20,27),(1,10,12),(4,38,53),(2,19,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,10,13),(4,38,51),(2,19,26)); lvl=5; h,r-ind=1,1
    [3,3]((3,29,40),(1,10,13),(2,19,26)); lvl=5; h,r-ind=1,1
    [3,3]((3,29,40),(4,38,53),(2,19,26)); lvl=5; h,r-ind=1,1
    [3,3]((2,20,27),(3,29,40),(1,10,13)); lvl=5; h,r-ind=1,1
    [4,3]((1,10,13),(1,10,12),(2,19,24),(4,38,51)); lvl=5; h,r-ind=1,1
      [4,3]((2,19,25),(1,10,12),(2,19,24),(4,39,50)); lvl=6; h,r-ind=1,2; alert-r-inc
        [3,3]((2,19,24),(1,10,12),(3,29,37)); lvl=7; h,r-ind=1,1
        [3,3]((4,39,50),(1,10,12),(3,29,37)); lvl=7; h,r-ind=1,1
        [3,3]((2,19,25),(2,19,24),(3,29,37)); lvl=7; h,r-ind=1,1
        [3,3]((4,39,50),(2,19,25),(3,29,37)); lvl=7; h,r-ind=1,1
      [3,3]((1,10,13),(2,19,25),(4,39,50)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,13),(2,19,25),(4,38,51)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,13),(1,10,12),(4,39,50)); lvl=6; h,r-ind=1,1
  [4,3]((1,11,12),(2,22,27),(2,20,27),(1,10,12)); lvl=4; h,r-ind=3,1
    [3,3]((2,20,27),(1,10,13),(2,21,27)); lvl=5; h,r-ind=1,1
    [3,3]((1,11,13),(1,10,13),(2,21,27)); lvl=5; h,r-ind=1,1
    [3,3]((1,11,13),(2,22,27),(2,21,27)); lvl=5; h,r-ind=1,1
    [4,3]((1,11,12),(1,11,13),(1,10,12),(1,10,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,10,12),(1,10,13),(2,21,25)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,13),(1,10,13),(2,21,25)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,12),(1,10,12),(2,21,25)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,13),(1,11,12),(2,21,25)); lvl=6; h,r-ind=1,1
  [3,3]((1,11,15),(5,49,72),(1,10,14)); lvl=4; h,r-ind=3,3; optimized-h
[4,3]((1,9,14),(1,9,12),(2,17,24),(2,17,27)); lvl=3; h,r-ind=1,1
  [4,3]((1,9,13),(4,34,51),(1,9,12),(2,17,24)); lvl=4; h,r-ind=1,1
    [4,3]((1,9,12),(2,17,25),(2,17,24),(4,35,50)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,26,37),(2,17,24),(2,17,25)); lvl=6; h,r-ind=1,1
      [3,3]((4,35,50),(3,26,37),(2,17,25)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,12),(4,35,50),(3,26,37)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,12),(3,26,37),(2,17,24)); lvl=6; h,r-ind=1,1
    [3,3]((1,9,13),(1,9,12),(4,35,50)); lvl=5; h,r-ind=1,1
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    [3,3]((1,9,13),(2,17,25),(4,34,51)); lvl=5; h,r-ind=1,1
  [4,3]((1,9,14),(1,9,13),(2,17,27),(4,34,51)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,13),(4,34,51),(2,17,26)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,13),(4,35,53),(2,17,26)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,14),(4,35,53),(2,17,27),(2,17,26)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,26,40),(2,17,26),(2,17,27)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,14),(3,26,40),(2,17,27)); lvl=6; h,r-ind=1,1
      [3,3]((3,26,40),(4,35,53),(2,17,26)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,14),(3,26,40),(4,35,53)); lvl=6; h,r-ind=1,1
    [3,3]((1,9,14),(1,9,13),(4,35,53)); lvl=5; h,r-ind=1,1
[4,3]((2,19,24),(4,38,57),(1,9,14),(1,9,12)); lvl=3; h,r-ind=1,1
  [3,3]((2,19,28),(4,38,57),(1,9,14)); lvl=4; h,r-ind=1,1
  [4,3]((1,9,13),(2,19,28),(4,38,53),(1,9,14)); lvl=4; h,r-ind=1,1
    [4,3]((4,37,54),(1,9,14),(2,19,27),(2,19,28)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((2,19,27),(2,19,28),(3,28,41)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,14),(2,19,28),(3,28,41)); lvl=6; h,r-ind=1,1
      [3,3]((4,37,54),(1,9,14),(3,28,41)); lvl=6; h,r-ind=1,1
      [3,3]((4,37,54),(2,19,27),(3,28,41)); lvl=6; h,r-ind=1,1
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    [3,3]((1,9,13),(4,37,54),(2,19,27)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,13),(2,19,27),(4,38,53)); lvl=5; h,r-ind=1,1
  [4,3]((2,19,24),(1,9,12),(1,9,13),(4,38,53)); lvl=4; h,r-ind=1,1
    [3,3]((5,46,63),(1,9,13),(1,9,12)); lvl=5; h,r-ind=1,1
    [4,3]((2,19,24),(4,38,51),(5,46,63),(1,9,12)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,9,12),(7,65,87),(3,28,38),(5,46,63)); lvl=6; h,r-ind=1,3
        [3,3]((7,65,87),(4,37,50),(3,28,38)); lvl=7; h,r-ind=1,1
        [3,3]((5,46,63),(4,37,50),(3,28,38)); lvl=7; h,r-ind=1,1
        [3,3]((1,9,12),(5,46,63),(4,37,50)); lvl=7; h,r-ind=1,1
        [3,3]((1,9,12),(7,65,87),(4,37,50)); lvl=7; h,r-ind=1,1
      [4,3]((2,19,25),(2,19,24),(1,9,12),(7,65,87)); lvl=6; h,r-ind=1,3
        [3,3]((2,19,24),(3,28,37),(1,9,12)); lvl=7; h,r-ind=1,1
        [3,3]((7,65,87),(3,28,37),(1,9,12)); lvl=7; h,r-ind=1,1
        [3,3]((2,19,25),(7,65,87),(3,28,37)); lvl=7; h,r-ind=1,1
        [3,3]((2,19,25),(2,19,24),(3,28,37)); lvl=7; h,r-ind=1,1
      [3,3]((2,19,25),(7,65,87),(3,28,38)); lvl=6; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,19,25),(4,38,51),(3,28,38)); lvl=6; h,r-ind=1,1
    [4,3]((2,19,26),(4,38,51),(5,46,63),(1,9,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,13),(3,28,38),(5,46,63)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,13),(6,56,77),(3,28,38)); lvl=6; h,r-ind=1,1
      [4,3]((2,19,26),(6,56,77),(4,38,51),(3,28,38)); lvl=6; h,r-ind=1,2; alert-r-inc
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            [3,3]((5,47,64),(3,28,38),(6,56,77)); lvl=7; h,r-ind=1,1
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            [3,3]((4,38,51),(5,47,64),(3,28,38)); lvl=7; h,r-ind=1,1
            [3,3]((2,19,26),(4,38,51),(5,47,64)); lvl=7; h,r-ind=1,1
          [3,3]((2,19,26),(1,9,13),(6,56,77)); lvl=6; h,r-ind=1,1
        [3,3]((4,38,53),(2,19,26),(1,9,13)); lvl=5; h,r-ind=1,1
[4,3]((1,7,14),(2,14,27),(2,17,30),(2,17,34)); lvl=2; h,r-ind=3,1
  [3,3]((4,31,57),(1,8,15),(2,17,30)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
  [3,3]((2,17,32),(1,8,15),(2,17,30)); lvl=3; h,r-ind=2,2; alert-r-inc; optimized-h
  [4,3]((2,17,34),(1,8,16),(2,17,32),(1,8,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,16),(1,8,15),(4,33,64)); lvl=4; h,r-ind=1,1
    [4,3]((2,17,33),(2,17,32),(1,8,15),(4,33,64)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,8,15),(2,17,32),(3,25,48)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,33),(2,17,32),(3,25,48)); lvl=5; h,r-ind=1,1
      [3,3]((4,33,64),(1,8,15),(3,25,48)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,33),(4,33,64),(3,25,48)); lvl=5; h,r-ind=1,1
    [4,3]((2,17,34),(2,17,33),(1,8,16),(4,33,64)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,17,33),(4,33,64),(3,25,49)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,16),(4,33,64),(3,25,49)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,34),(2,17,33),(3,25,49)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,16),(2,17,34),(3,25,49)); lvl=5; h,r-ind=1,1
  [3,3]((2,14,27),(4,31,57),(1,8,15)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
  [3,3]((1,7,14),(2,14,27),(1,8,15)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,14),(1,8,16),(1,8,15)); lvl=3; h,r-ind=1,1
[3,3]((1,6,12),(1,7,14),(2,14,27)); lvl=2; h,r-ind=1,1
[4,3]((1,6,12),(2,17,24),(2,14,27),(2,17,30)); lvl=2; h,r-ind=3,3
  [4,3]((3,23,40),(2,15,27),(1,8,14),(2,16,27)); lvl=3; h,r-ind=1,1
    [3,3]((4,31,54),(1,8,14),(2,15,27)); lvl=4; h,r-ind=1,1
    [3,3]((3,23,40),(4,31,54),(2,15,27)); lvl=4; h,r-ind=1,1
    [3,3]((2,16,27),(4,31,54),(1,8,14)); lvl=4; h,r-ind=1,1
    [3,3]((3,23,40),(2,16,27),(4,31,54)); lvl=4; h,r-ind=1,1
  [4,3]((2,17,30),(2,17,27),(1,8,14),(2,16,27)); lvl=3; h,r-ind=1,1
    [3,3]((5,41,69),(1,8,14),(2,16,27)); lvl=4; h,r-ind=1,1
    [3,3]((2,17,27),(5,41,69),(2,16,27)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,34,57),(2,17,27),(5,41,69)); lvl=4; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((4,34,57),(2,17,30),(5,41,69),(1,8,14)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((2,17,29),(7,58,99),(1,8,14),(2,17,30)); lvl=5; h,r-ind=1,3
        [3,3]((7,58,99),(1,8,14),(3,25,43)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,30),(1,8,14),(3,25,43)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,29),(7,58,99),(3,25,43)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,30),(2,17,29),(3,25,43)); lvl=6; h,r-ind=1,1
      [4,3]((7,58,99),(3,25,42),(5,41,69),(1,8,14)); lvl=5; h,r-ind=1,3
        [3,3]((4,33,56),(3,25,42),(5,41,69)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,14),(4,33,56),(5,41,69)); lvl=6; h,r-ind=1,1
        [3,3]((7,58,99),(1,8,14),(4,33,56)); lvl=6; h,r-ind=1,1
        [3,3]((7,58,99),(4,33,56),(3,25,42)); lvl=6; h,r-ind=1,1
      [3,3]((2,17,29),(7,58,99),(3,25,42)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((4,34,57),(2,17,29),(3,25,42)); lvl=5; h,r-ind=1,1
  [5,3]((2,15,24),(1,8,12),(2,15,26),(3,23,40),(2,16,27)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,13),(6,46,79),(3,23,40),(2,16,27)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,31,53),(6,46,79),(3,23,40)); lvl=5; h,r-ind=1,1
      [3,3]((2,16,27),(4,31,53),(3,23,40)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,13),(2,16,27),(4,31,53)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,13),(4,31,53),(6,46,79)); lvl=5; h,r-ind=1,1
    [3,3]((2,15,26),(6,46,79),(3,23,40)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,13),(2,15,26),(6,46,79),(2,15,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,39),(6,46,79),(2,15,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,25),(3,23,39),(2,15,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,13),(2,15,25),(3,23,39)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,13),(3,23,39),(6,46,79)); lvl=5; h,r-ind=1,1
    [4,3]((2,15,24),(1,8,12),(1,8,13),(2,15,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,37),(1,8,13),(1,8,12)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,24),(3,23,37),(1,8,12)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,25),(3,23,37),(1,8,13)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,24),(2,15,25),(3,23,37)); lvl=5; h,r-ind=1,1
  [4,3]((1,8,12),(2,17,24),(2,17,27),(2,16,27)); lvl=3; h,r-ind=3,1
    [3,3]((1,8,13),(4,34,51),(2,17,27)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((1,8,13),(2,16,27),(2,17,27)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,12),(1,8,13),(2,17,24),(4,34,51)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,13),(2,17,25),(4,33,50)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,12),(2,17,24),(2,17,25),(4,33,50)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,25,37),(2,17,24),(2,17,25)); lvl=6; h,r-ind=1,1
        [3,3]((4,33,50),(3,25,37),(2,17,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,12),(4,33,50),(3,25,37)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,12),(3,25,37),(2,17,24)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,13),(1,8,12),(4,33,50)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,13),(4,34,51),(2,17,25)); lvl=5; h,r-ind=1,1
  [4,3]((4,31,57),(2,17,30),(2,15,27),(1,8,14)); lvl=3; h,r-ind=1,1
    [4,3]((2,16,29),(7,55,99),(2,17,30),(1,8,14)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((1,8,14),(3,24,43),(7,55,99)); lvl=5; h,r-ind=1,1
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          [3,3]((2,16,29),(3,24,43),(7,55,99)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,30),(1,8,14),(3,24,43)); lvl=5; h,r-ind=1,1
          [3,3]((2,16,29),(2,17,30),(3,24,43)); lvl=5; h,r-ind=1,1
        [4,3]((2,15,27),(7,55,99),(4,31,56),(1,8,14)); lvl=4; h,r-ind=1,1
          [3,3]((5,39,70),(7,55,99),(4,31,56)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,27),(5,39,70),(4,31,56)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,14),(5,39,70),(7,55,99)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,27),(1,8,14),(5,39,70)); lvl=5; h,r-ind=1,1
        [4,3]((3,23,42),(2,16,29),(7,55,99),(4,31,56)); lvl=4; h,r-ind=1,1
          [3,3]((6,47,85),(2,16,29),(7,55,99)); lvl=5; h,r-ind=1,1
          [3,3]((6,47,85),(4,31,56),(7,55,99)); lvl=5; h,r-ind=1,1
          [3,3]((3,23,42),(6,47,85),(4,31,56)); lvl=5; h,r-ind=1,1
          [3,3]((3,23,42),(6,47,85),(2,16,29)); lvl=5; h,r-ind=1,1
        [3,3]((4,31,57),(3,23,42),(2,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,27),(3,23,42),(4,31,56)); lvl=4; h,r-ind=1,1
      [4,3]((2,15,26),(3,23,40),(2,15,27),(1,7,13)); lvl=3; h,r-ind=1,1
        [3,3]((2,15,27),(3,23,40),(4,30,53)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,26),(3,23,40),(4,30,53)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,13),(2,15,26),(4,30,53)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,13),(2,15,27),(4,30,53)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,12),(2,15,24),(2,15,26),(1,7,13)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,12),(2,15,25),(2,15,24)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,12),(5,36,63),(3,22,38),(2,15,25)); lvl=4; h,r-ind=1,1
          [3,3]((4,29,50),(5,36,63),(3,22,38)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,25),(4,29,50),(3,22,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,12),(2,15,25),(4,29,50)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,12),(4,29,50),(5,36,63)); lvl=5; h,r-ind=1,1
        [3,3]((3,22,38),(2,15,26),(2,15,25)); lvl=4; h,r-ind=1,1
        [4,3]((5,36,63),(3,22,38),(1,7,13),(2,15,26)); lvl=4; h,r-ind=1,1
          [3,3]((3,22,38),(2,15,26),(4,29,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,13),(2,15,26),(4,29,51)); lvl=5; h,r-ind=1,1
          [3,3]((5,36,63),(3,22,38),(4,29,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,13),(5,36,63),(4,29,51)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,12),(1,6,12),(5,36,63),(1,7,13)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((1,6,12),(2,14,25),(1,7,13)); lvl=5; h,r-ind=1,1
          [3,3]((5,36,63),(2,14,25),(1,7,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,12),(5,36,63),(2,14,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,12),(1,6,12),(2,14,25)); lvl=5; h,r-ind=1,1
      [4,3]((2,14,27),(4,31,57),(2,15,27),(1,7,13)); lvl=3; h,r-ind=1,1
        [4,3]((2,15,28),(4,30,55),(7,52,96),(3,23,42)); lvl=4; h,r-ind=1,1
          [3,3]((7,52,96),(6,45,83),(4,30,55)); lvl=5; h,r-ind=1,1
          [3,3]((3,23,42),(6,45,83),(4,30,55)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,28),(7,52,96),(6,45,83)); lvl=5; h,r-ind=1,1
          [3,3]((3,23,42),(2,15,28),(6,45,83)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,28),(4,31,57),(3,23,42)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,27),(4,30,55),(3,23,42)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,13),(2,15,27),(4,30,55),(7,52,96)); lvl=4; h,r-ind=1,1
          [3,3]((5,37,68),(2,15,27),(4,30,55)); lvl=5; h,r-ind=1,1
          [3,3]((7,52,96),(5,37,68),(4,30,55)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,13),(7,52,96),(5,37,68)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,13),(5,37,68),(2,15,27)); lvl=5; h,r-ind=1,1
        [4,3]((2,14,27),(2,15,28),(1,7,13),(7,52,96)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,15,28),(7,52,96),(3,22,41)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,13),(7,52,96),(3,22,41)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,27),(2,15,28),(3,22,41)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,13),(2,14,27),(3,22,41)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,12),(2,14,27),(1,7,13)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,11,12),(2,22,23)); lvl=1; h,r-ind=1,1
  [3,3]((1,11,23),(0,1,0),(1,11,12)); lvl=1; h,r-ind=11,11; optimized-h
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,2,3),(2,22,23)); lvl=1; h,r-ind=1,1
    [3,3]((1,11,11),(1,6,6),(0,1,0)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,1),(1,6,6),(0,1,0)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((2,22,23),(1,11,11),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((2,12,13),(2,22,23),(1,11,11),(1,6,6)); lvl=2; h,r-ind=5,1; alert-h-inc
      [4,3]((2,22,23),(2,17,18),(1,11,11),(2,17,17)); lvl=3; h,r-ind=5,1
        [3,3]((2,17,18),(2,17,17),(1,9,9)); lvl=4; h,r-ind=1,1
        [4,3]((4,39,41),(2,19,19),(2,17,18),(1,9,9)); lvl=4; h,r-ind=1,1
          [4,3]((2,19,19),(9,84,86),(5,47,48),(1,9,9)); lvl=5; h,r-ind=1,1
            [3,3]((6,56,57),(5,47,48),(9,84,86)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,9),(6,56,57),(9,84,86)); lvl=6; h,r-ind=1,1
            [3,3]((2,19,19),(6,56,57),(5,47,48)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,9),(2,19,19),(6,56,57)); lvl=6; h,r-ind=1,1
          [5,3]((2,17,18),(3,28,29),(4,37,39),(9,84,86),(1,9,9)); lvl=5; h,r-ind=1,1
            [5,3]((7,64,66),(10,92,95),(5,46,48),(9,83,86),(2,18,19)); lvl=6; h,r-ind=1,1
              [3,3]((6,55,57),(9,83,86),(5,46,48)); lvl=7; h,r-ind=1,1
              [3,3]((6,55,57),(2,18,19),(5,46,48)); lvl=7; h,r-ind=1,1
              [3,3]((7,64,66),(6,55,57),(2,18,19)); lvl=7; h,r-ind=1,1
              [3,3]((10,92,95),(6,55,57),(9,83,86)); lvl=7; h,r-ind=1,1
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          [3,3]((10,92,95),(7,64,66),(6,55,57)); lvl=7; h,r-ind=1,1
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          [3,3]((3,27,28),(1,9,9),(2,17,18)); lvl=7; h,r-ind=1,1
          [3,3]((3,27,28),(2,18,19),(2,17,18)); lvl=7; h,r-ind=1,1
          [3,3]((7,64,66),(3,27,28),(2,18,19)); lvl=7; h,r-ind=1,1
          [3,3]((7,64,66),(3,27,28),(1,9,9)); lvl=7; h,r-ind=1,1
        [4,3]((7,64,66),(10,92,95),(4,37,38),(1,9,9)); lvl=6; h,r-ind=1,1
          [3,3]((4,37,38),(10,92,95),(11,101,104)); lvl=7; h,r-ind=1,1
          [3,3]((7,64,66),(10,92,95),(11,101,104)); lvl=7; h,r-ind=1,1
          [3,3]((1,9,9),(7,64,66),(11,101,104)); lvl=7; h,r-ind=1,1
          [3,3]((1,9,9),(4,37,38),(11,101,104)); lvl=7; h,r-ind=1,1
        [4,3]((3,28,29),(10,92,95),(4,37,38),(9,83,86)); lvl=6; h,r-ind=1,1
          [3,3]((13,120,124),(10,92,95),(4,37,38)); lvl=7; h,r-ind=1,1
          [3,3]((3,28,29),(13,120,124),(4,37,38)); lvl=7; h,r-ind=1,1
          [3,3]((9,83,86),(13,120,124),(10,92,95)); lvl=7; h,r-ind=1,1
          [3,3]((3,28,29),(9,83,86),(13,120,124)); lvl=7; h,r-ind=1,1
        [3,3]((3,28,29),(4,37,38),(9,84,86)); lvl=6; h,r-ind=1,1
        [3,3]((4,37,38),(1,9,9),(9,84,86)); lvl=6; h,r-ind=1,1
        [3,3]((4,37,39),(5,46,48),(2,18,19)); lvl=6; h,r-ind=1,1
        [4,3]((3,28,29),(4,37,39),(5,46,48),(9,83,86)); lvl=6; h,r-ind=1,1
          [3,3]((8,74,77),(4,37,39),(5,46,48)); lvl=7; h,r-ind=1,1
          [3,3]((9,83,86),(8,74,77),(5,46,48)); lvl=7; h,r-ind=1,1
          [3,3]((3,28,29),(9,83,86),(8,74,77)); lvl=7; h,r-ind=1,1
          [3,3]((3,28,29),(8,74,77),(4,37,39)); lvl=7; h,r-ind=1,1
      [3,3]((2,19,20),(3,28,29),(4,37,39)); lvl=5; h,r-ind=1,1
      [5,3]((2,19,20),(3,28,29),(3,29,30),(9,84,86),(5,47,48)); lvl=5; h,r-ind=1,1
        [4,3]((3,28,29),(12,113,117),(7,66,68),(8,75,77)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((7,66,68),(12,113,117),(10,94,97)); lvl=7; h,r-ind=1,1
          [3,3]((3,28,29),(12,113,117),(10,94,97)); lvl=7; h,r-ind=1,1
          [3,3]((8,75,77),(7,66,68),(10,94,97)); lvl=7; h,r-ind=1,1
          [3,3]((3,28,29),(8,75,77),(10,94,97)); lvl=7; h,r-ind=1,1
        [4,3]((4,38,39),(5,47,48),(7,66,68),(8,75,77)); lvl=6; h,r-ind=1,1
          [3,3]((12,113,116),(5,47,48),(8,75,77)); lvl=7; h,r-ind=1,1
          [3,3]((7,66,68),(12,113,116),(8,75,77)); lvl=7; h,r-ind=1,1
          [3,3]((4,38,39),(7,66,68),(12,113,116)); lvl=7; h,r-ind=1,1
          [3,3]((4,38,39),(12,113,116),(5,47,48)); lvl=7; h,r-ind=1,1
        [3,3]((3,28,29),(9,84,86),(8,75,77)); lvl=6; h,r-ind=1,1
        [3,3]((5,47,48),(9,84,86),(8,75,77)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,20),(3,28,29),(12,113,117)); lvl=6; h,r-ind=1,1
        [5,3]((2,19,20),(3,29,30),(4,38,39),(12,113,117),(7,66,68)); lvl=6; h,r-ind=1,1
          [4,3]((15,142,147),(13,123,127),(7,66,68),(9,85,88)); lvl=7; h,r-ind=1,1
            [3,3]((13,123,127),(7,66,68),(22,208,215)); lvl=8; h,r-ind=1,1
            [3,3]((9,85,88),(7,66,68),(22,208,215)); lvl=8; h,r-ind=1,1
            [3,3]((15,142,147),(13,123,127),(22,208,215)); lvl=8; h,r-ind=1,1
            [3,3]((9,85,88),(15,142,147),(22,208,215)); lvl=8; h,r-ind=1,1
          [3,3]((12,113,117),(7,66,68),(9,85,88)); lvl=7; h,r-ind=1,1
          [3,3]((2,19,20),(12,113,117),(9,85,88)); lvl=7; h,r-ind=1,1
          [3,3]((2,19,20),(15,142,147),(9,85,88)); lvl=7; h,r-ind=1,1
          [3,3]((13,123,127),(4,38,39),(7,66,68)); lvl=7; h,r-ind=1,1
          [4,3]((6,57,59),(15,142,147),(13,123,127),(4,38,39)); lvl=7; h,r-ind=1,1
            [3,3]((19,180,186),(13,123,127),(15,142,147)); lvl=8; h,r-ind=1,1
            [3,3]((6,57,59),(19,180,186),(15,142,147)); lvl=8; h,r-ind=1,1
            [3,3]((4,38,39),(6,57,59),(19,180,186)); lvl=8; h,r-ind=1,1
            [3,3]((4,38,39),(19,180,186),(13,123,127)); lvl=8; h,r-ind=1,1
          [3,3]((2,19,20),(6,57,59),(15,142,147)); lvl=7; h,r-ind=1,1
          [3,3]((3,29,30),(2,19,20),(6,57,59)); lvl=7; h,r-ind=1,1
          [3,3]((3,29,30),(6,57,59),(4,38,39)); lvl=7; h,r-ind=1,1
      [3,3]((2,19,19),(3,29,30),(5,47,48)); lvl=5; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((4,39,41),(2,19,20),(3,29,30)); lvl=5; h,r-ind=1,1
    [4,3]((2,22,23),(4,39,41),(1,11,11),(2,19,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,29,30),(2,19,19),(1,10,10)); lvl=5; h,r-ind=1,1
      [3,3]((2,20,21),(3,29,30),(1,10,10)); lvl=5; h,r-ind=1,1
      [3,3]((4,41,43),(2,20,21),(1,10,10)); lvl=5; h,r-ind=1,1
      [4,3]((4,41,43),(2,22,23),(1,11,11),(1,10,10)); lvl=5; h,r-ind=1,1
        [4,3]((2,21,22),(4,42,43),(2,22,23),(1,11,11)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((3,32,33),(2,22,23),(1,11,11)); lvl=7; h,r-ind=1,1
          [3,3]((4,42,43),(3,32,33),(1,11,11)); lvl=7; h,r-ind=1,1
          [3,3]((2,21,22),(4,42,43),(3,32,33)); lvl=7; h,r-ind=1,1
          [3,3]((2,21,22),(3,32,33),(2,22,23)); lvl=7; h,r-ind=1,1
        [3,3]((1,10,10),(4,42,43),(1,11,11)); lvl=6; h,r-ind=1,1
        [3,3]((2,21,22),(1,10,10),(4,42,43)); lvl=6; h,r-ind=1,1
        [3,3]((4,41,43),(2,21,22),(1,10,10)); lvl=6; h,r-ind=1,1
      [3,3]((2,20,21),(3,29,30),(4,39,41)); lvl=5; h,r-ind=1,1
  [4,3]((1,6,6),(2,12,13),(2,17,18),(2,17,17)); lvl=3; h,r-ind=5,1
    [4,3]((1,8,8),(2,15,15),(2,17,18),(4,29,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,16),(4,29,31),(3,22,23)); lvl=5; h,r-ind=1,1
      [5,3]((5,38,39),(9,69,71),(2,15,16),(3,23,24),(3,22,23)); lvl=5; h,r-ind=1,1
        [4,3]((3,23,24),(12,91,95),(8,61,63),(7,53,55)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((10,76,79),(7,53,55),(12,91,95)); lvl=7; h,r-ind=1,1
          [3,3]((3,23,24),(10,76,79),(12,91,95)); lvl=7; h,r-ind=1,1
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      [3,3]((10,76,79),(8,61,63),(7,53,55)); lvl=7; h,r-ind=1,1
      [3,3]((3,23,24),(10,76,79),(8,61,63)); lvl=7; h,r-ind=1,1
    [4,3]((4,30,31),(5,38,39),(8,61,63),(7,53,55)); lvl=6; h,r-ind=1,1
      [3,3]((8,61,63),(5,38,39),(12,91,94)); lvl=7; h,r-ind=1,1
      [3,3]((4,30,31),(5,38,39),(12,91,94)); lvl=7; h,r-ind=1,1
      [3,3]((7,53,55),(4,30,31),(12,91,94)); lvl=7; h,r-ind=1,1
      [3,3]((7,53,55),(8,61,63),(12,91,94)); lvl=7; h,r-ind=1,1
    [5,3]((4,30,31),(3,22,23),(2,15,16),(12,91,95),(7,53,55)); lvl=6; h,r-ind=1,1
      [3,3]((6,45,47),(2,15,16),(3,22,23)); lvl=7; h,r-ind=1,1
      [3,3]((4,30,31),(6,45,47),(3,22,23)); lvl=7; h,r-ind=1,1
      [3,3]((4,30,31),(13,98,102),(7,53,55)); lvl=7; h,r-ind=1,1
      [3,3]((15,113,118),(6,45,47),(2,15,16)); lvl=7; h,r-ind=1,1
      [4,3]((4,30,31),(13,98,102),(15,113,118),(6,45,47)); lvl=7; h,r-ind=1,1
        [3,3]((19,143,149),(15,113,118),(13,98,102)); lvl=8; h,r-ind=1,1
        [3,3]((4,30,31),(19,143,149),(13,98,102)); lvl=8; h,r-ind=1,1
        [3,3]((6,45,47),(19,143,149),(15,113,118)); lvl=8; h,r-ind=1,1
        [3,3]((4,30,31),(6,45,47),(19,143,149)); lvl=8; h,r-ind=1,1
      [4,3]((13,98,102),(15,113,118),(9,68,71),(7,53,55)); lvl=7; h,r-ind=1,1
        [3,3]((22,166,173),(9,68,71),(15,113,118)); lvl=8; h,r-ind=1,1
        [3,3]((13,98,102),(22,166,173),(15,113,118)); lvl=8; h,r-ind=1,1
        [3,3]((7,53,55),(13,98,102),(22,166,173)); lvl=8; h,r-ind=1,1
        [3,3]((7,53,55),(22,166,173),(9,68,71)); lvl=8; h,r-ind=1,1
      [3,3]((15,113,118),(9,68,71),(2,15,16)); lvl=7; h,r-ind=1,1
      [3,3]((9,68,71),(2,15,16),(12,91,95)); lvl=7; h,r-ind=1,1
      [3,3]((9,68,71),(7,53,55),(12,91,95)); lvl=7; h,r-ind=1,1
    [3,3]((3,23,24),(9,69,71),(8,61,63)); lvl=6; h,r-ind=1,1
    [3,3]((5,38,39),(9,69,71),(8,61,63)); lvl=6; h,r-ind=1,1
    [3,3]((2,15,16),(3,23,24),(12,91,95)); lvl=6; h,r-ind=1,1
  [3,3]((5,38,39),(2,15,15),(3,22,23)); lvl=5; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,8,8),(5,38,39),(9,69,71),(2,15,15)); lvl=5; h,r-ind=1,1
    [3,3]((9,69,71),(5,38,39),(6,46,47)); lvl=6; h,r-ind=1,1
    [3,3]((2,15,15),(5,38,39),(6,46,47)); lvl=6; h,r-ind=1,1
    [3,3]((1,8,8),(2,15,15),(6,46,47)); lvl=6; h,r-ind=1,1
    [3,3]((1,8,8),(9,69,71),(6,46,47)); lvl=6; h,r-ind=1,1
  [3,3]((2,15,16),(4,31,33),(3,23,24)); lvl=5; h,r-ind=1,1
  [5,3]((2,17,18),(1,8,8),(9,69,71),(4,31,33),(3,23,24)); lvl=5; h,r-ind=1,1
    [3,3]((4,31,32),(3,23,24),(9,69,71)); lvl=6; h,r-ind=1,1
    [3,3]((1,8,8),(4,31,32),(9,69,71)); lvl=6; h,r-ind=1,1
    [4,3]((9,70,73),(10,78,81),(4,31,32),(3,23,24)); lvl=6; h,r-ind=1,1
      [3,3]((13,101,105),(4,31,32),(10,78,81)); lvl=7; h,r-ind=1,1
      [3,3]((9,70,73),(13,101,105),(10,78,81)); lvl=7; h,r-ind=1,1
      [3,3]((3,23,24),(9,70,73),(13,101,105)); lvl=7; h,r-ind=1,1
      [3,3]((3,23,24),(13,101,105),(4,31,32)); lvl=7; h,r-ind=1,1
    [4,3]((5,39,41),(9,70,73),(4,31,33),(3,23,24)); lvl=6; h,r-ind=1,1
      [3,3]((8,62,65),(3,23,24),(9,70,73)); lvl=7; h,r-ind=1,1
      [3,3]((5,39,41),(8,62,65),(9,70,73)); lvl=7; h,r-ind=1,1
      [3,3]((5,39,41),(4,31,33),(8,62,65)); lvl=7; h,r-ind=1,1
      [3,3]((4,31,33),(8,62,65),(3,23,24)); lvl=7; h,r-ind=1,1
    [3,3]((2,16,17),(5,39,41),(4,31,33)); lvl=6; h,r-ind=1,1
    [5,3]((2,16,17),(5,39,41),(7,55,57),(9,70,73),(10,78,81)); lvl=6; h,r-ind=1,1
      [3,3]((10,78,81),(6,47,49),(9,70,73)); lvl=7; h,r-ind=1,1
      [3,3]((5,39,41),(6,47,49),(9,70,73)); lvl=7; h,r-ind=1,1
      [3,3]((2,16,17),(5,39,41),(6,47,49)); lvl=7; h,r-ind=1,1
      [3,3]((7,55,57),(10,78,81),(6,47,49)); lvl=7; h,r-ind=1,1
      [3,3]((2,16,17),(7,55,57),(6,47,49)); lvl=7; h,r-ind=1,1
    [4,3]((7,55,57),(1,8,8),(10,78,81),(4,31,32)); lvl=6; h,r-ind=1,1
      [3,3]((11,86,89),(1,8,8),(4,31,32)); lvl=7; h,r-ind=1,1
      [3,3]((10,78,81),(11,86,89),(4,31,32)); lvl=7; h,r-ind=1,1
      [3,3]((7,55,57),(10,78,81),(11,86,89)); lvl=7; h,r-ind=1,1
      [3,3]((7,55,57),(11,86,89),(1,8,8)); lvl=7; h,r-ind=1,1
    [4,3]((2,17,18),(2,16,17),(7,55,57),(1,8,8)); lvl=6; h,r-ind=1,3; alert-r-inc
      [3,3]((2,16,17),(7,55,57),(3,24,25)); lvl=7; h,r-ind=1,1
      [3,3]((1,8,8),(7,55,57),(3,24,25)); lvl=7; h,r-ind=1,1
      [3,3]((2,17,18),(2,16,17),(3,24,25)); lvl=7; h,r-ind=1,1
      [3,3]((1,8,8),(2,17,18),(3,24,25)); lvl=7; h,r-ind=1,1
[4,3]((1,6,6),(2,15,15),(2,12,13),(4,29,31)); lvl=4; h,r-ind=1,1
  [3,3]((2,14,15),(4,29,31),(3,22,23)); lvl=5; h,r-ind=1,1
  [3,3]((1,7,7),(2,14,15),(3,22,23)); lvl=5; h,r-ind=1,1
  [3,3]((1,7,7),(2,15,15),(3,22,23)); lvl=5; h,r-ind=1,1
  [3,3]((1,7,7),(4,27,29),(2,14,15)); lvl=5; h,r-ind=1,1
  [4,3]((2,12,13),(1,6,6),(1,7,7),(4,27,29)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,6),(4,26,27),(1,7,7)); lvl=6; h,r-ind=1,1
    [3,3]((2,13,14),(4,26,27),(1,7,7)); lvl=6; h,r-ind=1,1
    [3,3]((2,13,14),(4,27,29),(1,7,7)); lvl=6; h,r-ind=1,1
    [4,3]((2,13,14),(2,12,13),(1,6,6),(4,26,27)); lvl=6; h,r-ind=1,2; alert-r-inc
      [3,3]((3,19,20),(1,6,6),(2,12,13)); lvl=7; h,r-ind=1,1
      [3,3]((2,13,14),(3,19,20),(2,12,13)); lvl=7; h,r-ind=1,1
      [3,3]((4,26,27),(3,19,20),(1,6,6)); lvl=7; h,r-ind=1,1
      [3,3]((2,13,14),(4,26,27),(3,19,20)); lvl=7; h,r-ind=1,1
[3,3]((2,17,17),(1,8,8),(2,17,18)); lvl=4; h,r-ind=1,1
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[4,3]((2,2,3),(1,1,1),(2,12,13),(1,6,6)); lvl=2; h,r-ind=5,1; alert-h-inc
  [4,3]((2,12,13),(2,7,8),(1,6,6),(2,7,7)); lvl=3; h,r-ind=5,1
    [3,3]((2,7,8),(2,7,7),(1,4,4)); lvl=4; h,r-ind=1,1
    [4,3]((4,19,21),(2,9,9),(2,7,8),(1,4,4)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,9),(9,39,41),(5,22,23),(1,4,4)); lvl=5; h,r-ind=1,1
        [3,3]((6,26,27),(5,22,23),(9,39,41)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,4),(6,26,27),(9,39,41)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,9),(6,26,27),(5,22,23)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,4),(2,9,9),(6,26,27)); lvl=6; h,r-ind=1,1
      [5,3]((2,7,8),(3,13,14),(4,17,19),(9,39,41),(1,4,4)); lvl=5; h,r-ind=1,1
        [5,3]((7,29,31),(10,42,45),(5,21,23),(9,38,41),(2,8,9)); lvl=6; h,r-ind=1,1
          [3,3]((6,25,27),(9,38,41),(10,42,45)); lvl=7; h,r-ind=1,1
          [3,3]((7,29,31),(6,25,27),(10,42,45)); lvl=7; h,r-ind=1,1
          [3,3]((6,25,27),(9,38,41),(5,21,23)); lvl=7; h,r-ind=1,1
          [3,3]((2,8,9),(6,25,27),(5,21,23)); lvl=7; h,r-ind=1,1
          [3,3]((7,29,31),(2,8,9),(6,25,27)); lvl=7; h,r-ind=1,1
        [4,3]((7,29,31),(1,4,4),(2,7,8),(2,8,9)); lvl=6; h,r-ind=1,3; alert-r-inc
          [3,3]((3,12,13),(1,4,4),(2,7,8)); lvl=7; h,r-ind=1,1
          [3,3]((3,12,13),(2,8,9),(2,7,8)); lvl=7; h,r-ind=1,1
          [3,3]((7,29,31),(3,12,13),(2,8,9)); lvl=7; h,r-ind=1,1
          [3,3]((7,29,31),(3,12,13),(1,4,4)); lvl=7; h,r-ind=1,1
        [4,3]((3,13,14),(10,42,45),(4,17,18),(9,38,41)); lvl=6; h,r-ind=1,1
          [3,3]((13,55,59),(10,42,45),(4,17,18)); lvl=7; h,r-ind=1,1
          [3,3]((3,13,14),(13,55,59),(4,17,18)); lvl=7; h,r-ind=1,1
          [3,3]((9,38,41),(13,55,59),(10,42,45)); lvl=7; h,r-ind=1,1
          [3,3]((3,13,14),(9,38,41),(13,55,59)); lvl=7; h,r-ind=1,1
        [3,3]((3,13,14),(9,39,41),(4,17,18)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,4),(9,39,41),(4,17,18)); lvl=6; h,r-ind=1,1
        [4,3]((7,29,31),(10,42,45),(1,4,4),(4,17,18)); lvl=6; h,r-ind=1,1
          [3,3]((4,17,18),(10,42,45),(11,46,49)); lvl=7; h,r-ind=1,1
          [3,3]((7,29,31),(10,42,45),(11,46,49)); lvl=7; h,r-ind=1,1
          [3,3]((1,4,4),(7,29,31),(11,46,49)); lvl=7; h,r-ind=1,1
          [3,3]((1,4,4),(4,17,18),(11,46,49)); lvl=7; h,r-ind=1,1
        [3,3]((4,17,19),(5,21,23),(2,8,9)); lvl=6; h,r-ind=1,1
        [4,3]((3,13,14),(4,17,19),(5,21,23),(9,38,41)); lvl=6; h,r-ind=1,1
          [3,3]((8,34,37),(4,17,19),(5,21,23)); lvl=7; h,r-ind=1,1
          [3,3]((9,38,41),(8,34,37),(5,21,23)); lvl=7; h,r-ind=1,1
          [3,3]((3,13,14),(9,38,41),(8,34,37)); lvl=7; h,r-ind=1,1
          [3,3]((3,13,14),(8,34,37),(4,17,19)); lvl=7; h,r-ind=1,1
      [3,3]((2,9,10),(3,13,14),(4,17,19)); lvl=5; h,r-ind=1,1
      [5,3]((2,9,10),(3,13,14),(3,14,15),(9,39,41),(5,22,23)); lvl=5; h,r-ind=1,1
        [4,3]((3,13,14),(12,53,57),(7,31,33),(8,35,37)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((12,53,57),(7,31,33),(10,44,47)); lvl=7; h,r-ind=1,1
          [3,3]((8,35,37),(7,31,33),(10,44,47)); lvl=7; h,r-ind=1,1
          [3,3]((3,13,14),(8,35,37),(10,44,47)); lvl=7; h,r-ind=1,1
          [3,3]((3,13,14),(12,53,57),(10,44,47)); lvl=7; h,r-ind=1,1
        [4,3]((4,18,19),(5,22,23),(7,31,33),(8,35,37)); lvl=6; h,r-ind=1,1
          [3,3]((12,53,56),(5,22,23),(8,35,37)); lvl=7; h,r-ind=1,1
          [3,3]((7,31,33),(12,53,56),(8,35,37)); lvl=7; h,r-ind=1,1
          [3,3]((4,18,19),(7,31,33),(12,53,56)); lvl=7; h,r-ind=1,1
          [3,3]((4,18,19),(12,53,56),(5,22,23)); lvl=7; h,r-ind=1,1
        [3,3]((3,13,14),(9,39,41),(8,35,37)); lvl=6; h,r-ind=1,1
        [3,3]((5,22,23),(9,39,41),(8,35,37)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,10),(3,13,14),(12,53,57)); lvl=6; h,r-ind=1,1
        [5,3]((2,9,10),(3,14,15),(4,18,19),(12,53,57),(7,31,33)); lvl=6; h,r-ind=1,1
          [3,3]((7,31,33),(4,18,19),(13,58,62)); lvl=7; h,r-ind=1,1
          [4,3]((15,67,72),(6,27,29),(4,18,19),(13,58,62)); lvl=7; h,r-ind=1,1
            [3,3]((6,27,29),(4,18,19),(19,85,91)); lvl=8; h,r-ind=1,1
            [3,3]((13,58,62),(4,18,19),(19,85,91)); lvl=8; h,r-ind=1,1
            [3,3]((15,67,72),(6,27,29),(19,85,91)); lvl=8; h,r-ind=1,1
            [3,3]((13,58,62),(15,67,72),(19,85,91)); lvl=8; h,r-ind=1,1
          [3,3]((2,9,10),(15,67,72),(6,27,29)); lvl=7; h,r-ind=1,1
          [3,3]((6,27,29),(3,14,15),(4,18,19)); lvl=7; h,r-ind=1,1
          [3,3]((2,9,10),(6,27,29),(3,14,15)); lvl=7; h,r-ind=1,1
          [4,3]((15,67,72),(9,40,43),(7,31,33),(13,58,62)); lvl=7; h,r-ind=1,1
            [3,3]((9,40,43),(7,31,33),(22,98,105)); lvl=8; h,r-ind=1,1
            [3,3]((13,58,62),(7,31,33),(22,98,105)); lvl=8; h,r-ind=1,1
            [3,3]((15,67,72),(9,40,43),(22,98,105)); lvl=8; h,r-ind=1,1
            [3,3]((13,58,62),(15,67,72),(22,98,105)); lvl=8; h,r-ind=1,1
          [3,3]((2,9,10),(15,67,72),(9,40,43)); lvl=7; h,r-ind=1,1
          [3,3]((12,53,57),(9,40,43),(7,31,33)); lvl=7; h,r-ind=1,1
          [3,3]((2,9,10),(12,53,57),(9,40,43)); lvl=7; h,r-ind=1,1
      [3,3]((2,9,9),(3,14,15),(5,22,23)); lvl=5; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((4,19,21),(2,9,10),(3,14,15)); lvl=5; h,r-ind=1,1
    [4,3]((2,12,13),(4,19,21),(1,6,6),(2,9,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,15),(2,9,9),(1,5,5)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,11),(3,14,15),(1,5,5)); lvl=5; h,r-ind=1,1
      [3,3]((4,21,23),(2,10,11),(1,5,5)); lvl=5; h,r-ind=1,1
      [4,3]((4,21,23),(2,12,13),(1,6,6),(1,5,5)); lvl=5; h,r-ind=1,1
        [4,3]((2,11,12),(4,22,23),(2,12,13),(1,6,6)); lvl=6; h,r-ind=1,2; alert-r-inc
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          [3,3]((3,17,18),(2,12,13),(1,6,6)); lvl=7; h,r-ind=1,1
          [3,3]((4,22,23),(3,17,18),(1,6,6)); lvl=7; h,r-ind=1,1
          [3,3]((2,11,12),(4,22,23),(3,17,18)); lvl=7; h,r-ind=1,1
          [3,3]((2,11,12),(3,17,18),(2,12,13)); lvl=7; h,r-ind=1,1
        [3,3]((1,5,5),(4,22,23),(1,6,6)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,12),(1,5,5),(4,22,23)); lvl=6; h,r-ind=1,1
        [3,3]((4,21,23),(2,11,12),(1,5,5)); lvl=6; h,r-ind=1,1
      [3,3]((2,10,11),(3,14,15),(4,19,21)); lvl=5; h,r-ind=1,1
[4,3]((1,1,1),(2,2,3),(2,7,8),(2,7,7)); lvl=3; h,r-ind=5,1
  [4,3]((1,3,3),(2,5,5),(2,7,8),(4,9,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,6),(4,9,11),(3,7,8)); lvl=5; h,r-ind=1,1
    [5,3]((5,13,14),(9,24,26),(2,5,6),(3,8,9),(3,7,8)); lvl=5; h,r-ind=1,1
      [4,3]((3,8,9),(12,31,35),(8,21,23),(7,18,20)); lvl=6; h,r-ind=1,2; alert-r-inc
        [3,3]((10,26,29),(7,18,20),(12,31,35)); lvl=7; h,r-ind=1,1
        [3,3]((3,8,9),(10,26,29),(12,31,35)); lvl=7; h,r-ind=1,1
        [3,3]((8,21,23),(10,26,29),(7,18,20)); lvl=7; h,r-ind=1,1
        [3,3]((3,8,9),(8,21,23),(10,26,29)); lvl=7; h,r-ind=1,1
      [4,3]((4,10,11),(5,13,14),(8,21,23),(7,18,20)); lvl=6; h,r-ind=1,1
        [3,3]((8,21,23),(5,13,14),(12,31,34)); lvl=7; h,r-ind=1,1
        [3,3]((4,10,11),(5,13,14),(12,31,34)); lvl=7; h,r-ind=1,1
        [3,3]((7,18,20),(4,10,11),(12,31,34)); lvl=7; h,r-ind=1,1
        [3,3]((7,18,20),(8,21,23),(12,31,34)); lvl=7; h,r-ind=1,1
      [5,3]((4,10,11),(3,7,8),(2,5,6),(12,31,35),(7,18,20)); lvl=6; h,r-ind=1,1
        [3,3]((6,15,17),(2,5,6),(3,7,8)); lvl=7; h,r-ind=1,1
        [3,3]((4,10,11),(6,15,17),(3,7,8)); lvl=7; h,r-ind=1,1
        [3,3]((4,10,11),(13,33,37),(7,18,20)); lvl=7; h,r-ind=1,1
        [3,3]((15,38,43),(6,15,17),(2,5,6)); lvl=7; h,r-ind=1,1
        [4,3]((4,10,11),(13,33,37),(15,38,43),(6,15,17)); lvl=7; h,r-ind=1,1
          [3,3]((19,48,54),(15,38,43),(13,33,37)); lvl=8; h,r-ind=1,1
          [3,3]((4,10,11),(19,48,54),(13,33,37)); lvl=8; h,r-ind=1,1
          [3,3]((6,15,17),(19,48,54),(15,38,43)); lvl=8; h,r-ind=1,1
          [3,3]((4,10,11),(6,15,17),(19,48,54)); lvl=8; h,r-ind=1,1
        [4,3]((13,33,37),(15,38,43),(9,23,26),(7,18,20)); lvl=7; h,r-ind=1,1
          [3,3]((22,56,63),(9,23,26),(15,38,43)); lvl=8; h,r-ind=1,1
          [3,3]((13,33,37),(22,56,63),(15,38,43)); lvl=8; h,r-ind=1,1
          [3,3]((7,18,20),(13,33,37),(22,56,63)); lvl=8; h,r-ind=1,1
          [3,3]((7,18,20),(22,56,63),(9,23,26)); lvl=8; h,r-ind=1,1
        [3,3]((15,38,43),(9,23,26),(2,5,6)); lvl=7; h,r-ind=1,1
        [3,3]((9,23,26),(2,5,6),(12,31,35)); lvl=7; h,r-ind=1,1
        [3,3]((9,23,26),(7,18,20),(12,31,35)); lvl=7; h,r-ind=1,1
      [3,3]((3,8,9),(9,24,26),(8,21,23)); lvl=6; h,r-ind=1,1
      [3,3]((5,13,14),(9,24,26),(8,21,23)); lvl=6; h,r-ind=1,1
      [3,3]((2,5,6),(3,8,9),(12,31,35)); lvl=6; h,r-ind=1,1
    [3,3]((5,13,14),(2,5,5),(3,7,8)); lvl=5; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,3,3),(5,13,14),(9,24,26),(2,5,5)); lvl=5; h,r-ind=1,1
      [3,3]((9,24,26),(5,13,14),(6,16,17)); lvl=6; h,r-ind=1,1
      [3,3]((2,5,5),(5,13,14),(6,16,17)); lvl=6; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,5),(6,16,17)); lvl=6; h,r-ind=1,1
      [3,3]((1,3,3),(9,24,26),(6,16,17)); lvl=6; h,r-ind=1,1
    [3,3]((2,5,6),(4,11,13),(3,8,9)); lvl=5; h,r-ind=1,1
    [5,3]((2,7,8),(1,3,3),(9,24,26),(4,11,13),(3,8,9)); lvl=5; h,r-ind=1,1
      [4,3]((4,11,13),(9,25,28),(5,14,16),(3,8,9)); lvl=6; h,r-ind=1,1
        [3,3]((5,14,16),(9,25,28),(8,22,25)); lvl=7; h,r-ind=1,1
        [3,3]((3,8,9),(9,25,28),(8,22,25)); lvl=7; h,r-ind=1,1
        [3,3]((4,11,13),(5,14,16),(8,22,25)); lvl=7; h,r-ind=1,1
        [3,3]((3,8,9),(4,11,13),(8,22,25)); lvl=7; h,r-ind=1,1
      [4,3]((4,11,12),(10,28,31),(9,25,28),(3,8,9)); lvl=6; h,r-ind=1,1
        [3,3]((10,28,31),(9,25,28),(13,36,40)); lvl=7; h,r-ind=1,1
        [3,3]((3,8,9),(9,25,28),(13,36,40)); lvl=7; h,r-ind=1,1
        [3,3]((4,11,12),(3,8,9),(13,36,40)); lvl=7; h,r-ind=1,1
        [3,3]((4,11,12),(10,28,31),(13,36,40)); lvl=7; h,r-ind=1,1
      [3,3]((9,24,26),(4,11,12),(3,8,9)); lvl=6; h,r-ind=1,1
      [3,3]((1,3,3),(9,24,26),(4,11,12)); lvl=6; h,r-ind=1,1
      [4,3]((1,3,3),(7,20,22),(4,11,12),(10,28,31)); lvl=6; h,r-ind=1,1
        [3,3]((7,20,22),(10,28,31),(11,31,34)); lvl=7; h,r-ind=1,1
        [3,3]((4,11,12),(10,28,31),(11,31,34)); lvl=7; h,r-ind=1,1
        [3,3]((1,3,3),(4,11,12),(11,31,34)); lvl=7; h,r-ind=1,1
        [3,3]((1,3,3),(7,20,22),(11,31,34)); lvl=7; h,r-ind=1,1
      [5,3]((7,20,22),(2,6,7),(10,28,31),(9,25,28),(5,14,16)); lvl=6; h,r-ind=1,1
        [3,3]((6,17,19),(9,25,28),(5,14,16)); lvl=7; h,r-ind=1,1
        [3,3]((2,6,7),(6,17,19),(5,14,16)); lvl=7; h,r-ind=1,1
        [3,3]((7,20,22),(2,6,7),(6,17,19)); lvl=7; h,r-ind=1,1
        [3,3]((6,17,19),(10,28,31),(9,25,28)); lvl=7; h,r-ind=1,1
        [3,3]((7,20,22),(6,17,19),(10,28,31)); lvl=7; h,r-ind=1,1
      [3,3]((4,11,13),(2,6,7),(5,14,16)); lvl=6; h,r-ind=1,1
      [4,3]((1,3,3),(2,7,8),(7,20,22),(2,6,7)); lvl=6; h,r-ind=1,3; alert-r-inc
        [3,3]((2,7,8),(3,9,10),(2,6,7)); lvl=7; h,r-ind=1,1
        [3,3]((7,20,22),(3,9,10),(2,6,7)); lvl=7; h,r-ind=1,1
        [3,3]((1,3,3),(7,20,22),(3,9,10)); lvl=7; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(3,9,10)); lvl=7; h,r-ind=1,1
```

```
        [4,3]((1,1,1),(2,5,5),(2,2,3),(4,9,11)); lvl=4; h,r-ind=1,1
          [3,3]((2,4,5),(4,9,11),(3,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(2,4,5),(3,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(2,5,5),(3,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(4,7,9),(2,4,5)); lvl=5; h,r-ind=1,1
          [4,3]((2,2,3),(1,1,1),(1,2,2),(4,7,9)); lvl=5; h,r-ind=1,1
            [3,3]((1,1,1),(4,6,7),(1,2,2)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,4),(4,6,7),(1,2,2)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,4),(4,7,9),(1,2,2)); lvl=6; h,r-ind=1,1
            [4,3]((2,2,3),(2,3,4),(1,1,1),(4,6,7)); lvl=6; h,r-ind=1,2; alert-r-inc
              [3,3]((3,4,5),(2,3,4),(4,6,7)); lvl=7; h,r-ind=1,1
              [3,3]((3,4,5),(1,1,1),(4,6,7)); lvl=7; h,r-ind=1,1
              [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=7; h,r-ind=1,1
              [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=7; h,r-ind=1,1
        [3,3]((2,7,7),(1,3,3),(2,7,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
```

23.24 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,2,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,1,11),(1,0,0),(1,1,6)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,1,6)); lvl=1; h,r-ind=6,36; optimized-h
  [3,3]((0,1,0),(1,1,11),(1,1,6)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((2,2,23),(0,1,0),(1,1,11)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,23),(1,1,11),(1,0,0)); lvl=1; h,r-ind=1,1
```

23.25 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,23)); lvl=0; h,r-ind=23,529
  [5,3]((0,1,0),(4,6,23),(1,2,6),(1,0,0),(1,1,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,11),(1,2,6),(4,6,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,11),(1,1,4),(4,6,23)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,16),(2,3,11),(4,6,21),(1,2,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,27),(4,6,21),(2,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(5,8,27),(2,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,16),(1,2,6),(5,8,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,16),(5,8,27),(4,6,21)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(3,5,16),(1,2,5),(1,2,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,11),(3,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(2,4,11),(3,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,5),(2,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(0,1,0),(2,4,11)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,16),(2,3,9),(1,2,5),(4,6,21)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,10),(1,2,5),(2,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,31),(2,3,10),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,16),(6,10,31),(1,2,5)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,16),(6,10,31),(2,3,10),(4,6,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,10),(5,8,26),(6,10,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,16),(5,8,26),(6,10,31)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,21),(2,3,10),(5,8,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,16),(4,6,21),(5,8,26)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(2,3,9),(2,3,6),(1,2,5)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,4),(1,2,3),(2,3,6),(4,6,15)); lvl=3; h,r-ind=1,1
        [4,3]((2,3,7),(1,2,3),(2,3,6),(4,7,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,10),(2,3,6),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,14),(3,5,10),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,7),(4,7,14),(3,5,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,7),(3,5,10),(2,3,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(2,3,7),(4,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(2,3,7),(4,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(1,2,3),(4,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,9),(4,6,15)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,2,4),(1,2,5),(2,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,4),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,11),(4,6,21),(3,4,14),(1,1,4)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,25),(3,4,14),(4,6,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,11),(5,7,25),(4,6,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(2,3,11),(5,7,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(5,7,25),(3,4,14)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,14),(2,2,7),(4,5,17),(1,1,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,7),(4,5,17),(5,6,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,14),(4,5,17),(5,6,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(3,4,14),(5,6,21)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,1,4),(2,2,7),(5,6,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,7),(1,1,4)); lvl=2; h,r-ind=1,1
    [5,3]((2,3,9),(2,3,6),(1,0,0),(2,2,7),(4,5,17)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,6),(4,6,15),(1,1,2),(1,1,3)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,3),(1,1,2),(4,5,12)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,7),(2,3,6),(1,1,2),(4,5,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,9),(1,1,2),(2,3,6)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,7),(3,4,9),(2,3,6)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,12),(3,4,9),(1,1,2)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,7),(4,5,12),(3,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,7),(1,1,3),(4,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(2,3,7),(1,1,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(4,6,15),(1,1,3)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,3,9),(3,4,13),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(4,5,17),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,17),(2,2,7),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,7),(1,1,3)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,6),(1,0,0)); lvl=2; h,r-ind=6,6; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,3,9),(4,6,21),(3,4,14),(4,5,17)); lvl=2; h,r-ind=1,1
      [4,3]((4,5,17),(11,15,51),(6,8,27),(3,4,14)); lvl=3; h,r-ind=1,1
        [3,3]((6,8,27),(9,12,41),(11,15,51)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,14),(9,12,41),(11,15,51)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,17),(6,8,27),(9,12,41)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,14),(4,5,17),(9,12,41)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,10),(4,6,21),(11,15,51),(3,4,14)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((5,7,24),(3,4,14),(4,6,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(5,7,24),(4,6,21)); lvl=4; h,r-ind=1,1
        [3,3]((11,15,51),(5,7,24),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(11,15,51),(5,7,24)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,13),(2,3,10),(11,15,51),(6,8,27)); lvl=3; h,r-ind=1,1
        [3,3]((8,11,37),(2,3,10),(11,15,51)); lvl=4; h,r-ind=1,1
        [3,3]((8,11,37),(6,8,27),(11,15,51)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,13),(8,11,37),(6,8,27)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,13),(8,11,37),(2,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,17),(3,4,13),(6,8,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(2,3,9),(2,3,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,7),(1,0,0),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,7),(3,3,22),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,23),(4,5,37),(3,3,22),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,37),(2,2,15),(3,3,22)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,15),(3,3,22)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,30),(4,5,37),(2,2,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,23),(3,4,30),(2,2,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,23),(2,2,15)); lvl=2; h,r-ind=1,1
  [5,3]((2,3,20),(3,4,28),(1,1,7),(4,6,23),(1,1,4)); lvl=1; h,r-ind=1,1
    [4,3]((3,4,27),(6,8,43),(1,1,7),(2,2,11)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,27),(2,2,11),(1,1,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,22),(4,5,27),(1,1,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,22),(3,4,24),(1,1,6)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((3,4,27),(3,4,24),(1,1,7),(1,1,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,7),(1,1,6),(6,7,45)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,24),(6,8,51),(1,1,6),(6,7,45)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((1,1,6),(4,5,32),(9,11,69),(6,7,45)); lvl=5; h,r-ind=1,3
            [3,3]((9,11,69),(5,6,38),(4,5,32)); lvl=6; h,r-ind=1,1
            [3,3]((6,7,45),(5,6,38),(4,5,32)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,6),(6,7,45),(5,6,38)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,6),(9,11,69),(5,6,38)); lvl=6; h,r-ind=1,1
          [3,3]((3,4,25),(4,5,32),(9,11,69)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,1,6),(3,4,24),(3,4,25),(9,11,69)); lvl=5; h,r-ind=1,3
            [3,3]((3,4,24),(4,5,31),(3,4,25)); lvl=6; h,r-ind=1,1
            [3,3]((9,11,69),(4,5,31),(3,4,25)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,6),(9,11,69),(4,5,31)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,6),(3,4,24),(4,5,31)); lvl=6; h,r-ind=1,1
          [3,3]((3,4,25),(6,8,51),(4,5,32)); lvl=5; h,r-ind=1,1
        [4,3]((3,4,27),(6,8,51),(1,1,7),(6,7,45)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((1,1,7),(4,5,32),(9,11,72),(6,7,45)); lvl=5; h,r-ind=1,3
            [3,3]((5,6,39),(9,11,72),(4,5,32)); lvl=6; h,r-ind=1,1
            [3,3]((6,7,45),(5,6,39),(4,5,32)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,7),(6,7,45),(5,6,39)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,7),(5,6,39),(9,11,72)); lvl=6; h,r-ind=1,1
          [3,3]((3,4,26),(4,5,32),(9,11,72)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,1,7),(3,4,27),(3,4,26),(9,11,72)); lvl=5; h,r-ind=1,3
            [3,3]((4,5,33),(3,4,26),(3,4,27)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,7),(4,5,33),(3,4,27)); lvl=6; h,r-ind=1,1
            [3,3]((9,11,72),(4,5,33),(3,4,26)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,7),(9,11,72),(4,5,33)); lvl=6; h,r-ind=1,1
          [3,3]((6,8,51),(3,4,26),(4,5,32)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,22),(6,8,43),(4,5,27)); lvl=3; h,r-ind=1,1
    [5,3]((2,3,12),(4,6,31),(6,8,43),(1,1,4),(2,2,11)); lvl=2; h,r-ind=1,1
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    [4,3]((5,7,37),(3,4,21),(6,8,43),(4,5,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,21),(4,5,27),(9,12,64)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,43),(4,5,27),(9,12,64)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,37),(3,4,21),(9,12,64)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,43),(5,7,37),(9,12,64)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,21),(1,1,5),(2,2,11),(4,5,27)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,32),(2,2,11),(1,1,5)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,21),(5,6,32),(1,1,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,27),(5,6,32),(2,2,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,21),(4,5,27),(5,6,32)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,15),(2,3,14),(3,4,21),(1,1,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,20),(1,1,5),(2,3,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,15),(3,4,20),(2,3,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,15),(3,4,21),(3,4,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,21),(3,4,20),(1,1,5)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,12),(2,3,14),(1,1,4),(1,1,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(1,1,5),(4,5,22)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,13),(2,3,14),(1,1,5),(4,5,22)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,1,5),(3,4,18),(2,3,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,13),(3,4,18),(2,3,14)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,22),(2,3,13),(3,4,18)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,22),(1,1,5),(3,4,18)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,12),(2,3,13),(1,1,4),(4,5,22)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,17),(4,5,22),(2,3,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,12),(3,4,17),(2,3,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(2,3,12),(3,4,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,4),(3,4,17),(4,5,22)); lvl=5; h,r-ind=1,1
    [4,3]((4,6,31),(5,7,37),(2,3,15),(3,4,21)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,52),(3,4,21),(5,7,37)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,31),(7,10,52),(5,7,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,15),(7,10,52),(3,4,21)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,31),(2,3,15),(7,10,52)); lvl=4; h,r-ind=1,1
  [3,3]((2,3,12),(4,6,23),(1,1,4)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,20),(3,4,27),(4,6,31),(6,8,43)); lvl=2; h,r-ind=1,1
    [3,3]((6,8,43),(3,4,22),(5,7,37)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,16),(3,4,22),(5,7,37)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,31),(2,3,16),(5,7,37)); lvl=3; h,r-ind=1,1
    [4,3]((4,6,35),(2,3,16),(3,4,24),(3,4,22)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,17),(2,3,16),(3,4,22),(3,4,23)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,39),(3,4,22),(2,3,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,17),(5,7,39),(2,3,16)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,23),(2,3,17),(5,7,39)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,23),(5,7,39),(3,4,22)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,17),(3,4,24),(3,4,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,17),(4,6,35),(3,4,24)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,20),(4,6,35),(3,4,27),(3,4,24)); lvl=3; h,r-ind=1,1
      [4,3]((4,6,37),(2,3,20),(3,4,27),(6,8,51)); lvl=4; h,r-ind=3,1; alert-h-inc
        [4,3]((2,3,19),(2,3,20),(3,4,26),(3,4,27)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,46),(3,4,27),(3,4,26)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,19),(5,7,46),(3,4,26)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,20),(5,7,46),(3,4,27)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,19),(2,3,20),(5,7,46)); lvl=6; h,r-ind=1,1
        [3,3]((5,7,44),(2,3,19),(3,4,26)); lvl=5; h,r-ind=1,1
        [3,3]((6,8,51),(5,7,44),(3,4,26)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,37),(5,7,44),(2,3,19)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,18),(4,6,37),(3,4,24),(6,8,51)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,44),(3,4,25),(6,8,51)); lvl=5; h,r-ind=1,1
        [4,3]((5,7,44),(7,10,62),(12,17,105),(3,4,25)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,62),(12,17,105),(10,14,87)); lvl=6; h,r-ind=1,1
          [3,3]((3,4,25),(12,17,105),(10,14,87)); lvl=6; h,r-ind=1,1
          [3,3]((5,7,44),(7,10,62),(10,14,87)); lvl=6; h,r-ind=1,1
          [3,3]((3,4,25),(5,7,44),(10,14,87)); lvl=6; h,r-ind=1,1
        [4,3]((2,3,18),(12,17,105),(3,4,24),(3,4,25)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((3,4,25),(3,4,24),(5,7,43)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,18),(3,4,24),(5,7,43)); lvl=6; h,r-ind=1,1
          [3,3]((12,17,105),(3,4,25),(5,7,43)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,18),(12,17,105),(5,7,43)); lvl=6; h,r-ind=1,1
        [3,3]((4,6,37),(5,7,44),(7,10,62)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,18),(4,6,37),(7,10,62),(12,17,105)); lvl=5; h,r-ind=1,1
          [3,3]((9,13,80),(7,10,62),(4,6,37)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,18),(9,13,80),(4,6,37)); lvl=6; h,r-ind=1,1
          [3,3]((9,13,80),(12,17,105),(7,10,62)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,18),(9,13,80),(12,17,105)); lvl=6; h,r-ind=1,1
      [3,3]((2,3,18),(4,6,35),(3,4,24)); lvl=4; h,r-ind=1,1
  [3,3]((3,4,27),(3,4,28),(1,1,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,20),(3,4,27),(3,4,28)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(3,5,33),(3,5,31),(1,2,10)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,10),(4,7,42),(6,11,63),(3,5,31)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,52),(6,11,63),(4,7,42)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,31),(5,9,52),(4,7,42)); lvl=3; h,r-ind=1,1
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      [3,3]((1,2,10),(3,5,31),(5,9,52)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,10),(5,9,52),(6,11,63)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,32),(4,7,42),(3,5,31)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,11),(3,5,32),(4,7,42),(6,11,63)); lvl=2; h,r-ind=1,1
      [3,3]((5,9,53),(3,5,32),(4,7,42)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,63),(5,9,53),(4,7,42)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,11),(6,11,63),(5,9,53)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,11),(5,9,53),(3,5,32)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,10),(0,1,0),(1,2,11),(6,11,63)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,4,21),(0,1,0),(1,2,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,63),(2,4,21),(1,2,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,10),(6,11,63),(2,4,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,10),(2,4,21),(0,1,0)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,11),(3,5,33),(3,5,32)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,23),(0,1,0),(3,5,33)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((2,3,20),(2,3,22),(3,5,33),(3,5,31)); lvl=1; h,r-ind=2,1
    [4,3]((2,3,21),(2,3,22),(3,5,33),(3,5,32)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,33),(2,3,22),(5,8,54)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,21),(2,3,22),(5,8,54)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,32),(2,3,21),(5,8,54)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,32),(3,5,33),(5,8,54)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,20),(3,5,31),(2,3,21),(3,5,32)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,52),(3,5,32),(3,5,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,20),(5,8,52),(3,5,31)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,52),(2,3,21),(3,5,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,20),(5,8,52),(2,3,21)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,23),(2,3,22),(3,5,33)); lvl=1; h,r-ind=1,1
  [5,3]((3,4,29),(3,4,28),(4,5,37),(1,1,7),(3,3,22)); lvl=1; h,r-ind=1,1
    [3,3]((6,7,51),(1,1,7),(3,3,22)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,51),(4,5,37),(3,3,22)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((6,7,51),(9,11,80),(8,10,73),(4,5,37)); lvl=2; h,r-ind=1,1
      [3,3]((9,11,80),(8,10,73),(22,27,197)); lvl=3; h,r-ind=1,1
      [4,3]((5,6,44),(4,5,37),(8,10,73),(22,27,197)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((13,16,117),(4,5,37),(8,10,73)); lvl=4; h,r-ind=1,1
        [3,3]((22,27,197),(13,16,117),(8,10,73)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,44),(22,27,197),(13,16,117)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,44),(13,16,117),(4,5,37)); lvl=4; h,r-ind=1,1
      [4,3]((6,7,51),(5,6,44),(9,11,80),(22,27,197)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,6,44),(22,27,197),(14,17,124)); lvl=4; h,r-ind=1,1
        [3,3]((9,11,80),(22,27,197),(14,17,124)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,51),(9,11,80),(14,17,124)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,51),(5,6,44),(14,17,124)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,29),(8,10,73),(4,5,37)); lvl=2; h,r-ind=1,1
    [4,3]((6,7,51),(9,11,80),(4,5,36),(1,1,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,36),(9,11,80),(10,12,87)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,51),(9,11,80),(10,12,87)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,7),(6,7,51),(10,12,87)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,7),(4,5,36),(10,12,87)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,28),(4,5,36),(1,1,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,29),(3,4,28),(4,5,36)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,29),(9,11,80),(4,5,36),(8,10,73)); lvl=2; h,r-ind=1,1
      [3,3]((12,15,109),(9,11,80),(4,5,36)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,29),(12,15,109),(4,5,36)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,73),(3,4,29),(12,15,109)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,73),(12,15,109),(9,11,80)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,23),(2,3,22),(3,4,29),(4,5,37)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,29),(2,3,22),(8,11,81)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,30),(2,3,23),(2,3,22),(8,11,81)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,23),(5,7,52),(2,3,22)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,81),(5,7,52),(2,3,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,30),(8,11,81),(5,7,52)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,30),(2,3,23),(5,7,52)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,37),(3,4,30),(3,4,29),(8,11,81)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,8,59),(3,4,30),(8,11,81)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,29),(6,8,59),(8,11,81)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,37),(6,8,59),(3,4,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,29),(4,5,37),(6,8,59)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,20),(2,3,22),(3,4,29),(3,4,28)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,21),(8,11,78),(3,4,29),(2,3,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,29),(5,7,50),(8,11,78)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,21),(5,7,50),(8,11,78)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,22),(2,3,21),(5,7,50)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,22),(3,4,29),(5,7,50)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,28),(8,11,78),(3,4,29)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,21),(2,3,20),(3,4,28),(8,11,78)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,7,49),(3,4,28),(2,3,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,21),(5,7,49),(2,3,20)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,78),(5,7,49),(3,4,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,21),(8,11,78),(5,7,49)); lvl=3; h,r-ind=1,1
  [5,3]((2,3,20),(3,5,31),(4,6,23),(1,2,10),(1,2,6)); lvl=1; h,r-ind=1,1
```

```
[5,3]((2,3,12),(4,6,31),(1,2,8),(3,5,24),(1,2,6)); lvl=2; h,r-ind=1,1
  [3,3]((6,10,47),(3,5,24),(1,2,8)); lvl=3; h,r-ind=1,1
  [5,3]((2,3,15),(2,3,14),(1,2,7),(6,10,47),(1,2,8)); lvl=3; h,r-ind=1,1
    [4,3]((6,10,45),(4,7,30),(1,2,8),(3,5,23)); lvl=4; h,r-ind=1,1
      [3,3]((7,12,53),(1,2,8),(4,7,30)); lvl=5; h,r-ind=1,1
      [3,3]((6,10,45),(7,12,53),(4,7,30)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,23),(7,12,53),(1,2,8)); lvl=5; h,r-ind=1,1
      [3,3]((6,10,45),(3,5,23),(7,12,53)); lvl=5; h,r-ind=1,1
    [3,3]((6,10,47),(1,2,8),(3,5,23)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,15),(6,10,47),(3,5,23)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,15),(6,10,45),(5,8,37),(3,5,23)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,45),(5,8,37),(8,13,60)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,15),(5,8,37),(8,13,60)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,23),(2,3,15),(8,13,60)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,23),(6,10,45),(8,13,60)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,7),(4,7,30),(1,2,8)); lvl=4; h,r-ind=1,1
    [5,3]((2,3,14),(6,10,45),(5,8,37),(1,2,7),(4,7,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,22),(6,10,45),(5,8,37)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,14),(3,5,22),(5,8,37)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,22),(4,7,30),(6,10,45)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,22),(4,7,30),(1,2,7)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,14),(3,5,22),(1,2,7)); lvl=5; h,r-ind=1,1
    [3,3]((2,3,15),(2,3,14),(5,8,37)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,12),(2,3,14),(1,2,7),(1,2,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,13),(2,3,14),(1,2,7),(4,7,26)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,7),(2,3,14),(3,5,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,13),(2,3,14),(3,5,20)); lvl=5; h,r-ind=1,1
      [3,3]((4,7,26),(1,2,7),(3,5,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,13),(4,7,26),(3,5,20)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,6),(1,2,7),(4,7,26)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,6),(2,3,12),(2,3,13),(4,7,26)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,19),(2,3,13),(2,3,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,6),(3,5,19),(2,3,12)); lvl=5; h,r-ind=1,1
      [3,3]((4,7,26),(3,5,19),(2,3,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,6),(4,7,26),(3,5,19)); lvl=5; h,r-ind=1,1
  [4,3]((4,6,31),(2,3,15),(6,10,47),(3,5,24)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((5,8,39),(2,3,15),(6,10,47)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,24),(5,8,39),(6,10,47)); lvl=4; h,r-ind=1,1
    [3,3]((4,6,31),(5,8,39),(2,3,15)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,24),(4,6,31),(5,8,39)); lvl=4; h,r-ind=1,1
[3,3]((4,6,23),(2,3,12),(1,2,6)); lvl=2; h,r-ind=1,1
[4,3]((2,3,20),(3,5,30),(4,6,31),(3,5,24)); lvl=2; h,r-ind=3,1; alert-h-inc
  [4,3]((2,3,16),(4,6,35),(3,5,24),(3,5,27)); lvl=3; h,r-ind=3,1
    [3,3]((2,3,17),(3,5,27),(6,10,51)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((2,3,16),(2,3,17),(3,5,24),(6,10,51)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,17),(3,5,25),(6,10,51)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,17),(3,5,25),(7,11,58)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,17),(2,3,16),(7,11,58)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,16),(3,5,24),(3,5,25),(7,11,58)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,24),(5,8,41),(3,5,25)); lvl=6; h,r-ind=1,1
        [3,3]((7,11,58),(5,8,41),(3,5,25)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,16),(7,11,58),(5,8,41)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,16),(3,5,24),(5,8,41)); lvl=6; h,r-ind=1,1
    [3,3]((4,6,35),(2,3,17),(3,5,27)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,20),(4,6,35),(3,5,30),(3,5,27)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,18),(4,6,37),(3,5,27),(6,10,57)); lvl=4; h,r-ind=1,1
      [3,3]((5,8,47),(6,10,57),(3,5,28)); lvl=5; h,r-ind=1,1
      [4,3]((5,8,47),(7,11,65),(12,19,111),(3,5,28)); lvl=5; h,r-ind=1,1
        [3,3]((7,11,65),(12,19,111),(10,16,93)); lvl=6; h,r-ind=1,1
        [3,3]((3,5,28),(12,19,111),(10,16,93)); lvl=6; h,r-ind=1,1
        [3,3]((5,8,47),(7,11,65),(10,16,93)); lvl=6; h,r-ind=1,1
        [3,3]((3,5,28),(5,8,47),(10,16,93)); lvl=6; h,r-ind=1,1
      [4,3]((2,3,18),(3,5,27),(12,19,111),(3,5,28)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((5,8,46),(3,5,27),(3,5,28)); lvl=6; h,r-ind=1,1
        [3,3]((12,19,111),(5,8,46),(3,5,28)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,18),(12,19,111),(5,8,46)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,18),(5,8,46),(3,5,27)); lvl=6; h,r-ind=1,1
      [3,3]((4,6,37),(5,8,47),(7,11,65)); lvl=5; h,r-ind=1,1
      [4,3]((4,6,37),(2,3,18),(7,11,65),(12,19,111)); lvl=5; h,r-ind=1,1
        [3,3]((9,14,83),(12,19,111),(2,3,18)); lvl=6; h,r-ind=1,1
        [3,3]((4,6,37),(9,14,83),(2,3,18)); lvl=6; h,r-ind=1,1
        [3,3]((7,11,65),(9,14,83),(12,19,111)); lvl=6; h,r-ind=1,1
        [3,3]((7,11,65),(4,6,37),(9,14,83)); lvl=6; h,r-ind=1,1
    [4,3]((2,3,20),(4,6,37),(3,5,30),(6,10,57)); lvl=4; h,r-ind=3,1; alert-h-inc
      [3,3]((5,8,47),(3,5,29),(6,10,57)); lvl=5; h,r-ind=1,1
      [3,3]((5,8,47),(2,3,19),(3,5,29)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,20),(2,3,19),(3,5,30),(3,5,29)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,29),(3,5,30),(5,8,49)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,20),(3,5,30),(5,8,49)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,19),(2,3,20),(5,8,49)); lvl=6; h,r-ind=1,1
```

```
            [3,3]((2,3,19),(3,5,29),(5,8,49)); lvl=6; h,r-ind=1,1
          [3,3]((4,6,37),(5,8,47),(2,3,19)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,35),(2,3,18),(3,5,27)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,31),(2,3,16),(3,5,24)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,30),(1,2,10),(1,2,8),(3,5,24)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((3,5,27),(3,5,24),(1,2,9),(1,2,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,9),(6,11,51),(1,2,8)); lvl=4; h,r-ind=1,1
        [4,3]((6,10,51),(3,5,24),(6,11,51),(1,2,8)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((3,5,25),(9,16,75),(1,2,8),(3,5,24)); lvl=5; h,r-ind=1,3
            [3,3]((1,2,8),(9,16,75),(4,7,33)); lvl=6; h,r-ind=1,1
            [3,3]((3,5,25),(9,16,75),(4,7,33)); lvl=6; h,r-ind=1,1
            [3,3]((3,5,24),(1,2,8),(4,7,33)); lvl=6; h,r-ind=1,1
            [3,3]((3,5,25),(3,5,24),(4,7,33)); lvl=6; h,r-ind=1,1
          [4,3]((4,7,34),(9,16,75),(6,11,51),(1,2,8)); lvl=5; h,r-ind=1,3
            [3,3]((1,2,8),(5,9,42),(9,16,75)); lvl=6; h,r-ind=1,1
            [3,3]((4,7,34),(5,9,42),(9,16,75)); lvl=6; h,r-ind=1,1
            [3,3]((6,11,51),(1,2,8),(5,9,42)); lvl=6; h,r-ind=1,1
            [3,3]((4,7,34),(6,11,51),(5,9,42)); lvl=6; h,r-ind=1,1
          [3,3]((4,7,34),(3,5,25),(9,16,75)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [3,3]((4,7,34),(6,10,51),(3,5,25)); lvl=5; h,r-ind=1,1
        [4,3]((3,5,27),(6,10,51),(1,2,9),(6,11,51)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((1,2,9),(4,7,34),(9,16,78),(6,11,51)); lvl=5; h,r-ind=1,3
            [3,3]((5,9,43),(9,16,78),(4,7,34)); lvl=6; h,r-ind=1,1
            [3,3]((6,11,51),(5,9,43),(4,7,34)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,9),(6,11,51),(5,9,43)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,9),(5,9,43),(9,16,78)); lvl=6; h,r-ind=1,1
          [3,3]((3,5,26),(4,7,34),(9,16,78)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,2,9),(3,5,27),(3,5,26),(9,16,78)); lvl=5; h,r-ind=1,3
            [3,3]((4,7,35),(3,5,27),(3,5,26)); lvl=6; h,r-ind=1,1
            [3,3]((9,16,78),(4,7,35),(3,5,26)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,9),(9,16,78),(4,7,35)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,9),(4,7,35),(3,5,27)); lvl=6; h,r-ind=1,1
          [3,3]((3,5,26),(6,10,51),(4,7,34)); lvl=5; h,r-ind=1,1
      [4,3]((3,5,30),(3,5,27),(1,2,9),(1,2,10)); lvl=3; h,r-ind=1,1
        [4,3]((6,10,57),(6,11,57),(3,5,27),(1,2,9)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((4,7,38),(9,16,84),(1,2,9),(6,11,57)); lvl=5; h,r-ind=1,3
            [3,3]((1,2,9),(5,9,47),(9,16,84)); lvl=6; h,r-ind=1,1
            [3,3]((4,7,38),(5,9,47),(9,16,84)); lvl=6; h,r-ind=1,1
            [3,3]((6,11,57),(1,2,9),(5,9,47)); lvl=6; h,r-ind=1,1
            [3,3]((4,7,38),(6,11,57),(5,9,47)); lvl=6; h,r-ind=1,1
          [4,3]((3,5,28),(9,16,84),(3,5,27),(1,2,9)); lvl=5; h,r-ind=1,3
            [3,3]((1,2,9),(9,16,84),(4,7,37)); lvl=6; h,r-ind=1,1
            [3,3]((3,5,28),(9,16,84),(4,7,37)); lvl=6; h,r-ind=1,1
            [3,3]((3,5,27),(1,2,9),(4,7,37)); lvl=6; h,r-ind=1,1
            [3,3]((3,5,28),(3,5,27),(4,7,37)); lvl=6; h,r-ind=1,1
          [3,3]((4,7,38),(3,5,28),(9,16,84)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [3,3]((4,7,38),(6,10,57),(3,5,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,10),(6,11,57),(1,2,9)); lvl=4; h,r-ind=1,1
        [4,3]((3,5,30),(6,10,57),(1,2,10),(6,11,57)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((1,2,10),(4,7,38),(9,16,87),(6,11,57)); lvl=5; h,r-ind=1,3
            [3,3]((9,16,87),(5,9,48),(4,7,38)); lvl=6; h,r-ind=1,1
            [3,3]((6,11,57),(5,9,48),(4,7,38)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,10),(6,11,57),(5,9,48)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,10),(9,16,87),(5,9,48)); lvl=6; h,r-ind=1,1
          [3,3]((3,5,29),(4,7,38),(9,16,87)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,2,10),(3,5,30),(3,5,29),(9,16,87)); lvl=5; h,r-ind=1,3
            [3,3]((4,7,39),(3,5,30),(3,5,29)); lvl=6; h,r-ind=1,1
            [3,3]((9,16,87),(4,7,39),(3,5,29)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,10),(9,16,87),(4,7,39)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,10),(4,7,39),(3,5,30)); lvl=6; h,r-ind=1,1
          [3,3]((3,5,29),(6,10,57),(4,7,38)); lvl=5; h,r-ind=1,1
    [3,3]((3,5,31),(3,5,30),(1,2,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,20),(3,5,31),(3,5,30)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,10),(1,2,6)); lvl=1; h,r-ind=4,4; optimized-h
```

23.26 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,4,23)); lvl=0; h,r-ind=23,529
  [4,3]((2,3,16),(2,2,11),(3,5,28),(1,2,11)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,11),(3,5,28),(3,4,22)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,11),(3,5,28),(3,4,22)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,16),(1,2,11),(3,4,22)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,16),(2,2,11),(3,4,22)); lvl=2; h,r-ind=1,1
  [3,3]((2,4,23),(3,5,28),(1,2,11)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,23),(1,2,11)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,16),(1,2,10),(1,2,11)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,10),(1,2,11)); lvl=1; h,r-ind=1,1
```

```
  [5,3]((1,0,0),(2,3,16),(2,2,11),(1,2,6),(1,2,10)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,3),(2,2,9),(1,2,6),(1,2,8)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,4),(1,2,7),(1,2,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(2,2,9),(1,2,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,4),(1,1,3),(1,2,6),(1,2,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,3),(1,2,6),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(1,2,6),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(1,1,3),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(1,1,4),(2,3,10)); lvl=4; h,r-ind=1,1
    [4,3]((2,2,9),(1,1,5),(1,2,10),(1,2,8)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,18),(1,1,5),(1,2,9),(1,2,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,9),(1,2,10),(2,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(1,2,10),(2,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,18),(1,2,9),(2,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(3,4,18),(2,3,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(3,4,18),(1,2,9)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,2,9),(1,2,8),(3,4,18)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,2,9),(3,4,18),(1,1,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,5),(2,3,16),(1,2,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,5),(2,3,16),(2,2,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,5),(2,2,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,9),(1,1,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(2,2,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,6)); lvl=1; h,r-ind=6,18; optimized-h
  [3,3]((0,1,0),(1,2,6),(1,2,10)); lvl=1; h,r-ind=4,4; optimized-h
  [4,3]((2,4,23),(1,0,0),(2,2,11),(3,5,28)); lvl=1; h,r-ind=1,2
    [3,3]((2,3,17),(1,0,0),(2,2,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,28),(2,3,17),(2,2,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,23),(3,5,28),(2,3,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,23),(2,3,17),(1,0,0)); lvl=2; h,r-ind=1,1
```

23.27 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,5,23)); lvl=0; h,r-ind=23,529
  [5,3]((0,1,0),(1,0,0),(1,2,5),(1,3,6),(4,10,23)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,11),(1,2,5),(4,10,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,11),(1,3,6),(4,10,23)); lvl=2; h,r-ind=1,1
    [4,3]((3,8,16),(2,5,11),(4,10,21),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,13,27),(4,10,21),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(5,13,27),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,16),(1,3,6),(5,13,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,16),(5,13,27),(4,10,21)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,5),(3,8,16),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,6,11),(1,3,5),(3,8,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,6,11),(3,8,16)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,6),(2,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,6,11),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,11),(4,10,21),(3,7,15),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,15),(4,10,21),(5,12,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(4,10,21),(5,12,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,11),(5,12,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(3,7,15),(5,12,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,7,15),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(1,2,5)); lvl=2; h,r-ind=1,1
    [7,3]((1,3,5),(1,3,4),(3,8,16),(4,10,21),(2,5,7),(1,2,4),(3,7,15)); lvl=2; h,r-ind=1,1
      [4,3]((4,11,18),(2,5,9),(2,5,8),(1,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,9),(2,5,8),(3,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,8),(3,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,18),(2,5,9),(3,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(4,11,18),(3,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(4,11,18),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,5),(4,11,18),(2,5,9),(2,5,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,11,18),(3,8,14),(2,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(3,8,14),(2,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,11,18),(3,8,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(1,3,5),(3,8,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,9),(1,2,4),(2,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,10),(3,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,21),(2,5,10),(3,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(3,8,16),(2,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,16),(4,10,21),(2,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(2,5,8),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(2,5,8),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(2,5,8),(1,2,4)); lvl=3; h,r-ind=1,1
    [5,3]((2,2,3),(1,1,2),(2,5,6),(2,5,7),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(1,2,3),(1,2,4)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,1,2),(1,2,3),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,2),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(2,5,7),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,9),(2,5,6),(1,2,3)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,2,3),(4,7,9),(1,2,3)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((0,1,0),(1,0,0),(2,2,3),(2,5,6)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((2,3,3),(1,1,1),(4,7,9),(2,2,3)); lvl=3; h,r-ind=1,1
        [4,3]((7,10,12),(2,3,4),(2,2,3),(1,1,1)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,2,3),(2,3,4),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,12),(2,3,4),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(7,10,12),(3,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,3),(4,6,7),(7,10,12),(1,1,1)); lvl=4; h,r-ind=1,1
          [3,3]((5,7,8),(4,6,7),(7,10,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(5,7,8),(7,10,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,3),(5,7,8),(4,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(2,3,3),(5,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,6),(2,3,3),(4,6,7)); lvl=4; h,r-ind=1,1
        [4,3]((3,5,6),(4,6,7),(7,10,12),(2,3,4)); lvl=4; h,r-ind=1,1
          [3,3]((4,6,7),(7,10,12),(6,9,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,4),(7,10,12),(6,9,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,6),(4,6,7),(6,9,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,4),(3,5,6),(6,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,6),(2,3,4),(4,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,6),(1,3,3),(2,3,3),(4,7,9)); lvl=3; h,r-ind=3,1
        [3,3]((2,3,3),(1,2,2),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,9),(2,4,5),(3,5,6)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,6),(2,4,5),(1,3,3),(1,2,2)); lvl=4; h,r-ind=1,1
          [3,3]((1,2,2),(2,4,5),(3,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,6),(2,4,5),(3,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(2,5,6),(3,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(1,2,2),(3,7,8)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(2,3,3)); lvl=3; h,r-ind=3,3; optimized-h
      [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,4),(2,5,6),(2,5,7)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,3),(2,5,6),(2,5,7),(4,11,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,6),(3,8,10),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,14),(3,8,10),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,5,6),(3,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,14),(1,3,3),(3,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(4,11,14)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,3,4),(1,3,3),(4,11,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,7),(1,3,4),(4,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(4,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,6,7),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(0,1,0),(2,6,7)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
  [5,3]((1,3,9),(3,8,28),(2,5,18),(1,3,6),(4,10,23)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,12),(4,10,23)); lvl=2; h,r-ind=1,1
    [5,3]((1,3,6),(2,6,15),(6,16,45),(4,10,29),(2,5,12)); lvl=2; h,r-ind=1,1
      [4,3]((3,8,22),(2,6,15),(4,11,30),(1,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((5,14,37),(4,11,30),(2,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(5,14,37),(2,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,22),(1,3,7),(5,14,37)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,22),(5,14,37),(4,11,30)); lvl=4; h,r-ind=1,1
      [4,3]((4,10,27),(2,5,14),(3,8,22),(1,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,14),(3,8,22),(3,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(3,8,22),(3,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,27),(2,5,14),(3,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(4,10,27),(3,8,21)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,6),(4,10,27),(2,5,12),(1,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,7),(4,10,27),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(4,11,26),(2,5,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,6),(2,5,12),(4,11,26),(2,5,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,13),(3,8,19),(2,5,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,6),(3,8,19),(2,5,12)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,26),(1,3,6),(3,8,19)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,26),(2,5,13),(3,8,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(1,3,6),(4,11,26)); lvl=4; h,r-ind=1,1
      [4,3]((6,16,45),(3,8,22),(5,13,37),(4,11,30)); lvl=3; h,r-ind=1,1
        [3,3]((9,24,67),(3,8,22),(5,13,37)); lvl=4; h,r-ind=1,1
        [3,3]((6,16,45),(9,24,67),(5,13,37)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,30),(9,24,67),(3,8,22)); lvl=4; h,r-ind=1,1
        [3,3]((6,16,45),(4,11,30),(9,24,67)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,14),(3,8,22),(5,13,37),(4,10,29)); lvl=3; h,r-ind=1,1
        [3,3]((7,18,51),(5,13,37),(3,8,22)); lvl=4; h,r-ind=1,1
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```
      [3,3]((2,5,14),(7,18,51),(3,8,22)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,29),(7,18,51),(5,13,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,14),(4,10,29),(7,18,51)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,9),(3,8,27),(2,6,15),(6,16,45)); lvl=2; h,r-ind=3,1; alert-h-inc
    [3,3]((1,3,8),(6,16,49),(3,8,23)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((4,11,30),(1,3,8),(3,8,23)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,30),(6,16,45),(3,8,23)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,30),(2,6,15),(1,3,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,9),(1,3,8),(3,8,27),(6,16,49)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(3,8,25),(6,16,49)); lvl=4; h,r-ind=1,1
      [4,3]((6,17,51),(1,3,8),(6,16,51),(3,8,25)); lvl=4; h,r-ind=1,1
        [4,3]((6,16,51),(4,11,34),(3,8,25),(8,22,67)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((8,22,67),(4,11,34),(7,19,59)); lvl=6; h,r-ind=1,1
          [3,3]((6,16,51),(4,11,34),(7,19,59)); lvl=6; h,r-ind=1,1
          [3,3]((3,8,25),(6,16,51),(7,19,59)); lvl=6; h,r-ind=1,1
          [3,3]((3,8,25),(8,22,67),(7,19,59)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,8),(3,8,25),(8,22,67)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(4,11,34),(8,22,67)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(6,17,51),(4,11,34)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,9),(6,17,51),(1,3,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,9),(6,17,51),(3,8,27),(6,16,51)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((4,11,34),(3,8,26),(6,16,51)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,34),(9,25,78),(3,8,26)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,3,9),(3,8,27),(9,25,78),(3,8,26)); lvl=5; h,r-ind=1,3
          [3,3]((3,8,27),(4,11,35),(3,8,26)); lvl=6; h,r-ind=1,1
          [3,3]((9,25,78),(4,11,35),(3,8,26)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,9),(9,25,78),(4,11,35)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,9),(3,8,27),(4,11,35)); lvl=6; h,r-ind=1,1
        [4,3]((1,3,9),(6,17,51),(4,11,34),(9,25,78)); lvl=5; h,r-ind=1,3
          [3,3]((6,17,51),(5,14,43),(4,11,34)); lvl=6; h,r-ind=1,1
          [3,3]((9,25,78),(5,14,43),(4,11,34)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,9),(9,25,78),(5,14,43)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,9),(6,17,51),(5,14,43)); lvl=6; h,r-ind=1,1
  [4,3]((3,8,27),(6,16,45),(2,5,18),(4,10,29)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,15),(4,10,29),(5,13,37)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,23),(2,5,15),(5,13,37)); lvl=3; h,r-ind=1,1
    [3,3]((6,16,45),(3,8,23),(5,13,37)); lvl=3; h,r-ind=1,1
    [4,3]((3,8,23),(6,16,49),(2,5,15),(2,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,15),(2,5,16),(7,18,55)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,24),(2,5,16),(7,18,55)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,24),(6,16,49),(2,5,16)); lvl=4; h,r-ind=1,1
      [4,3]((3,8,23),(3,8,24),(2,5,15),(7,18,55)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,13,39),(3,8,24),(7,18,55)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,15),(5,13,39),(7,18,55)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,23),(5,13,39),(3,8,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,15),(3,8,23),(5,13,39)); lvl=5; h,r-ind=1,1
    [4,3]((3,8,27),(6,16,49),(2,5,18),(2,5,16)); lvl=3; h,r-ind=1,1
      [4,3]((3,8,25),(6,16,51),(2,5,16),(2,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,16),(2,5,17),(5,13,42)); lvl=5; h,r-ind=1,1
        [3,3]((6,16,51),(2,5,17),(5,13,42)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,25),(2,5,16),(5,13,42)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,25),(6,16,51),(5,13,42)); lvl=5; h,r-ind=1,1
      [4,3]((3,8,27),(6,16,51),(2,5,18),(2,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((7,18,61),(2,5,17),(2,5,18)); lvl=5; h,r-ind=1,1
        [4,3]((3,8,27),(3,8,26),(7,18,61),(2,5,18)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,8,26),(7,18,61),(5,13,44)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,18),(7,18,61),(5,13,44)); lvl=6; h,r-ind=1,1
          [3,3]((3,8,27),(3,8,26),(5,13,44)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,18),(3,8,27),(5,13,44)); lvl=6; h,r-ind=1,1
        [3,3]((3,8,26),(7,18,61),(2,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,26),(6,16,51),(2,5,17)); lvl=5; h,r-ind=1,1
      [3,3]((6,16,49),(3,8,25),(2,5,16)); lvl=4; h,r-ind=1,1
  [3,3]((3,8,27),(3,8,28),(2,5,18)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,9),(3,8,27),(3,8,28)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,3,9),(1,3,6)); lvl=1; h,r-ind=3,3; optimized-h
[6,3]((3,7,31),(2,5,22),(3,7,27),(3,8,28),(2,5,18),(3,8,33)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,20),(6,16,61),(3,8,28),(2,5,19)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,20),(6,16,59),(3,8,30),(9,23,88)); lvl=3; h,r-ind=1,1
      [4,3]((5,13,49),(3,8,30),(10,26,99),(6,16,59)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((8,21,79),(10,26,99),(3,8,30)); lvl=5; h,r-ind=1,1
        [3,3]((6,16,59),(8,21,79),(3,8,30)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,49),(6,16,59),(8,21,79)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,49),(8,21,79),(10,26,99)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,20),(5,13,49),(10,26,99)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,20),(5,13,49),(9,23,88)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,20),(3,8,30),(10,26,99)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,20),(6,16,61),(3,8,30)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,19),(3,8,28),(6,16,59),(9,23,88)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((5,13,49),(3,8,29),(6,16,59)); lvl=4; h,r-ind=1,1
      [3,3]((5,13,49),(12,31,116),(3,8,29)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
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        [4,3]((2,5,19),(3,8,28),(12,31,116),(3,8,29)); lvl=4; h,r-ind=1,3
          [3,3]((5,13,48),(3,8,29),(3,8,28)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,19),(5,13,48),(3,8,28)); lvl=5; h,r-ind=1,1
          [3,3]((12,31,116),(5,13,48),(3,8,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,19),(12,31,116),(5,13,48)); lvl=5; h,r-ind=1,1
        [4,3]((2,5,19),(9,23,88),(5,13,49),(12,31,116)); lvl=4; h,r-ind=1,3
          [3,3]((7,18,68),(9,23,88),(5,13,49)); lvl=5; h,r-ind=1,1
          [3,3]((12,31,116),(7,18,68),(5,13,49)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,19),(12,31,116),(7,18,68)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,19),(7,18,68),(9,23,88)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,20),(2,5,19),(9,23,88)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,18),(3,8,28),(2,5,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,27),(2,5,18),(2,5,19)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,27),(3,7,29),(2,5,20),(2,5,19)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,28),(7,17,67),(2,5,20),(3,7,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,17,67),(2,5,20),(5,12,48)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,29),(2,5,20),(5,12,48)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,28),(7,17,67),(5,12,48)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,29),(3,7,28),(5,12,48)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,19),(7,17,67),(2,5,20)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,28),(3,7,27),(2,5,19),(7,17,67)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,27),(2,5,19),(5,12,47)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,67),(2,5,19),(5,12,47)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,28),(3,7,27),(5,12,47)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,67),(3,7,28),(5,12,47)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,20),(2,5,21),(3,8,33),(6,16,61)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,21),(6,16,63),(9,23,93),(3,8,33)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,8,32),(5,13,52),(6,16,63)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,32),(12,31,126),(5,13,52)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((2,5,21),(12,31,126),(9,23,93),(5,13,52)); lvl=4; h,r-ind=1,3
          [3,3]((5,13,52),(7,18,73),(12,31,126)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,21),(7,18,73),(12,31,126)); lvl=5; h,r-ind=1,1
          [3,3]((9,23,93),(5,13,52),(7,18,73)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,21),(9,23,93),(7,18,73)); lvl=5; h,r-ind=1,1
        [4,3]((2,5,21),(3,8,32),(3,8,33),(12,31,126)); lvl=4; h,r-ind=1,3
          [3,3]((5,13,53),(3,8,32),(3,8,33)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,21),(5,13,53),(3,8,33)); lvl=5; h,r-ind=1,1
          [3,3]((12,31,126),(5,13,53),(3,8,32)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,21),(12,31,126),(5,13,53)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,20),(2,5,21),(9,23,93)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,20),(6,16,63),(3,8,31),(9,23,93)); lvl=3; h,r-ind=1,1
        [4,3]((10,26,103),(5,13,52),(3,8,31),(6,16,63)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((8,21,83),(6,16,63),(3,8,31)); lvl=5; h,r-ind=1,1
          [3,3]((10,26,103),(8,21,83),(3,8,31)); lvl=5; h,r-ind=1,1
          [3,3]((5,13,52),(10,26,103),(8,21,83)); lvl=5; h,r-ind=1,1
          [3,3]((5,13,52),(8,21,83),(6,16,63)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,20),(10,26,103),(3,8,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,20),(10,26,103),(5,13,52)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,20),(9,23,93),(5,13,52)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,20),(6,16,61),(3,8,31)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,22),(2,5,21),(3,8,33)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,31),(3,7,29),(2,5,20),(2,5,21)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,30),(3,7,29),(2,5,20),(7,17,71)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,50),(3,7,29),(2,5,20)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,71),(5,12,50),(2,5,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,30),(7,17,71),(5,12,50)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,30),(5,12,50),(3,7,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,21),(2,5,20),(7,17,71)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,21),(3,7,31),(3,7,30),(7,17,71)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,30),(5,12,51),(3,7,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,21),(5,12,51),(3,7,31)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,71),(3,7,30),(5,12,51)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,21),(7,17,71),(5,12,51)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,22),(3,7,31),(2,5,21)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,23),(2,5,22),(3,8,33)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,23),(3,8,33)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,5,23),(3,7,31),(2,5,22)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,3,9),(3,8,28),(3,8,33)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,10),(6,16,61),(3,8,28)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,9),(1,3,10),(3,8,28)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,9),(1,3,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,11),(3,8,33),(1,3,10),(6,16,61)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,10),(6,17,63),(6,16,63),(3,8,31)); lvl=3; h,r-ind=1,1
        [4,3]((3,8,31),(4,11,42),(8,22,83),(6,16,63)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,11,42),(7,19,73),(8,22,83)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,31),(7,19,73),(8,22,83)); lvl=5; h,r-ind=1,1
          [3,3]((6,16,63),(3,8,31),(7,19,73)); lvl=5; h,r-ind=1,1
          [3,3]((6,16,63),(4,11,42),(7,19,73)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(4,11,42),(8,22,83)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,31),(1,3,10),(8,22,83)); lvl=4; h,r-ind=1,1
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      [3,3]((1,3,10),(4,11,42),(6,17,63)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,10),(6,16,61),(3,8,31)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,11),(3,8,33),(6,17,63),(6,16,63)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((4,11,42),(3,8,32),(6,16,63)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,42),(9,25,96),(3,8,32)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,3,11),(3,8,33),(9,25,96),(3,8,32)); lvl=4; h,r-ind=1,3
        [3,3]((4,11,43),(3,8,33),(3,8,32)); lvl=5; h,r-ind=1,1
        [3,3]((9,25,96),(4,11,43),(3,8,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,11),(9,25,96),(4,11,43)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,11),(4,11,43),(3,8,33)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,11),(6,17,63),(4,11,42),(9,25,96)); lvl=4; h,r-ind=1,3
        [3,3]((6,17,63),(5,14,53),(4,11,42)); lvl=5; h,r-ind=1,1
        [3,3]((9,25,96),(5,14,53),(4,11,42)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,11),(9,25,96),(5,14,53)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,11),(6,17,63),(5,14,53)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,10),(1,3,11),(6,17,63)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,11),(1,3,10)); lvl=2; h,r-ind=1,1
[5,3]((1,2,8),(3,7,27),(2,5,18),(1,2,5),(4,10,23)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,5),(2,5,12),(4,10,23)); lvl=2; h,r-ind=1,1
  [5,3]((2,4,13),(1,2,5),(2,5,12),(4,10,29),(6,14,43)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,6),(2,5,12),(4,10,27),(1,2,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,5),(4,9,24),(2,5,13),(2,5,12)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,18),(4,9,24),(2,5,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,12),(3,7,18),(2,5,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(2,5,12),(3,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(3,7,18),(4,9,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,6),(1,2,5),(4,9,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(4,9,24),(2,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(4,10,27),(2,5,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,6),(3,7,21),(2,5,14),(4,10,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,21),(3,7,20),(2,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,27),(3,7,20),(2,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(4,10,27),(3,7,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(3,7,21),(3,7,20)); lvl=4; h,r-ind=1,1
    [4,3]((4,9,28),(2,4,13),(1,2,6),(3,7,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(2,4,13),(5,11,34)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,28),(2,4,13),(5,11,34)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,21),(4,9,28),(5,11,34)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,21),(1,2,6),(5,11,34)); lvl=4; h,r-ind=1,1
    [4,3]((3,7,21),(2,5,14),(5,12,36),(4,10,29)); lvl=3; h,r-ind=1,1
      [3,3]((7,17,50),(4,10,29),(2,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,21),(7,17,50),(2,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,36),(7,17,50),(4,10,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,21),(5,12,36),(7,17,50)); lvl=4; h,r-ind=1,1
    [4,3]((4,9,28),(3,7,21),(6,14,43),(5,12,36)); lvl=3; h,r-ind=1,1
      [3,3]((9,21,64),(5,12,36),(3,7,21)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,28),(9,21,64),(3,7,21)); lvl=4; h,r-ind=1,1
      [3,3]((6,14,43),(9,21,64),(5,12,36)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,28),(6,14,43),(9,21,64)); lvl=4; h,r-ind=1,1
  [4,3]((3,7,26),(2,5,18),(4,10,29),(6,14,43)); lvl=2; h,r-ind=1,1
    [3,3]((5,12,36),(4,10,29),(2,5,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,22),(5,12,36),(2,5,15)); lvl=3; h,r-ind=1,1
    [4,3]((6,14,47),(3,7,22),(2,5,16),(2,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((7,17,54),(2,5,16),(2,5,15)); lvl=4; h,r-ind=1,1
      [4,3]((3,7,22),(3,7,23),(7,17,54),(2,5,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,38),(7,17,54),(3,7,23)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,22),(5,12,38),(3,7,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,15),(3,7,22),(5,12,38)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,15),(5,12,38),(7,17,54)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,23),(7,17,54),(2,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((6,14,47),(3,7,23),(2,5,16)); lvl=4; h,r-ind=1,1
    [4,3]((3,7,26),(6,14,47),(2,5,18),(2,5,16)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,24),(6,14,49),(2,5,16),(2,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,41),(2,5,17),(2,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,24),(5,12,41),(2,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,24),(6,14,49),(5,12,41)); lvl=5; h,r-ind=1,1
        [3,3]((6,14,49),(5,12,41),(2,5,17)); lvl=5; h,r-ind=1,1
      [4,3]((3,7,26),(6,14,49),(2,5,18),(2,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,18),(7,17,60),(2,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,25),(7,17,60),(2,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,25),(6,14,49),(2,5,17)); lvl=5; h,r-ind=1,1
        [4,3]((3,7,25),(3,7,26),(2,5,18),(7,17,60)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,12,43),(2,5,18),(3,7,26)); lvl=6; h,r-ind=1,1
          [3,3]((3,7,25),(5,12,43),(3,7,26)); lvl=6; h,r-ind=1,1
          [3,3]((7,17,60),(5,12,43),(2,5,18)); lvl=6; h,r-ind=1,1
          [3,3]((3,7,25),(7,17,60),(5,12,43)); lvl=6; h,r-ind=1,1
      [3,3]((6,14,47),(3,7,24),(2,5,16)); lvl=4; h,r-ind=1,1
    [3,3]((6,14,43),(3,7,22),(5,12,36)); lvl=3; h,r-ind=1,1
  [3,3]((3,7,26),(3,7,27),(2,5,18)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,8),(3,7,26),(3,7,27)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((1,2,8),(3,7,26),(2,4,13),(6,14,43)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((1,2,7),(6,14,47),(3,7,22)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((1,2,7),(4,9,28),(3,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,28),(6,14,43),(3,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(2,4,13),(4,9,28)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,7),(1,2,8),(3,7,26),(6,14,47)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,8),(6,13,47),(3,7,26),(6,14,49)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [3,3]((4,9,32),(6,14,49),(3,7,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,32),(9,20,73),(3,7,25)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,2,8),(9,20,73),(3,7,26),(3,7,25)); lvl=5; h,r-ind=1,3
            [3,3]((3,7,26),(4,9,33),(3,7,25)); lvl=6; h,r-ind=1,1
            [3,3]((9,20,73),(4,9,33),(3,7,25)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,8),(9,20,73),(4,9,33)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,8),(3,7,26),(4,9,33)); lvl=6; h,r-ind=1,1
          [4,3]((1,2,8),(6,13,47),(4,9,32),(9,20,73)); lvl=5; h,r-ind=1,3
            [3,3]((6,13,47),(5,11,40),(4,9,32)); lvl=6; h,r-ind=1,1
            [3,3]((9,20,73),(5,11,40),(4,9,32)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,8),(6,13,47),(5,11,40)); lvl=6; h,r-ind=1,1
            [3,3]((9,20,73),(1,2,8),(5,11,40)); lvl=6; h,r-ind=1,1
        [4,3]((1,2,7),(3,7,24),(6,13,47),(6,14,49)); lvl=4; h,r-ind=1,1
          [4,3]((8,18,63),(4,9,32),(3,7,24),(6,14,49)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((7,16,56),(6,14,49),(3,7,24)); lvl=6; h,r-ind=1,1
            [3,3]((8,18,63),(7,16,56),(3,7,24)); lvl=6; h,r-ind=1,1
            [3,3]((7,16,56),(4,9,32),(6,14,49)); lvl=6; h,r-ind=1,1
            [3,3]((8,18,63),(7,16,56),(4,9,32)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,7),(8,18,63),(4,9,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,7),(4,9,32),(6,13,47)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,7),(8,18,63),(3,7,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,7),(3,7,24),(6,14,47)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(1,2,8),(6,13,47)); lvl=4; h,r-ind=1,1
[4,3]((1,0,0),(1,2,8),(2,3,13),(1,2,5)); lvl=1; h,r-ind=1,2
  [4,3]((1,1,4),(2,2,7),(2,4,13),(1,2,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,7),(5,7,25),(2,3,10),(3,4,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,21),(5,7,25),(3,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(4,6,21),(3,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(2,3,10),(4,6,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(4,6,21),(5,7,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,2,7),(2,3,10),(3,4,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,4),(5,7,25),(2,2,7),(3,4,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,18),(5,7,25),(3,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,7),(4,5,18),(3,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(2,2,7),(4,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(4,5,18),(5,7,25)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,4),(1,2,8),(1,2,7),(5,7,25)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,3,11),(1,2,7),(1,2,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(2,3,11),(1,2,8)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,25),(2,3,11),(1,2,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(5,7,25),(2,3,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,7),(2,4,13),(2,3,10)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,13),(1,1,4),(1,2,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,13),(1,1,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,4),(2,2,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,5),(1,1,3),(2,2,7),(2,4,13)); lvl=2; h,r-ind=1,1
    [4,3]((5,7,22),(3,4,13),(2,2,7),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(2,2,7),(4,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(2,2,7),(4,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,22),(3,4,13),(4,5,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(5,7,22),(4,5,16)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,5),(1,2,6),(5,7,22),(1,1,3)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((1,2,6),(5,7,22),(2,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(5,7,22),(2,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,6),(2,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(1,2,5),(2,3,9)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,10),(3,4,13),(2,2,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,6),(5,7,22),(2,3,10),(3,4,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,22),(4,6,19),(3,4,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(4,6,19),(3,4,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,3,10),(4,6,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(5,7,22),(4,6,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,6),(2,4,13),(2,3,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,5),(1,1,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(2,2,7)); lvl=2; h,r-ind=1,1
[3,3]((1,2,8),(1,2,9),(2,3,13)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(1,2,9),(2,3,13)); lvl=1; h,r-ind=1,1
[3,3]((2,5,23),(1,0,0),(1,2,9)); lvl=1; h,r-ind=1,1
[4,3]((3,7,31),(1,2,8),(1,2,9),(3,7,27)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,8),(1,2,9),(7,15,63)); lvl=2; h,r-ind=1,1
  [4,3]((3,7,31),(3,7,29),(1,2,9),(7,15,63)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
    [4,3]((1,2,9),(5,11,47),(7,15,63),(5,11,46)); lvl=3; h,r-ind=1,2
      [3,3]((5,11,47),(6,13,55),(5,11,46)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((7,15,63),(6,13,55),(5,11,46)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,9),(7,15,63),(6,13,55)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,9),(5,11,47),(6,13,55)); lvl=4; h,r-ind=1,1
    [3,3]((5,11,47),(3,7,29),(5,11,46)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((3,7,30),(5,11,47),(3,7,29)); lvl=3; h,r-ind=2,2; optimized-h
    [4,3]((3,7,31),(3,7,30),(1,2,9),(5,11,47)); lvl=3; h,r-ind=1,2
      [3,3]((4,9,39),(5,11,47),(3,7,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,31),(4,9,39),(3,7,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,9),(3,7,31),(4,9,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,9),(4,9,39),(5,11,47)); lvl=4; h,r-ind=1,1
  [4,3]((3,7,27),(3,7,29),(1,2,8),(7,15,63)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
    [4,3]((1,2,8),(5,11,45),(7,15,63),(5,11,46)); lvl=3; h,r-ind=1,2
      [3,3]((5,11,45),(6,13,54),(5,11,46)); lvl=4; h,r-ind=1,1
      [3,3]((7,15,63),(6,13,54),(5,11,46)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(7,15,63),(6,13,54)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(5,11,45),(6,13,54)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,29),(5,11,45),(5,11,46)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((3,7,28),(3,7,29),(5,11,45)); lvl=3; h,r-ind=2,2; optimized-h
    [4,3]((1,2,8),(3,7,28),(3,7,27),(5,11,45)); lvl=3; h,r-ind=1,2
      [3,3]((4,9,36),(3,7,27),(3,7,28)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,45),(4,9,36),(3,7,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(5,11,45),(4,9,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(4,9,36),(3,7,27)); lvl=4; h,r-ind=1,1
[3,3]((2,5,23),(3,7,31),(1,2,9)); lvl=1; h,r-ind=1,1
```

23.28 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,6,23)); lvl=0; h,r-ind=23,529
  [5,3]((2,3,11),(1,2,7),(2,4,15),(3,8,30),(1,3,11)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,26),(3,8,30),(1,3,11)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,26),(6,13,48),(4,9,33),(1,3,11)); lvl=2; h,r-ind=1,1
      [3,3]((7,16,59),(4,9,33),(6,13,48)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,26),(7,16,59),(6,13,48)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,11),(7,16,59),(4,9,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,26),(1,3,11),(7,16,59)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,7),(4,9,33),(1,3,11)); lvl=2; h,r-ind=1,1
    [5,3]((2,3,11),(5,10,37),(1,2,7),(6,13,48),(4,9,33)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,33),(3,6,22),(6,13,48)); lvl=3; h,r-ind=1,1
      [3,3]((5,10,37),(3,6,22),(6,13,48)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,11),(5,10,37),(3,6,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(4,9,33),(3,6,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,11),(1,2,7),(3,6,22)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,26),(2,4,15),(3,8,30)); lvl=2; h,r-ind=1,1
    [4,3]((5,10,37),(3,7,26),(6,13,48),(2,4,15)); lvl=2; h,r-ind=1,1
      [3,3]((6,13,48),(3,7,26),(8,17,63)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,15),(3,7,26),(8,17,63)); lvl=3; h,r-ind=1,1
      [3,3]((5,10,37),(2,4,15),(8,17,63)); lvl=3; h,r-ind=1,1
      [3,3]((5,10,37),(6,13,48),(8,17,63)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,11),(5,10,37),(2,4,15)); lvl=2; h,r-ind=1,1
  [3,3]((2,6,23),(3,8,30),(1,3,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,7),(1,3,9),(1,3,11)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,3,9),(1,3,11)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,6,23),(0,1,0),(1,3,11)); lvl=1; h,r-ind=1,1
  [5,3]((1,3,6),(1,0,0),(2,3,11),(1,2,7),(1,3,9)); lvl=1; h,r-ind=1,1
    [5,3]((2,3,9),(5,7,24),(2,3,10),(3,3,10),(1,1,3)); lvl=2; h,r-ind=1,1
      [4,3]((8,10,33),(5,6,20),(3,3,10),(1,1,3)); lvl=3; h,r-ind=1,1
        [3,3]((6,7,23),(5,6,20),(3,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(6,7,23),(3,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((8,10,33),(1,1,3),(6,7,23)); lvl=4; h,r-ind=1,1
        [3,3]((8,10,33),(6,7,23),(5,6,20)); lvl=4; h,r-ind=1,1
      [4,3]((10,13,43),(8,10,33),(3,4,13),(1,1,3)); lvl=3; h,r-ind=1,1
        [3,3]((8,10,33),(1,1,3),(11,14,46)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,13),(1,1,3),(11,14,46)); lvl=4; h,r-ind=1,1
        [3,3]((10,13,43),(3,4,13),(11,14,46)); lvl=4; h,r-ind=1,1
        [3,3]((10,13,43),(8,10,33),(11,14,46)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(3,4,13),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(2,3,9),(3,4,13)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,10),(9,12,40),(10,13,43),(3,4,13)); lvl=3; h,r-ind=1,1
        [3,3]((12,16,53),(10,13,43),(9,12,40)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(12,16,53),(9,12,40)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,13),(12,16,53),(10,13,43)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(3,4,13),(12,16,53)); lvl=4; h,r-ind=1,1
      [4,3]((5,7,24),(2,3,10),(9,12,40),(6,8,27)); lvl=3; h,r-ind=1,1
        [3,3]((8,11,37),(9,12,40),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,24),(8,11,37),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((8,11,37),(6,8,27),(9,12,40)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,24),(8,11,37),(6,8,27)); lvl=4; h,r-ind=1,1
```

```
    [3,3]((4,5,17),(5,6,20),(3,3,10)); lvl=3; h,r-ind=1,1
    [6,3]((9,12,40),(10,13,43),(8,10,33),(4,5,17),(6,8,27),(5,6,20)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,30),(5,6,20),(8,10,33)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,30),(10,13,43),(8,10,33)); lvl=4; h,r-ind=1,1
      [3,3]((9,12,40),(7,9,30),(10,13,43)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,30),(4,5,17),(5,6,20)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,30),(4,5,17),(6,8,27)); lvl=4; h,r-ind=1,1
      [3,3]((9,12,40),(7,9,30),(6,8,27)); lvl=4; h,r-ind=1,1
    [3,3]((5,7,24),(4,5,17),(6,8,27)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,10),(1,1,3)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,9),(3,5,14),(2,3,8),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,17),(2,3,8),(3,5,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(4,6,17),(3,5,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(4,6,17),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(1,1,3),(4,6,17)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,8),(1,0,0),(2,3,6),(1,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(5,6,15),(1,1,2),(1,0,0)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((5,6,15),(1,1,2),(2,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,2),(2,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(1,0,0),(2,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(5,6,15),(2,2,5)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,7),(3,4,10),(5,6,15),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(4,5,12),(5,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,12),(5,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(3,4,10),(4,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,7),(4,5,12)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,7),(2,3,6),(1,1,2)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,8),(1,1,3),(3,4,10),(5,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,13),(1,1,3),(5,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,13),(3,4,10),(5,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,8),(4,5,13),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,8),(4,5,13),(1,1,3)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,7),(2,3,8),(3,4,10)); lvl=3; h,r-ind=1,1
  [6,3]((1,3,6),(2,4,11),(2,6,15),(3,5,14),(2,3,8),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(1,2,4),(1,3,7),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,6),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,6),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(1,3,7),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,5),(2,5,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,5),(1,2,4),(2,3,6),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,6),(3,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,6),(3,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(3,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(1,2,5),(3,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(2,3,8),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,14),(1,2,5),(2,3,8)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,13),(1,2,5),(2,6,15),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,20),(1,3,7),(2,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(3,8,20),(2,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,13),(3,8,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(3,8,20),(1,3,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,13),(2,4,11),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,11),(3,5,14),(1,2,5)); lvl=3; h,r-ind=1,1
  [4,3]((2,4,11),(1,2,6),(2,3,9),(3,5,14)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,20),(2,3,9),(1,2,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,11),(4,7,20),(1,2,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,14),(2,4,11),(4,7,20)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,14),(4,7,20),(2,3,9)); lvl=3; h,r-ind=1,1
  [5,3]((2,3,11),(1,0,0),(4,6,21),(5,7,24),(3,3,10)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,7),(5,6,21),(3,3,10),(4,5,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,21),(4,5,17),(6,7,24)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,10),(4,5,17),(6,7,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,7),(5,6,21),(6,7,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,7),(3,3,10),(6,7,24)); lvl=4; h,r-ind=1,1
    [4,3]((5,6,21),(3,4,14),(5,7,24),(4,5,17)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,31),(3,4,14),(5,7,24)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,17),(7,9,31),(5,7,24)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,21),(4,5,17),(7,9,31)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,21),(7,9,31),(3,4,14)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,14),(5,7,24),(4,6,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,11),(3,4,14),(4,6,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,11),(5,6,21),(3,4,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,11),(2,2,7),(5,6,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,7),(3,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,11),(1,0,0),(2,2,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,7),(2,3,11),(4,6,21)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,7),(4,6,21),(5,7,24),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,21),(5,7,24),(6,9,31)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(5,7,24),(6,9,31)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,7),(2,3,10),(6,9,31)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,2,7),(4,6,21),(6,9,31)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,6),(2,3,9),(1,2,7),(2,3,10)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,9),(2,3,10),(3,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(2,3,10),(3,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(2,3,9),(3,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(1,2,6),(3,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(1,3,9),(1,2,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,11),(2,6,15),(1,2,6),(1,3,9)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,6),(5,12,33),(1,3,9),(1,3,8)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((1,3,8),(2,5,14),(1,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,5,14),(1,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,33),(1,2,6),(2,5,14)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,33),(1,3,8),(2,5,14)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,13),(3,7,19),(5,12,33),(1,3,8)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,19),(5,12,33),(4,10,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(5,12,33),(4,10,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,13),(3,7,19),(4,10,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(2,5,13),(4,10,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(2,6,15),(1,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,11),(2,5,13),(3,7,19)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,6),(2,4,11),(3,7,19),(5,12,33)); lvl=3; h,r-ind=1,1
        [3,3]((4,9,25),(2,4,11),(3,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,33),(4,9,25),(3,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(5,12,33),(4,9,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(4,9,25),(2,4,11)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,6),(1,3,9)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,3,6),(1,0,0)); lvl=1; h,r-ind=6,12; optimized-h
  [3,3]((1,0,0),(2,3,11),(2,4,15)); lvl=1; h,r-ind=1,1
  [3,3]((2,6,23),(1,0,0),(2,4,15)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,6,23),(2,4,15),(3,8,30)); lvl=1; h,r-ind=2,2; optimized-h
```

23.29 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,7,23)); lvl=0; h,r-ind=23,529
  [6,3]((7,22,71),(8,25,81),(3,5,16),(2,5,15),(2,6,19),(1,1,3)); lvl=1; h,r-ind=1,1
    [4,3]((5,14,45),(3,5,16),(2,5,16),(11,30,97)); lvl=2; h,r-ind=1,1
      [5,3]((21,55,177),(9,22,71),(7,18,58),(3,5,16),(2,5,16)); lvl=3; h,r-ind=1,1
        [3,3]((7,18,58),(21,55,177),(9,23,74)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,16),(21,55,177),(9,23,74)); lvl=4; h,r-ind=1,1
        [4,3]((15,37,119),(22,55,177),(2,5,16),(9,23,74)); lvl=4; h,r-ind=1,1
          [3,3]((22,55,177),(9,23,74),(24,60,193)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,16),(9,23,74),(24,60,193)); lvl=5; h,r-ind=1,1
          [3,3]((15,37,119),(2,5,16),(24,60,193)); lvl=5; h,r-ind=1,1
          [3,3]((15,37,119),(22,55,177),(24,60,193)); lvl=5; h,r-ind=1,1
        [4,3]((3,5,16),(4,9,29),(15,37,119),(2,5,16)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((6,14,45),(4,9,29),(15,37,119)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,16),(6,14,45),(15,37,119)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,16),(6,14,45),(4,9,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,16),(3,5,16),(6,14,45)); lvl=5; h,r-ind=1,1
        [5,3]((4,9,29),(11,27,87),(20,50,161),(15,37,119),(22,55,177)); lvl=4; h,r-ind=1,1
          [3,3]((13,32,103),(20,50,161),(22,55,177)); lvl=5; h,r-ind=1,1
          [3,3]((15,37,119),(13,32,103),(22,55,177)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,29),(15,37,119),(13,32,103)); lvl=5; h,r-ind=1,1
          [3,3]((11,27,87),(13,32,103),(20,50,161)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,29),(11,27,87),(13,32,103)); lvl=5; h,r-ind=1,1
        [3,3]((9,22,71),(4,9,29),(11,27,87)); lvl=4; h,r-ind=1,1
        [4,3]((20,50,161),(22,55,177),(7,18,58),(9,23,74)); lvl=4; h,r-ind=1,1
          [3,3]((9,23,74),(22,55,177),(29,73,235)); lvl=5; h,r-ind=1,1
          [3,3]((20,50,161),(22,55,177),(29,73,235)); lvl=5; h,r-ind=1,1
          [3,3]((7,18,58),(20,50,161),(29,73,235)); lvl=5; h,r-ind=1,1
          [3,3]((7,18,58),(9,23,74),(29,73,235)); lvl=5; h,r-ind=1,1
        [4,3]((9,22,71),(11,27,87),(20,50,161),(7,18,58)); lvl=4; h,r-ind=1,1
          [3,3]((18,45,145),(20,50,161),(11,27,87)); lvl=5; h,r-ind=1,1
          [3,3]((9,22,71),(18,45,145),(11,27,87)); lvl=5; h,r-ind=1,1
          [3,3]((18,45,145),(7,18,58),(20,50,161)); lvl=5; h,r-ind=1,1
          [3,3]((9,22,71),(18,45,145),(7,18,58)); lvl=5; h,r-ind=1,1
      [4,3]((5,14,45),(12,32,103),(21,55,177),(2,5,16)); lvl=3; h,r-ind=1,1
        [3,3]((14,37,119),(21,55,177),(12,32,103)); lvl=4; h,r-ind=1,1
        [3,3]((5,14,45),(14,37,119),(12,32,103)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,16),(14,37,119),(21,55,177)); lvl=4; h,r-ind=1,1
        [3,3]((5,14,45),(2,5,16),(14,37,119)); lvl=4; h,r-ind=1,1
      [3,3]((5,14,45),(12,32,103),(8,22,71)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((5,13,42),(9,22,71),(7,18,58)); lvl=3; h,r-ind=1,1
      [5,3]((12,32,103),(21,55,177),(8,22,71),(5,13,42),(7,18,58)); lvl=3; h,r-ind=1,1
        [5,3]((29,76,245),(17,45,145),(5,13,42),(8,22,71),(10,27,87)); lvl=4; h,r-ind=1,1
          [3,3]((15,40,129),(8,22,71),(10,27,87)); lvl=5; h,r-ind=1,1
          [4,3]((37,98,316),(32,85,274),(15,40,129),(10,27,87)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((32,85,274),(10,27,87),(47,125,403)); lvl=6; h,r-ind=1,1
          [3,3]((15,40,129),(10,27,87),(47,125,403)); lvl=6; h,r-ind=1,1
          [3,3]((37,98,316),(15,40,129),(47,125,403)); lvl=6; h,r-ind=1,1
          [3,3]((37,98,316),(32,85,274),(47,125,403)); lvl=6; h,r-ind=1,1
        [3,3]((17,45,145),(32,85,274),(10,27,87)); lvl=5; h,r-ind=1,1
        [4,3]((17,45,145),(37,98,316),(22,58,187),(32,85,274)); lvl=5; h,r-ind=1,1
          [3,3]((54,143,461),(37,98,316),(22,58,187)); lvl=6; h,r-ind=1,1
          [3,3]((17,45,145),(54,143,461),(22,58,187)); lvl=6; h,r-ind=1,1
          [3,3]((32,85,274),(17,45,145),(54,143,461)); lvl=6; h,r-ind=1,1
          [3,3]((32,85,274),(54,143,461),(37,98,316)); lvl=6; h,r-ind=1,1
        [3,3]((29,76,245),(17,45,145),(22,58,187)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,42),(15,40,129),(8,22,71)); lvl=5; h,r-ind=1,1
        [3,3]((37,98,316),(5,13,42),(15,40,129)); lvl=5; h,r-ind=1,1
        [3,3]((37,98,316),(22,58,187),(5,13,42)); lvl=5; h,r-ind=1,1
        [3,3]((29,76,245),(22,58,187),(5,13,42)); lvl=5; h,r-ind=1,1
      [4,3]((12,32,103),(17,45,145),(19,50,161),(10,27,87)); lvl=4; h,r-ind=1,1
        [3,3]((29,77,248),(17,45,145),(19,50,161)); lvl=5; h,r-ind=1,1
        [3,3]((12,32,103),(29,77,248),(19,50,161)); lvl=5; h,r-ind=1,1
        [3,3]((29,77,248),(10,27,87),(17,45,145)); lvl=5; h,r-ind=1,1
        [3,3]((12,32,103),(29,77,248),(10,27,87)); lvl=5; h,r-ind=1,1
      [3,3]((12,32,103),(21,55,177),(19,50,161)); lvl=4; h,r-ind=1,1
      [3,3]((29,76,245),(7,18,58),(5,13,42)); lvl=4; h,r-ind=1,1
      [4,3]((29,76,245),(17,45,145),(19,50,161),(7,18,58)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((17,45,145),(24,63,203),(19,50,161)); lvl=5; h,r-ind=1,1
        [3,3]((7,18,58),(24,63,203),(19,50,161)); lvl=5; h,r-ind=1,1
        [3,3]((29,76,245),(17,45,145),(24,63,203)); lvl=5; h,r-ind=1,1
        [3,3]((7,18,58),(29,76,245),(24,63,203)); lvl=5; h,r-ind=1,1
      [3,3]((21,55,177),(19,50,161),(7,18,58)); lvl=4; h,r-ind=1,1
    [3,3]((11,30,97),(8,22,71),(5,13,42)); lvl=3; h,r-ind=1,1
  [4,3]((8,25,81),(3,9,29),(5,14,45),(11,30,97)); lvl=2; h,r-ind=1,1
    [3,3]((8,22,71),(5,14,45),(14,40,129)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((3,9,29),(26,75,242),(5,14,45),(14,40,129)); lvl=3; h,r-ind=1,1
      [3,3]((17,49,158),(26,75,242),(14,40,129)); lvl=4; h,r-ind=1,1
      [3,3]((5,14,45),(17,49,158),(14,40,129)); lvl=4; h,r-ind=1,1
      [3,3]((3,9,29),(5,14,45),(17,49,158)); lvl=4; h,r-ind=1,1
      [3,3]((3,9,29),(17,49,158),(26,75,242)); lvl=4; h,r-ind=1,1
    [5,3]((8,25,81),(9,26,84),(13,38,123),(3,9,29),(26,75,242)); lvl=3; h,r-ind=1,1
      [4,3]((28,82,265),(9,26,84),(13,38,123),(16,47,152)); lvl=4; h,r-ind=1,1
        [3,3]((9,26,84),(13,38,123),(25,73,236)); lvl=5; h,r-ind=1,1
        [3,3]((16,47,152),(13,38,123),(25,73,236)); lvl=5; h,r-ind=1,1
        [3,3]((28,82,265),(16,47,152),(25,73,236)); lvl=5; h,r-ind=1,1
        [3,3]((28,82,265),(9,26,84),(25,73,236)); lvl=5; h,r-ind=1,1
      [3,3]((7,21,68),(13,38,123),(16,47,152)); lvl=4; h,r-ind=1,1
      [5,3]((7,21,68),(22,65,210),(28,82,265),(31,91,294),(16,47,152)); lvl=4; h,r-ind=1,1
        [3,3]((19,56,181),(31,91,294),(28,82,265)); lvl=5; h,r-ind=1,1
        [3,3]((19,56,181),(16,47,152),(28,82,265)); lvl=5; h,r-ind=1,1
        [3,3]((7,21,68),(19,56,181),(16,47,152)); lvl=5; h,r-ind=1,1
        [3,3]((22,65,210),(7,21,68),(19,56,181)); lvl=5; h,r-ind=1,1
        [3,3]((22,65,210),(19,56,181),(31,91,294)); lvl=5; h,r-ind=1,1
      [4,3]((22,65,210),(12,35,113),(31,91,294),(3,9,29)); lvl=4; h,r-ind=1,1
        [3,3]((31,91,294),(12,35,113),(34,100,323)); lvl=5; h,r-ind=1,1
        [3,3]((3,9,29),(12,35,113),(34,100,323)); lvl=5; h,r-ind=1,1
        [3,3]((22,65,210),(3,9,29),(34,100,323)); lvl=5; h,r-ind=1,1
        [3,3]((22,65,210),(31,91,294),(34,100,323)); lvl=5; h,r-ind=1,1
      [3,3]((12,35,113),(26,75,242),(3,9,29)); lvl=4; h,r-ind=1,1
      [4,3]((8,25,81),(7,21,68),(22,65,210),(3,9,29)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((10,30,97),(7,21,68),(22,65,210)); lvl=5; h,r-ind=1,1
        [3,3]((3,9,29),(10,30,97),(22,65,210)); lvl=5; h,r-ind=1,1
        [3,3]((8,25,81),(10,30,97),(7,21,68)); lvl=5; h,r-ind=1,1
        [3,3]((3,9,29),(8,25,81),(10,30,97)); lvl=5; h,r-ind=1,1
      [4,3]((12,35,113),(28,82,265),(31,91,294),(9,26,84)); lvl=4; h,r-ind=1,1
        [3,3]((40,117,378),(28,82,265),(31,91,294)); lvl=5; h,r-ind=1,1
        [3,3]((12,35,113),(40,117,378),(31,91,294)); lvl=5; h,r-ind=1,1
        [3,3]((9,26,84),(40,117,378),(28,82,265)); lvl=5; h,r-ind=1,1
        [3,3]((12,35,113),(9,26,84),(40,117,378)); lvl=5; h,r-ind=1,1
      [3,3]((12,35,113),(26,75,242),(9,26,84)); lvl=4; h,r-ind=1,1
    [5,3]((6,17,55),(9,26,84),(26,75,242),(8,22,71),(14,40,129)); lvl=3; h,r-ind=1,1
      [4,3]((23,66,213),(20,57,184),(14,40,129),(11,31,100)); lvl=4; h,r-ind=1,1
        [3,3]((20,57,184),(11,31,100),(34,97,313)); lvl=5; h,r-ind=1,1
        [3,3]((14,40,129),(11,31,100),(34,97,313)); lvl=5; h,r-ind=1,1
        [3,3]((23,66,213),(20,57,184),(34,97,313)); lvl=5; h,r-ind=1,1
        [3,3]((14,40,129),(23,66,213),(34,97,313)); lvl=5; h,r-ind=1,1
      [5,3]((6,17,55),(35,100,323),(8,22,71),(20,57,184),(11,31,100)); lvl=4; h,r-ind=1,1
        [4,3]((20,57,184),(26,74,239),(43,122,394),(37,105,339)); lvl=5; h,r-ind=1,1
          [3,3]((63,179,578),(43,122,394),(26,74,239)); lvl=6; h,r-ind=1,1
          [3,3]((20,57,184),(63,179,578),(26,74,239)); lvl=6; h,r-ind=1,1
          [3,3]((37,105,339),(63,179,578),(43,122,394)); lvl=6; h,r-ind=1,1
          [3,3]((20,57,184),(37,105,339),(63,179,578)); lvl=6; h,r-ind=1,1
        [4,3]((17,48,155),(11,31,100),(43,122,394),(37,105,339)); lvl=5; h,r-ind=1,1
          [3,3]((11,31,100),(37,105,339),(54,153,494)); lvl=6; h,r-ind=1,1
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            [3,3]((43,122,394),(37,105,339),(54,153,494)); lvl=6; h,r-ind=1,1
            [3,3]((17,48,155),(43,122,394),(54,153,494)); lvl=6; h,r-ind=1,1
            [3,3]((17,48,155),(11,31,100),(54,153,494)); lvl=6; h,r-ind=1,1
          [3,3]((6,17,55),(17,48,155),(43,122,394)); lvl=5; h,r-ind=1,1
          [3,3]((8,22,71),(17,48,155),(11,31,100)); lvl=5; h,r-ind=1,1
          [3,3]((6,17,55),(8,22,71),(17,48,155)); lvl=5; h,r-ind=1,1
          [3,3]((11,31,100),(20,57,184),(37,105,339)); lvl=5; h,r-ind=1,1
          [3,3]((35,100,323),(20,57,184),(26,74,239)); lvl=5; h,r-ind=1,1
          [3,3]((6,17,55),(35,100,323),(26,74,239)); lvl=5; h,r-ind=1,1
          [3,3]((6,17,55),(26,74,239),(43,122,394)); lvl=5; h,r-ind=1,1
        [4,3]((9,26,84),(35,100,323),(23,66,213),(20,57,184)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((29,83,268),(20,57,184),(35,100,323)); lvl=5; h,r-ind=1,1
          [3,3]((9,26,84),(29,83,268),(35,100,323)); lvl=5; h,r-ind=1,1
          [3,3]((23,66,213),(29,83,268),(20,57,184)); lvl=5; h,r-ind=1,1
          [3,3]((9,26,84),(23,66,213),(29,83,268)); lvl=5; h,r-ind=1,1
        [3,3]((6,17,55),(9,26,84),(35,100,323)); lvl=4; h,r-ind=1,1
        [3,3]((23,66,213),(26,75,242),(14,40,129)); lvl=4; h,r-ind=1,1
        [3,3]((9,26,84),(23,66,213),(26,75,242)); lvl=4; h,r-ind=1,1
      [3,3]((11,30,97),(6,17,55),(8,22,71)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,55),(9,26,84),(13,38,123)); lvl=3; h,r-ind=1,1
    [3,3]((8,25,81),(7,22,71),(3,9,29)); lvl=2; h,r-ind=1,1
    [4,3]((9,25,80),(6,16,51),(5,14,45),(2,5,16)); lvl=2; h,r-ind=1,1
      [3,3]((11,30,96),(2,5,16),(6,16,51)); lvl=3; h,r-ind=1,1
      [3,3]((9,25,80),(11,30,96),(6,16,51)); lvl=3; h,r-ind=1,1
      [3,3]((5,14,45),(11,30,96),(2,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((9,25,80),(5,14,45),(11,30,96)); lvl=3; h,r-ind=1,1
    [4,3]((7,20,64),(3,9,29),(9,25,80),(5,14,45)); lvl=2; h,r-ind=1,1
      [3,3]((12,34,109),(5,14,45),(3,9,29)); lvl=3; h,r-ind=1,1
      [3,3]((7,20,64),(12,34,109),(3,9,29)); lvl=3; h,r-ind=1,1
      [3,3]((9,25,80),(7,20,64),(12,34,109)); lvl=3; h,r-ind=1,1
      [3,3]((9,25,80),(12,34,109),(5,14,45)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,19),(7,20,64),(6,17,54),(3,9,29)); lvl=2; h,r-ind=1,1
      [3,3]((9,26,83),(7,20,64),(6,17,54)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,19),(9,26,83),(6,17,54)); lvl=3; h,r-ind=1,1
      [3,3]((9,26,83),(3,9,29),(7,20,64)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,19),(9,26,83),(3,9,29)); lvl=3; h,r-ind=1,1
    [3,3]((7,22,71),(2,6,19),(3,9,29)); lvl=2; h,r-ind=1,1
    [6,3]((1,2,6),(7,20,64),(6,17,54),(3,8,25),(9,25,80),(6,16,51)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,25),(4,11,35),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((6,16,51),(4,11,35),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((9,25,80),(6,16,51),(4,11,35)); lvl=3; h,r-ind=1,1
      [3,3]((7,20,64),(9,25,80),(4,11,35)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,54),(3,8,25),(4,11,35)); lvl=3; h,r-ind=1,1
      [3,3]((7,20,64),(6,17,54),(4,11,35)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,19),(2,5,15),(6,17,54),(3,8,25)); lvl=2; h,r-ind=1,1
      [3,3]((5,14,44),(3,8,25),(2,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,19),(5,14,44),(2,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,54),(2,6,19),(5,14,44)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,54),(5,14,44),(3,8,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(3,5,16),(2,5,16)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,6),(6,16,51),(1,1,3),(2,5,16)); lvl=2; h,r-ind=1,1
      [3,3]((6,16,51),(3,7,22),(2,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,7,22),(2,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(1,1,3),(3,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(6,16,51),(3,7,22)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,15),(1,2,6),(3,8,25)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(3,5,16),(1,1,3)); lvl=1; h,r-ind=1,1
[4,3]((2,7,23),(4,13,42),(7,22,71),(8,25,81)); lvl=1; h,r-ind=1,1
    [3,3]((7,22,71),(4,13,42),(16,51,165)); lvl=2; h,r-ind=1,1
    [4,3]((5,16,52),(2,7,23),(4,13,42),(16,51,165)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((9,29,94),(4,13,42),(2,7,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,52),(9,29,94),(2,7,23)); lvl=3; h,r-ind=1,1
      [3,3]((16,51,165),(9,29,94),(4,13,42)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,52),(16,51,165),(9,29,94)); lvl=3; h,r-ind=1,1
    [4,3]((8,25,81),(5,16,52),(7,22,71),(16,51,165)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((12,38,123),(5,16,52),(16,51,165)); lvl=3; h,r-ind=1,1
      [3,3]((7,22,71),(12,38,123),(16,51,165)); lvl=3; h,r-ind=1,1
      [3,3]((8,25,81),(12,38,123),(5,16,52)); lvl=3; h,r-ind=1,1
      [3,3]((7,22,71),(8,25,81),(12,38,123)); lvl=3; h,r-ind=1,1
[4,3]((1,0,0),(2,7,23),(8,25,81),(3,5,16)); lvl=1; h,r-ind=1,1
    [4,3]((5,16,52),(3,8,26),(11,30,97),(8,25,81)); lvl=2; h,r-ind=1,1
      [4,3]((4,12,39),(3,8,26),(13,38,123),(6,17,55)); lvl=3; h,r-ind=1,1
        [3,3]((3,8,26),(10,29,94),(6,17,55)); lvl=4; h,r-ind=1,1
        [3,3]((13,38,123),(10,29,94),(6,17,55)); lvl=4; h,r-ind=1,1
        [3,3]((4,12,39),(13,38,123),(10,29,94)); lvl=4; h,r-ind=1,1
        [3,3]((4,12,39),(3,8,26),(10,29,94)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,26),(11,30,97),(6,17,55)); lvl=3; h,r-ind=1,1
      [4,3]((5,16,52),(4,12,39),(8,25,81),(13,38,123)); lvl=3; h,r-ind=1,1
        [3,3]((4,12,39),(13,38,123),(7,21,68)); lvl=4; h,r-ind=1,1
        [3,3]((4,12,39),(16,49,159),(7,21,68)); lvl=4; h,r-ind=1,1
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      [4,3]((5,16,52),(8,25,81),(16,49,159),(7,21,68)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,21,68),(12,37,120),(8,25,81)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,52),(12,37,120),(8,25,81)); lvl=5; h,r-ind=1,1
        [3,3]((16,49,159),(5,16,52),(12,37,120)); lvl=5; h,r-ind=1,1
        [3,3]((16,49,159),(7,21,68),(12,37,120)); lvl=5; h,r-ind=1,1
      [3,3]((5,16,52),(4,12,39),(16,49,159)); lvl=4; h,r-ind=1,1
  [4,3]((3,5,16),(3,8,26),(2,4,13),(11,30,97)); lvl=2; h,r-ind=1,1
    [3,3]((12,29,94),(3,8,26),(2,4,13)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,16),(9,22,71),(12,29,94),(2,4,13)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((2,4,13),(15,34,110),(7,17,55),(12,29,94)); lvl=4; h,r-ind=1,3
        [3,3]((9,21,68),(7,17,55),(15,34,110)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,13),(9,21,68),(15,34,110)); lvl=5; h,r-ind=1,1
        [3,3]((12,29,94),(9,21,68),(7,17,55)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,13),(12,29,94),(9,21,68)); lvl=5; h,r-ind=1,1
      [3,3]((4,9,29),(15,34,110),(7,17,55)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((4,9,29),(9,22,71),(7,17,55)); lvl=4; h,r-ind=1,1
      [4,3]((2,4,13),(3,5,16),(4,9,29),(15,34,110)); lvl=4; h,r-ind=1,3
        [3,3]((6,13,42),(4,9,29),(3,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,13),(6,13,42),(3,5,16)); lvl=5; h,r-ind=1,1
        [3,3]((15,34,110),(6,13,42),(4,9,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,13),(15,34,110),(6,13,42)); lvl=5; h,r-ind=1,1
    [4,3]((5,13,42),(9,22,71),(12,29,94),(3,8,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,26),(7,17,55),(12,29,94)); lvl=4; h,r-ind=1,1
      [3,3]((15,38,123),(3,8,26),(7,17,55)); lvl=4; h,r-ind=1,1
      [3,3]((5,13,42),(15,38,123),(3,8,26)); lvl=4; h,r-ind=1,1
      [4,3]((5,13,42),(15,38,123),(7,17,55),(9,22,71)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((15,38,123),(12,30,97),(7,17,55)); lvl=5; h,r-ind=1,1
        [3,3]((9,22,71),(12,30,97),(7,17,55)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,42),(15,38,123),(12,30,97)); lvl=5; h,r-ind=1,1
        [3,3]((9,22,71),(5,13,42),(12,30,97)); lvl=5; h,r-ind=1,1
    [3,3]((5,13,42),(11,30,97),(3,8,26)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(3,5,16),(2,4,13)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,23),(3,8,26),(2,4,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,7,23),(2,4,13)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,23),(5,16,52),(3,8,26)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[6,3]((2,7,16),(4,14,23),(1,3,8),(1,1,2),(2,5,15),(1,1,3)); lvl=1; h,r-ind=1,1
  [5,3]((1,3,7),(3,8,20),(1,3,6),(2,5,11),(2,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,12),(3,8,20),(3,8,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(3,8,20),(3,8,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(1,3,6),(4,11,25)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,12),(6,16,37),(5,13,30),(3,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((8,21,49),(6,16,37),(5,13,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(8,21,49),(5,13,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,19),(8,21,49),(6,16,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(3,8,19),(8,21,49)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,7),(4,11,25),(6,16,37),(3,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,25),(6,16,37),(7,19,44)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,19),(6,16,37),(7,19,44)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(4,11,25),(7,19,44)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,19),(1,3,7),(7,19,44)); lvl=4; h,r-ind=1,1
    [5,3]((1,3,6),(4,11,25),(2,5,11),(6,16,37),(5,13,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,18),(5,13,30),(6,16,37)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,18),(4,11,25),(6,16,37)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(3,8,18),(4,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,18),(2,5,11),(5,13,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(3,8,18),(2,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,11),(2,5,12),(5,13,30)); lvl=3; h,r-ind=1,1
  [5,3]((2,3,7),(1,1,3),(1,2,6),(2,5,11),(2,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(2,5,12),(1,2,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(1,2,5),(1,2,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(1,1,3),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,5,11),(2,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(1,2,5),(2,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(2,4,9),(1,2,5)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,2),(2,3,7),(1,1,3)); lvl=2; h,r-ind=1,1
  [5,3]((3,8,21),(3,8,20),(1,2,6),(2,5,14),(2,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,14),(1,2,6),(2,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,12),(1,2,6),(2,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,20),(2,5,12),(2,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,21),(2,5,14),(2,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,20),(3,8,21),(2,5,13)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,15),(1,2,6),(2,5,14)); lvl=2; h,r-ind=1,1
  [4,3]((3,8,21),(1,3,8),(2,5,15),(2,5,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,22),(2,5,15),(1,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,21),(3,8,22),(1,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,22),(2,5,14),(2,5,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,21),(3,8,22),(2,5,14)); lvl=3; h,r-ind=1,1
  [4,3]((3,8,21),(1,3,7),(3,8,20),(1,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,20),(1,3,7),(4,11,28)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(1,3,7),(4,11,28)); lvl=3; h,r-ind=1,1
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      [3,3]((3,8,21),(3,8,20),(4,11,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(3,8,21),(4,11,28)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,16),(1,3,7),(1,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,10),(2,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,7),(2,5,10),(2,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,10),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,9),(2,5,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,2),(1,2,4),(2,4,9),(2,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,4),(2,4,9),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(2,4,9),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(1,2,4),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(1,1,2),(3,5,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,5),(2,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,3,5),(2,5,10)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,7,12),(1,3,6),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,12),(4,14,23),(1,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,16),(4,14,27),(1,3,7),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,6),(1,3,7),(5,16,34)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,16),(4,14,29),(1,3,7),(5,16,34)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,3,7),(7,23,50),(3,10,21),(5,16,34)); lvl=4; h,r-ind=1,3
          [3,3]((4,13,28),(3,10,21),(7,23,50)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(4,13,28),(7,23,50)); lvl=5; h,r-ind=1,1
          [3,3]((5,16,34),(4,13,28),(3,10,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(5,16,34),(4,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,15),(7,23,50),(3,10,21)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,3,7),(2,7,16),(2,7,15),(7,23,50)); lvl=4; h,r-ind=1,3
          [3,3]((3,10,22),(2,7,15),(2,7,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(3,10,22),(2,7,16)); lvl=5; h,r-ind=1,1
          [3,3]((7,23,50),(3,10,22),(2,7,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(7,23,50),(3,10,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,15),(3,10,21),(4,14,29)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,14),(4,14,29),(1,3,6),(5,16,34)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,6),(5,16,34),(3,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(6,20,41),(3,10,21)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,14),(4,14,29),(6,20,41),(3,10,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,17,35),(6,20,41),(3,10,21)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,29),(5,17,35),(3,10,21)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,14),(4,14,29),(5,17,35)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,14),(5,17,35),(6,20,41)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(2,7,14),(6,20,41)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,14),(4,14,27),(1,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((4,14,27),(2,7,12),(1,3,6)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=1; h,r-ind=1,1
  [5,3]((1,0,0),(0,1,0),(1,4,6),(4,14,23),(1,1,2)); lvl=1; h,r-ind=1,1
    [4,3]((2,7,10),(4,14,21),(1,4,6),(0,1,0)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,6),(4,14,21),(3,11,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(4,14,21),(3,11,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,19,27),(1,4,6),(3,11,16)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,10),(1,4,5),(5,19,27),(3,11,16)); lvl=3; h,r-ind=1,1
        [3,3]((4,15,21),(1,4,5),(5,19,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,21),(3,11,16),(5,19,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(4,15,21),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(4,15,21),(1,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((0,1,0),(1,4,5),(5,19,27),(1,4,6)); lvl=3; h,r-ind=1,1
        [3,3]((2,8,11),(1,4,5),(5,19,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(2,8,11),(5,19,27)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,8,11),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(0,1,0),(2,8,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,4),(1,3,3),(2,7,10),(0,1,0)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,5),(0,1,0),(2,7,8)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,3,3),(0,1,0),(2,7,8)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,3,4),(1,3,3),(2,7,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(2,7,10),(1,4,5),(2,7,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,10),(2,7,9),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(2,7,9),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,8),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,10),(2,7,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,3,3),(0,1,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,4),(1,3,3),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,2,3),(1,3,3),(2,5,6)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((1,3,3),(2,3,3),(2,5,6),(4,7,9)); lvl=3; h,r-ind=3,1
        [3,3]((3,5,6),(4,7,9),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,5,6),(2,4,5)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,3),(2,5,6),(1,2,2),(2,4,5)); lvl=4; h,r-ind=1,1
          [3,3]((1,2,2),(2,4,5),(3,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,6),(2,4,5),(3,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(2,5,6),(3,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(1,2,2),(3,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,3),(1,2,2),(3,5,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,0,0),(2,3,3),(2,2,3),(4,7,9)); lvl=3; h,r-ind=3,1
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      [3,3]((3,5,6),(2,3,4),(4,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(3,5,6),(2,3,4)); lvl=4; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,3),(1,1,1),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(2,3,4),(3,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(2,3,4),(3,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,0),(1,1,1),(3,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(3,5,6)); lvl=4; h,r-ind=1,1
  [4,3]((4,14,21),(1,3,5),(4,14,23),(1,4,6)); lvl=2; h,r-ind=1,4; alert-r-inc
    [3,3]((2,7,11),(1,3,5),(4,14,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,11),(4,14,23)); lvl=3; h,r-ind=1,1
    [3,3]((4,14,21),(2,7,11),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(4,14,21),(2,7,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,4),(2,7,10),(4,14,21),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,10),(4,14,21),(3,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(4,14,21),(3,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,10),(3,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,4),(3,10,15)); lvl=3; h,r-ind=1,1
  [5,3]((2,2,3),(1,3,4),(2,5,6),(1,3,5),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,2,3),(4,7,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,5,6),(1,2,3),(4,7,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,4),(2,5,6),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,5),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,3),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,1,2),(1,2,3)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
[5,3]((2,7,16),(3,11,25),(1,4,6),(4,14,23),(1,4,8)); lvl=1; h,r-ind=1,1
  [3,3]((3,11,24),(1,4,8),(3,11,25)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,16),(3,11,24),(3,11,25)); lvl=2; h,r-ind=1,1
  [4,3]((3,11,24),(3,11,21),(1,4,7),(1,4,8)); lvl=2; h,r-ind=1,1
    [4,3]((6,22,45),(6,23,45),(3,11,21),(1,4,7)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((4,15,30),(6,23,45),(9,34,66),(1,4,7)); lvl=4; h,r-ind=1,3
        [3,3]((1,4,7),(6,23,45),(5,19,37)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,30),(6,23,45),(5,19,37)); lvl=5; h,r-ind=1,1
        [3,3]((9,34,66),(1,4,7),(5,19,37)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,30),(9,34,66),(5,19,37)); lvl=5; h,r-ind=1,1
      [4,3]((3,11,22),(3,11,21),(9,34,66),(1,4,7)); lvl=4; h,r-ind=1,3
        [3,3]((1,4,7),(4,15,29),(3,11,21)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,22),(4,15,29),(3,11,21)); lvl=5; h,r-ind=1,1
        [3,3]((9,34,66),(1,4,7),(4,15,29)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,22),(9,34,66),(4,15,29)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,22),(4,15,30),(9,34,66)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((6,22,45),(3,11,22),(4,15,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,8),(6,23,45),(1,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((3,11,24),(6,22,45),(1,4,8),(6,23,45)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,4,8),(9,34,69),(4,15,30),(6,23,45)); lvl=4; h,r-ind=1,3
        [3,3]((9,34,69),(4,15,30),(5,19,38)); lvl=5; h,r-ind=1,1
        [3,3]((6,23,45),(4,15,30),(5,19,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(9,34,69),(5,19,38)); lvl=5; h,r-ind=1,1
        [3,3]((6,23,45),(1,4,8),(5,19,38)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,23),(9,34,69),(4,15,30)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,4,8),(3,11,24),(3,11,23),(9,34,69)); lvl=4; h,r-ind=1,3
        [3,3]((4,15,31),(3,11,24),(3,11,23)); lvl=5; h,r-ind=1,1
        [3,3]((9,34,69),(4,15,31),(3,11,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(9,34,69),(4,15,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(4,15,31),(3,11,24)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,23),(4,15,30),(6,22,45)); lvl=4; h,r-ind=1,1
  [4,3]((2,7,16),(4,14,27),(3,11,24),(3,11,21)); lvl=2; h,r-ind=1,1
    [4,3]((4,14,29),(2,7,14),(3,11,21),(6,22,45)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,14),(3,11,21),(3,11,22),(12,43,87)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((5,18,36),(3,11,21),(3,11,22)); lvl=5; h,r-ind=1,1
        [3,3]((12,43,87),(5,18,36),(3,11,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,14),(12,43,87),(5,18,36)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,14),(5,18,36),(3,11,21)); lvl=5; h,r-ind=1,1
      [4,3]((5,18,37),(7,25,51),(3,11,22),(12,43,87)); lvl=4; h,r-ind=1,1
        [3,3]((7,25,51),(12,43,87),(10,36,73)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,22),(12,43,87),(10,36,73)); lvl=5; h,r-ind=1,1
        [3,3]((5,18,37),(7,25,51),(10,36,73)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,22),(5,18,37),(10,36,73)); lvl=5; h,r-ind=1,1
      [3,3]((6,22,45),(5,18,37),(3,11,22)); lvl=4; h,r-ind=1,1
      [3,3]((4,14,29),(5,18,37),(7,25,51)); lvl=4; h,r-ind=1,1
      [4,3]((4,14,29),(7,25,51),(2,7,14),(12,43,87)); lvl=4; h,r-ind=1,1
        [3,3]((9,32,65),(7,25,51),(12,43,87)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,14),(9,32,65),(12,43,87)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,29),(9,32,65),(7,25,51)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,14),(4,14,29),(9,32,65)); lvl=5; h,r-ind=1,1
    [4,3]((2,7,16),(4,14,29),(3,11,24),(6,22,45)); lvl=3; h,r-ind=3,1; alert-h-inc
      [3,3]((6,22,45),(5,18,37),(3,11,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,15),(5,18,37),(3,11,23)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,16),(2,7,15),(3,11,24),(3,11,23)); lvl=4; h,r-ind=1,1
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        [3,3]((3,11,23),(3,11,24),(5,18,39)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,16),(3,11,24),(5,18,39)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,15),(2,7,16),(5,18,39)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,15),(3,11,23),(5,18,39)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,15),(4,14,29),(5,18,37)); lvl=4; h,r-ind=1,1
    [3,3]((4,14,27),(2,7,14),(3,11,21)); lvl=3; h,r-ind=1,1
  [5,3]((4,14,27),(2,7,12),(1,4,6),(3,11,21),(1,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,13),(4,15,26),(1,4,7),(6,22,41)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,26),(3,11,20),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((6,22,41),(3,11,20),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,13),(6,22,41),(3,11,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,13),(4,15,26),(3,11,20)); lvl=4; h,r-ind=1,1
    [3,3]((3,11,21),(1,4,7),(6,22,41)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,13),(4,14,27),(3,11,21),(6,22,41)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,18,34),(4,14,27),(3,11,21)); lvl=4; h,r-ind=1,1
      [3,3]((6,22,41),(5,18,34),(3,11,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,13),(6,22,41),(5,18,34)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,13),(5,18,34),(4,14,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(4,15,26),(1,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,13),(2,7,12),(1,4,6),(4,15,26)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,12),(1,4,6),(3,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((4,15,26),(1,4,6),(3,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,13),(2,7,12),(3,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((4,15,26),(2,7,13),(3,11,19)); lvl=4; h,r-ind=1,1
  [3,3]((4,14,23),(2,7,12),(1,4,6)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,4,6),(1,4,8)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((0,1,0),(3,11,33),(3,11,25),(1,4,8)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,9),(2,8,19),(3,11,29),(3,11,25)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,19),(7,27,65),(3,11,29)); lvl=3; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,11,27),(7,27,65),(3,11,29)); lvl=3; h,r-ind=8,4; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,4,9),(3,11,25),(3,11,27),(7,27,65)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,4,9),(5,19,45),(3,11,26),(3,11,25)); lvl=4; h,r-ind=1,2
        [3,3]((3,11,26),(4,15,35),(5,19,45)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,9),(4,15,35),(5,19,45)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,25),(1,4,9),(4,15,35)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,25),(3,11,26),(4,15,35)); lvl=5; h,r-ind=1,1
      [3,3]((5,19,45),(3,11,27),(3,11,26)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((5,19,46),(5,19,45),(3,11,27)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,4,9),(7,27,65),(5,19,46),(5,19,45)); lvl=4; h,r-ind=1,2
        [3,3]((7,27,65),(6,23,55),(5,19,46)); lvl=5; h,r-ind=1,1
        [3,3]((5,19,45),(6,23,55),(5,19,46)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,9),(7,27,65),(6,23,55)); lvl=5; h,r-ind=1,1
        [3,3]((5,19,45),(1,4,9),(6,23,55)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,9),(2,8,19),(7,27,65)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,9),(1,4,8),(3,11,25)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,9),(1,4,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,9),(2,8,19)); lvl=2; h,r-ind=1,1
  [4,3]((3,11,33),(1,4,11),(2,8,19),(3,11,29)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,29),(2,8,19),(1,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,29),(3,11,31),(1,4,10)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((3,11,33),(3,11,31),(1,4,11),(1,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,11),(5,19,53),(1,4,10)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,32),(3,11,31),(5,19,53),(1,4,10)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,31),(4,15,42),(1,4,10)); lvl=5; h,r-ind=1,1
        [3,3]((5,19,53),(4,15,42),(1,4,10)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,32),(5,19,53),(4,15,42)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,32),(3,11,31),(4,15,42)); lvl=5; h,r-ind=1,1
      [4,3]((3,11,33),(3,11,32),(1,4,11),(5,19,53)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,32),(5,19,53),(4,15,43)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,11),(5,19,53),(4,15,43)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,33),(1,4,11),(4,15,43)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,33),(3,11,32),(4,15,43)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,11),(2,8,19)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[3,3]((2,7,23),(0,1,0),(3,11,33)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((1,3,8),(2,5,15),(2,6,19)); lvl=1; h,r-ind=3,3; optimized-h
[8,3]((4,13,42),(2,7,22),(7,22,71),(3,11,33),(2,7,16),(3,11,25),(1,3,8),(2,6,19)); lvl=1; h,r-ind=1,1
  [4,3]((3,10,32),(4,13,42),(4,13,41),(6,19,61)); lvl=2; h,r-ind=1,1
    [4,3]((12,39,125),(5,16,51),(6,19,61),(4,13,42)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((9,29,93),(6,19,61),(5,16,51)); lvl=4; h,r-ind=1,1
      [3,3]((12,39,125),(9,29,93),(5,16,51)); lvl=4; h,r-ind=1,1
      [3,3]((9,29,93),(4,13,42),(6,19,61)); lvl=4; h,r-ind=1,1
      [3,3]((12,39,125),(9,29,93),(4,13,42)); lvl=4; h,r-ind=1,1
    [3,3]((3,10,32),(12,39,125),(4,13,42)); lvl=3; h,r-ind=1,1
    [4,3]((3,10,32),(12,39,125),(4,13,41),(5,16,51)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,16,51),(12,39,125),(8,26,83)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,32),(12,39,125),(8,26,83)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,41),(5,16,51),(8,26,83)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,32),(4,13,41),(8,26,83)); lvl=4; h,r-ind=1,1
  [4,3]((2,6,19),(1,3,9),(4,13,41),(6,19,61)); lvl=2; h,r-ind=1,1
    [4,3]((8,25,79),(5,16,51),(4,13,41),(1,3,9)); lvl=3; h,r-ind=1,2; alert-r-inc
```

```
      [3,3]((6,19,60),(4,13,41),(5,16,51)); lvl=4; h,r-ind=1,1
      [3,3]((8,25,79),(6,19,60),(5,16,51)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(8,25,79),(6,19,60)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(6,19,60),(4,13,41)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,19),(8,25,79),(1,3,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,19),(8,25,79),(5,16,51),(6,19,61)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((7,22,70),(8,25,79),(5,16,51)); lvl=4; h,r-ind=1,1
      [3,3]((6,19,61),(7,22,70),(5,16,51)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,19),(6,19,61),(7,22,70)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,19),(7,22,70),(8,25,79)); lvl=4; h,r-ind=1,1
  [4,3]((2,7,19),(2,7,21),(1,3,9),(4,13,41)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc
    [4,3]((1,3,9),(4,13,41),(3,10,31),(4,13,39)); lvl=3; h,r-ind=1,2
      [3,3]((4,13,40),(4,13,41),(3,10,31)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,39),(4,13,40),(3,10,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(4,13,39),(4,13,40)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(4,13,40),(4,13,41)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,20),(2,7,21),(3,10,31),(4,13,39)); lvl=3; h,r-ind=1,2
      [3,3]((3,10,30),(2,7,21),(3,10,31)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,39),(3,10,30),(3,10,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,20),(4,13,39),(3,10,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,20),(3,10,30),(2,7,21)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,9),(2,7,19),(2,7,20),(4,13,39)); lvl=3; h,r-ind=1,2
      [3,3]((3,10,29),(2,7,19),(2,7,20)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,39),(3,10,29),(2,7,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(4,13,39),(3,10,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(3,10,29),(2,7,19)); lvl=4; h,r-ind=1,1
  [4,3]((2,7,17),(2,7,19),(1,3,8),(1,3,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,8),(1,3,9),(4,13,35)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,18),(2,7,19),(1,3,9),(4,13,35)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,19),(3,10,27),(1,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,35),(3,10,27),(1,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,18),(4,13,35),(3,10,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,18),(2,7,19),(3,10,27)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,17),(2,7,18),(1,3,8),(4,13,35)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,18),(4,13,35),(3,10,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(4,13,35),(3,10,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,17),(2,7,18),(3,10,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(2,7,17),(3,10,26)); lvl=4; h,r-ind=1,1
  [3,3]((2,7,16),(2,7,17),(1,3,8)); lvl=2; h,r-ind=1,1
  [4,3]((3,11,33),(3,11,29),(2,7,19),(2,7,21)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((3,11,31),(2,7,20),(3,11,29),(2,7,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,19),(2,7,20),(7,25,69)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,31),(3,11,30),(2,7,20),(7,25,69)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,30),(5,18,50),(7,25,69)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,20),(5,18,50),(7,25,69)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,31),(2,7,20),(5,18,50)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,31),(3,11,30),(5,18,50)); lvl=5; h,r-ind=1,1
      [4,3]((3,11,29),(3,11,30),(2,7,19),(7,25,69)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,30),(7,25,69),(5,18,49)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,19),(7,25,69),(5,18,49)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,29),(3,11,30),(5,18,49)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,19),(3,11,29),(5,18,49)); lvl=5; h,r-ind=1,1
    [4,3]((3,11,33),(3,11,31),(2,7,21),(2,7,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,21),(7,25,73),(2,7,20)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,32),(3,11,31),(7,25,73),(2,7,20)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,31),(5,18,52),(2,7,20)); lvl=5; h,r-ind=1,1
        [3,3]((7,25,73),(5,18,52),(2,7,20)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,32),(3,11,31),(5,18,52)); lvl=5; h,r-ind=1,1
        [3,3]((7,25,73),(3,11,32),(5,18,52)); lvl=5; h,r-ind=1,1
      [4,3]((3,11,33),(3,11,32),(2,7,21),(7,25,73)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,32),(7,25,73),(5,18,53)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,21),(7,25,73),(5,18,53)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,33),(3,11,32),(5,18,53)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,21),(3,11,33),(5,18,53)); lvl=5; h,r-ind=1,1
  [4,3]((3,11,25),(2,7,17),(3,11,29),(2,7,19)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((3,11,29),(3,11,27),(2,7,19),(2,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,19),(7,25,65),(2,7,18)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,28),(3,11,27),(7,25,65),(2,7,18)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,18,46),(2,7,18),(3,11,27)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,28),(5,18,46),(3,11,27)); lvl=5; h,r-ind=1,1
        [3,3]((7,25,65),(5,18,46),(2,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,28),(7,25,65),(5,18,46)); lvl=5; h,r-ind=1,1
      [4,3]((3,11,29),(3,11,28),(2,7,19),(7,25,65)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,28),(7,25,65),(5,18,47)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,19),(7,25,65),(5,18,47)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,29),(3,11,28),(5,18,47)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,19),(3,11,29),(5,18,47)); lvl=5; h,r-ind=1,1
    [4,3]((3,11,25),(3,11,27),(2,7,17),(2,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,17),(2,7,18),(7,25,61)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,27),(3,11,26),(2,7,18),(7,25,61)); lvl=4; h,r-ind=1,2; alert-r-inc
```

```
          [3,3]((3,11,26),(7,25,61),(5,18,44)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,18),(7,25,61),(5,18,44)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,27),(3,11,26),(5,18,44)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,18),(3,11,27),(5,18,44)); lvl=5; h,r-ind=1,1
        [4,3]((3,11,25),(3,11,26),(2,7,17),(7,25,61)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,11,26),(5,18,43),(7,25,61)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,17),(5,18,43),(7,25,61)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,25),(3,11,26),(5,18,43)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,17),(3,11,25),(5,18,43)); lvl=5; h,r-ind=1,1
    [3,3]((2,7,16),(3,11,25),(2,7,17)); lvl=2; h,r-ind=1,1
    [3,3]((7,22,71),(4,13,42),(6,19,61)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,19),(7,22,71),(6,19,61)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,22),(2,7,21),(3,10,32),(4,13,41)); lvl=2; h,r-ind=1,1
      [4,3]((2,7,22),(8,27,85),(2,7,21),(3,10,31)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,31),(8,27,85),(5,17,53)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,22),(8,27,85),(5,17,53)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,21),(3,10,31),(5,17,53)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,22),(2,7,21),(5,17,53)); lvl=4; h,r-ind=1,1
      [4,3]((3,10,32),(8,27,85),(4,13,41),(3,10,31)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,27,85),(6,20,63),(3,10,31)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,41),(6,20,63),(3,10,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,32),(4,13,41),(6,20,63)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,32),(8,27,85),(6,20,63)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,32),(2,7,22),(8,27,85)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,22),(3,11,33),(2,7,21)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,23),(2,7,22),(3,11,33)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,23),(4,13,42),(2,7,22)); lvl=1; h,r-ind=2,2; optimized-h
```

23.30 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,8,23)); lvl=0; h,r-ind=23,529
  [5,3]((1,4,11),(2,6,17),(2,4,11),(2,5,13),(3,11,31)); lvl=1; h,r-ind=1,1
    [4,3]((6,17,47),(3,10,28),(1,3,8),(1,4,11)); lvl=2; h,r-ind=1,1
      [4,3]((3,9,25),(5,16,44),(3,10,28),(1,4,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,13,36),(1,4,11),(5,16,44)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,25),(4,13,36),(5,16,44)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,28),(4,13,36),(1,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,25),(3,10,28),(4,13,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(5,16,44),(1,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,25),(1,3,8),(5,16,44)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,25),(6,17,47),(1,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,28),(3,11,31),(1,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,17),(3,10,28),(3,11,31)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,17),(2,5,14),(6,17,47),(3,10,28)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,14),(3,9,25),(6,17,47)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,14),(7,20,56),(3,9,25)); lvl=3; h,r-ind=1,1
      [4,3]((3,10,28),(2,6,17),(7,20,56),(3,9,25)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,15,42),(2,6,17),(7,20,56)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,25),(5,15,42),(7,20,56)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,28),(5,15,42),(2,6,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,25),(3,10,28),(5,15,42)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,17),(2,5,14),(7,20,56)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,14),(6,17,47),(2,4,11),(1,3,8)); lvl=2; h,r-ind=1,1
      [3,3]((6,17,47),(3,8,22),(1,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,11),(3,8,22),(1,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,14),(6,17,47),(3,8,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,14),(2,4,11),(3,8,22)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,11),(2,5,13),(1,3,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,8,23),(1,4,11),(3,11,31)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,11),(1,4,8),(2,5,13)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,4,8),(1,4,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,4,11),(1,4,8)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,8,23),(0,1,0),(1,4,11)); lvl=1; h,r-ind=1,1
  [3,3]((2,8,23),(2,6,17),(3,11,31)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(2,6,17),(2,4,11)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,8,23),(1,0,0),(2,6,17)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,4,8),(1,4,6),(1,0,0),(2,4,11),(2,5,13)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,7),(1,2,4),(1,4,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,3),(1,2,4),(1,4,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(1,2,3),(1,2,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,4,7),(1,4,8),(1,3,7),(1,2,4)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,3,6),(1,3,7),(1,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(1,3,6),(1,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,2,4),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(1,3,6),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,5),(2,3,7)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((1,0,0),(1,2,4),(2,2,5),(2,3,7)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,4),(1,1,2),(2,3,7),(5,6,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,1,2),(3,4,9),(5,6,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(3,4,9),(5,6,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(2,3,7),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(1,1,2),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,5),(2,3,7),(5,6,14)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,5),(1,1,2),(5,6,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,7),(2,2,5),(5,6,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(3,3,7),(5,6,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,7),(2,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(1,0,0),(3,3,7)); lvl=4; h,r-ind=1,1
    [4,3]((3,5,13),(2,2,5),(1,2,5),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,10),(2,2,5),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(1,2,5),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(3,4,10),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(3,4,10),(2,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,11),(3,5,13),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,4,11),(3,5,13),(2,2,5)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,8),(3,5,13),(2,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,3,8),(2,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(2,2,5),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,3,8),(2,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,13),(1,3,7),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,13),(2,4,11),(1,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,6),(1,0,0)); lvl=1; h,r-ind=6,18; optimized-h
```

23.31 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,9,23)); lvl=0; h,r-ind=23,529
  [5,3]((2,6,9),(1,3,6),(2,5,11),(1,0,0),(2,3,7)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,6),(2,4,9),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,6),(2,4,9),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,4,9),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(1,1,2),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,0,0),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(1,1,2),(3,5,9),(1,0,0)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(3,5,9),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,9),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,2,3),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,2),(2,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,6),(1,2,4),(2,5,11),(2,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,6,13),(1,2,4),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(3,6,13),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(3,6,13),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(2,3,6),(3,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,2,4),(2,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(3,6,11),(1,3,6),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,9),(3,6,11),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,9),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,6),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,9),(3,6,11)); lvl=3; h,r-ind=1,1
    [4,3]((3,6,11),(2,3,6),(1,2,4),(4,7,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,6),(5,9,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,13),(2,3,6),(5,9,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,11),(1,2,4),(5,9,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,13),(3,6,11),(5,9,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,6),(3,5,9),(4,7,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,6),(4,7,13),(5,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(4,7,13),(5,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(5,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,9),(1,1,2),(5,8,15)); lvl=3; h,r-ind=1,1
    [5,3]((1,3,5),(1,2,3),(3,6,11),(3,5,9),(4,7,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,7),(4,7,13),(3,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(1,2,3),(3,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,4,7),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(3,6,11),(4,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,4,7),(3,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(1,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,5),(1,0,0),(2,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,9,23),(1,2,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((2,6,15),(1,2,5),(2,5,11),(1,3,7),(2,3,7)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,5),(5,11,26),(6,14,33),(2,5,12)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,26),(6,14,33),(7,16,38)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(6,14,33),(7,16,38)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(5,11,26),(7,16,38)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,5,12),(1,2,5),(7,16,38)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,7),(5,12,28),(6,14,33),(2,5,12)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,28),(6,14,33),(7,17,40)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(6,14,33),(7,17,40)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(5,12,28),(7,17,40)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(1,3,7),(7,17,40)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,15),(1,3,7),(2,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,15),(1,2,5),(2,5,12)); lvl=2; h,r-ind=1,1
    [6,3]((5,12,28),(2,4,9),(3,7,16),(3,6,14),(5,11,26),(6,14,33)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,21),(3,6,14),(5,11,26)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,21),(6,14,33),(5,11,26)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,21),(5,12,28),(6,14,33)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,21),(3,7,16),(5,12,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(4,9,21),(3,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,9),(4,9,21),(3,7,16)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,7),(5,12,28),(2,5,11),(3,7,16)); lvl=2; h,r-ind=1,1
      [3,3]((4,10,23),(3,7,16),(5,12,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(4,10,23),(5,12,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(4,10,23),(3,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,11),(4,10,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(2,5,11),(3,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(2,4,9),(3,6,14)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,7),(1,2,5),(3,6,14),(5,11,26)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,5),(5,11,26),(4,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,14),(5,11,26),(4,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(3,6,14),(4,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(1,2,5),(4,8,19)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,23),(2,6,15),(1,2,5)); lvl=1; h,r-ind=1,1
  [5,3]((2,7,14),(2,7,16),(1,3,6),(2,5,11),(1,3,7)); lvl=1; h,r-ind=1,1
    [4,3]((6,19,41),(5,16,35),(1,3,7),(2,6,13)); lvl=2; h,r-ind=1,1
      [3,3]((7,22,48),(1,3,7),(5,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((6,19,41),(7,22,48),(5,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,13),(7,22,48),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((6,19,41),(2,6,13),(7,22,48)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(1,3,7),(2,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,11),(2,6,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,6),(5,16,34),(6,19,41),(2,6,13)); lvl=2; h,r-ind=1,1
      [3,3]((5,16,34),(6,19,41),(7,22,47)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,13),(6,19,41),(7,22,47)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(5,16,34),(7,22,47)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,13),(1,3,6),(7,22,47)); lvl=3; h,r-ind=1,1
    [6,3]((2,7,15),(3,10,22),(3,10,21),(5,16,34),(6,19,41),(5,16,35)); lvl=2; h,r-ind=1,1
      [3,3]((5,16,35),(3,10,22),(4,13,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,15),(3,10,22),(4,13,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,15),(3,10,21),(4,13,28)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,35),(6,19,41),(4,13,28)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,34),(6,19,41),(4,13,28)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,21),(5,16,34),(4,13,28)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,14),(2,7,15),(3,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,16),(2,7,15),(3,10,22)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,14),(1,3,6),(3,10,21),(5,16,34)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,6),(5,16,34),(4,13,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,21),(5,16,34),(4,13,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,14),(3,10,21),(4,13,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,14),(1,3,6),(4,13,27)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,16),(3,10,22),(5,16,35),(1,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,29),(3,10,22),(5,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(4,13,29),(5,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,16),(4,13,29),(3,10,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,7,16),(4,13,29)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,10),(2,6,15),(2,7,16),(1,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,15),(2,7,17),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,16),(2,7,17),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,10),(2,7,16),(2,7,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,10),(2,6,15),(2,7,17)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,23),(1,4,10),(2,9,22)); lvl=1; h,r-ind=1,1
  [3,3]((2,9,23),(1,4,10),(2,6,15)); lvl=1; h,r-ind=1,1
  [5,3]((2,6,9),(2,8,11),(1,4,7),(2,7,14),(1,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,10),(1,4,6),(2,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,10),(1,3,5),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(2,7,10),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(4,14,23),(1,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,13),(4,14,23),(1,4,7),(1,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,7),(4,15,25),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,12),(4,15,25),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,12),(4,14,23),(1,4,6)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,13),(2,7,12),(1,4,7),(4,15,25)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,12),(4,15,25),(3,11,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(4,15,25),(3,11,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,13),(1,4,7),(3,11,19)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,7,13),(2,7,12),(3,11,19)); lvl=4; h,r-ind=1,1
  [3,3]((2,7,13),(1,4,7),(2,7,14)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,13),(1,3,6),(2,7,14)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,5),(2,7,13),(4,14,23),(1,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,6),(4,13,23),(2,7,12),(2,7,13)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,13,23),(3,10,18),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,13),(3,10,18),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,13),(3,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(4,13,23),(3,10,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,6),(4,13,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(4,13,23),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(4,14,23),(2,7,12)); lvl=3; h,r-ind=1,1
[6,3]((1,4,10),(2,9,22),(1,4,7),(2,9,15),(2,7,14),(2,7,16)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,9),(2,8,17),(2,7,15),(2,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,24),(2,7,15),(2,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(3,11,24),(2,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(2,7,16),(3,11,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,16),(3,11,24),(2,7,15)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,10),(1,4,9),(2,7,16)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,10),(1,4,9),(2,9,22)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,9),(4,18,37),(2,9,22),(2,8,17)); lvl=2; h,r-ind=1,1
    [5,3]((1,4,9),(2,9,22),(2,9,20),(4,17,37),(11,46,100)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,9),(2,9,22),(2,9,21),(4,17,38)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,30),(2,9,21),(2,9,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,9),(3,13,30),(2,9,22)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,38),(3,13,30),(2,9,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,9),(4,17,38),(3,13,30)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,20),(2,9,21),(4,17,38)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((2,9,20),(8,34,75),(7,30,66),(4,17,38)); lvl=4; h,r-ind=1,1
        [3,3]((8,34,75),(7,30,66),(18,77,170)); lvl=5; h,r-ind=1,1
        [4,3]((3,13,29),(2,9,20),(7,30,66),(18,77,170)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((10,43,95),(2,9,20),(7,30,66)); lvl=6; h,r-ind=1,1
          [3,3]((18,77,170),(10,43,95),(7,30,66)); lvl=6; h,r-ind=1,1
          [3,3]((3,13,29),(18,77,170),(10,43,95)); lvl=6; h,r-ind=1,1
          [3,3]((3,13,29),(10,43,95),(2,9,20)); lvl=6; h,r-ind=1,1
        [4,3]((4,17,38),(3,13,29),(8,34,75),(18,77,170)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((11,47,104),(3,13,29),(18,77,170)); lvl=6; h,r-ind=1,1
          [3,3]((11,47,104),(8,34,75),(18,77,170)); lvl=6; h,r-ind=1,1
          [3,3]((4,17,38),(11,47,104),(8,34,75)); lvl=6; h,r-ind=1,1
          [3,3]((4,17,38),(11,47,104),(3,13,29)); lvl=6; h,r-ind=1,1
      [4,3]((1,4,9),(5,21,46),(8,34,75),(4,17,38)); lvl=4; h,r-ind=1,1
        [3,3]((5,21,46),(8,34,75),(9,38,84)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,38),(8,34,75),(9,38,84)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,9),(5,21,46),(9,38,84)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,38),(1,4,9),(9,38,84)); lvl=5; h,r-ind=1,1
      [4,3]((5,21,46),(8,34,75),(7,30,66),(4,17,37)); lvl=4; h,r-ind=1,1
        [3,3]((7,30,66),(8,34,75),(12,51,112)); lvl=5; h,r-ind=1,1
        [3,3]((5,21,46),(8,34,75),(12,51,112)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,37),(5,21,46),(12,51,112)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,37),(7,30,66),(12,51,112)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,20),(7,30,66),(4,17,37)); lvl=4; h,r-ind=1,1
      [3,3]((11,46,100),(5,21,46),(4,17,37)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(11,46,100),(5,21,46)); lvl=4; h,r-ind=1,1
    [5,3]((3,13,27),(6,25,54),(2,9,19),(4,17,37),(11,46,100)); lvl=3; h,r-ind=1,1
      [4,3]((3,13,28),(8,34,73),(4,17,37),(10,42,91)); lvl=4; h,r-ind=1,1
        [4,3]((3,13,28),(16,68,147),(8,34,73),(9,38,82)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((16,68,147),(9,38,82),(12,51,110)); lvl=6; h,r-ind=1,1
          [3,3]((8,34,73),(9,38,82),(12,51,110)); lvl=6; h,r-ind=1,1
          [3,3]((3,13,28),(16,68,147),(12,51,110)); lvl=6; h,r-ind=1,1
          [3,3]((8,34,73),(3,13,28),(12,51,110)); lvl=6; h,r-ind=1,1
        [4,3]((4,17,37),(16,68,147),(10,42,91),(9,38,82)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((9,38,82),(16,68,147),(13,55,119)); lvl=6; h,r-ind=1,1
          [3,3]((4,17,37),(16,68,147),(13,55,119)); lvl=6; h,r-ind=1,1
          [3,3]((10,42,91),(9,38,82),(13,55,119)); lvl=6; h,r-ind=1,1
          [3,3]((4,17,37),(10,42,91),(13,55,119)); lvl=6; h,r-ind=1,1
        [3,3]((4,17,37),(3,13,28),(16,68,147)); lvl=5; h,r-ind=1,1
      [3,3]((11,46,100),(4,17,37),(10,42,91)); lvl=4; h,r-ind=1,1
      [3,3]((6,25,54),(11,46,100),(10,42,91)); lvl=4; h,r-ind=1,1
      [4,3]((6,25,54),(9,38,81),(8,34,73),(10,42,91)); lvl=4; h,r-ind=1,1
        [3,3]((5,21,45),(8,34,73),(9,38,81)); lvl=5; h,r-ind=1,1
        [3,3]((5,21,45),(9,38,82),(8,34,73)); lvl=5; h,r-ind=1,1
        [4,3]((6,25,54),(5,21,45),(10,42,91),(9,38,82)); lvl=5; h,r-ind=1,1
          [3,3]((15,63,136),(9,38,82),(5,21,45)); lvl=6; h,r-ind=1,1
          [3,3]((6,25,54),(15,63,136),(5,21,45)); lvl=6; h,r-ind=1,1
          [3,3]((10,42,91),(15,63,136),(9,38,82)); lvl=6; h,r-ind=1,1
          [3,3]((6,25,54),(10,42,91),(15,63,136)); lvl=6; h,r-ind=1,1
      [5,3]((3,13,27),(9,38,81),(3,13,28),(2,9,19),(8,34,73)); lvl=4; h,r-ind=1,1
        [4,3]((4,17,36),(8,34,73),(15,64,137),(9,38,81)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((12,51,109),(8,34,73),(15,64,137)); lvl=6; h,r-ind=1,1
          [3,3]((4,17,36),(12,51,109),(15,64,137)); lvl=6; h,r-ind=1,1
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          [3,3]((9,38,81),(12,51,109),(8,34,73)); lvl=6; h,r-ind=1,1
          [3,3]((4,17,36),(9,38,81),(12,51,109)); lvl=6; h,r-ind=1,1
        [3,3]((3,13,28),(8,34,73),(15,64,137)); lvl=5; h,r-ind=1,1
        [4,3]((4,17,36),(9,39,83),(3,13,28),(15,64,137)); lvl=5; h,r-ind=1,1
          [3,3]((3,13,28),(7,30,64),(9,39,83)); lvl=6; h,r-ind=1,1
          [3,3]((4,17,36),(7,30,64),(9,39,83)); lvl=6; h,r-ind=1,1
          [3,3]((15,64,137),(3,13,28),(7,30,64)); lvl=6; h,r-ind=1,1
          [3,3]((4,17,36),(15,64,137),(7,30,64)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,19),(9,39,83),(3,13,28)); lvl=5; h,r-ind=1,1
        [4,3]((3,13,27),(4,17,36),(2,9,19),(9,39,83)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,17,36),(9,39,83),(6,26,55)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,19),(9,39,83),(6,26,55)); lvl=6; h,r-ind=1,1
          [3,3]((3,13,27),(2,9,19),(6,26,55)); lvl=6; h,r-ind=1,1
          [3,3]((3,13,27),(4,17,36),(6,26,55)); lvl=6; h,r-ind=1,1
    [4,3]((1,4,9),(2,8,17),(6,25,54),(11,46,100)); lvl=3; h,r-ind=1,1
      [3,3]((7,29,63),(6,25,54),(2,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(7,29,63),(2,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((7,29,63),(11,46,100),(6,25,54)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(7,29,63),(11,46,100)); lvl=4; h,r-ind=1,1
    [3,3]((4,18,37),(3,13,27),(2,9,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,17),(3,13,27),(6,25,54)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,9,19),(2,9,20),(4,17,37)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,8,17),(2,7,14),(2,7,15),(1,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,23),(2,7,15),(2,7,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(3,11,23),(2,7,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,17),(1,4,8),(3,11,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,17),(3,11,23),(2,7,15)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,7),(2,7,14),(1,4,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,7),(2,9,15),(1,4,8)); lvl=2; h,r-ind=1,1
  [4,3]((2,9,15),(4,18,37),(2,8,17),(1,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((6,25,51),(2,8,17),(3,13,27)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((4,17,34),(11,46,93),(6,25,51),(2,9,18),(3,13,27)); lvl=3; h,r-ind=1,1
      [5,3]((3,13,26),(2,9,18),(3,13,27),(9,38,78),(8,34,69)); lvl=4; h,r-ind=1,1
        [4,3]((9,39,79),(4,17,35),(3,13,27),(2,9,18)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((6,26,53),(4,17,35),(3,13,27)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,18),(6,26,53),(3,13,27)); lvl=6; h,r-ind=1,1
          [3,3]((9,39,79),(2,9,18),(6,26,53)); lvl=6; h,r-ind=1,1
          [3,3]((9,39,79),(6,26,53),(4,17,35)); lvl=6; h,r-ind=1,1
        [3,3]((3,13,26),(9,39,79),(2,9,18)); lvl=5; h,r-ind=1,1
        [4,3]((3,13,26),(9,39,79),(15,64,130),(4,17,35)); lvl=5; h,r-ind=1,1
          [3,3]((4,17,35),(7,30,61),(9,39,79)); lvl=6; h,r-ind=1,1
          [3,3]((3,13,26),(7,30,61),(9,39,79)); lvl=6; h,r-ind=1,1
          [3,3]((3,13,26),(15,64,130),(7,30,61)); lvl=6; h,r-ind=1,1
          [3,3]((15,64,130),(4,17,35),(7,30,61)); lvl=6; h,r-ind=1,1
        [3,3]((3,13,26),(15,64,130),(8,34,69)); lvl=5; h,r-ind=1,1
        [4,3]((15,64,130),(8,34,69),(4,17,35),(9,38,78)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((12,51,104),(9,38,78),(8,34,69)); lvl=6; h,r-ind=1,1
          [3,3]((15,64,130),(12,51,104),(8,34,69)); lvl=6; h,r-ind=1,1
          [3,3]((12,51,104),(4,17,35),(9,38,78)); lvl=6; h,r-ind=1,1
          [3,3]((15,64,130),(12,51,104),(4,17,35)); lvl=6; h,r-ind=1,1
      [4,3]((6,25,51),(10,42,85),(9,38,78),(8,34,69)); lvl=4; h,r-ind=1,1
        [3,3]((5,21,43),(8,34,69),(9,38,77)); lvl=5; h,r-ind=1,1
        [4,3]((6,25,51),(5,21,43),(10,42,85),(9,38,77)); lvl=5; h,r-ind=1,1
          [3,3]((15,63,128),(9,38,77),(5,21,43)); lvl=6; h,r-ind=1,1
          [3,3]((6,25,51),(15,63,128),(5,21,43)); lvl=6; h,r-ind=1,1
          [3,3]((10,42,85),(15,63,128),(9,38,77)); lvl=6; h,r-ind=1,1
          [3,3]((6,25,51),(10,42,85),(15,63,128)); lvl=6; h,r-ind=1,1
        [3,3]((9,38,78),(5,21,43),(8,34,69)); lvl=5; h,r-ind=1,1
      [4,3]((4,17,34),(3,13,26),(10,42,85),(8,34,69)); lvl=4; h,r-ind=1,1
        [4,3]((16,68,137),(9,38,77),(8,34,69),(3,13,26)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((12,51,103),(9,38,77),(8,34,69)); lvl=6; h,r-ind=1,1
          [3,3]((3,13,26),(12,51,103),(8,34,69)); lvl=6; h,r-ind=1,1
          [3,3]((16,68,137),(3,13,26),(12,51,103)); lvl=6; h,r-ind=1,1
          [3,3]((16,68,137),(12,51,103),(9,38,77)); lvl=6; h,r-ind=1,1
        [3,3]((4,17,34),(16,68,137),(3,13,26)); lvl=5; h,r-ind=1,1
        [4,3]((4,17,34),(16,68,137),(10,42,85),(9,38,77)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((13,55,111),(9,38,77),(16,68,137)); lvl=6; h,r-ind=1,1
          [3,3]((4,17,34),(13,55,111),(16,68,137)); lvl=6; h,r-ind=1,1
          [3,3]((13,55,111),(10,42,85),(9,38,77)); lvl=6; h,r-ind=1,1
          [3,3]((4,17,34),(13,55,111),(10,42,85)); lvl=6; h,r-ind=1,1
      [3,3]((11,46,93),(4,17,34),(10,42,85)); lvl=4; h,r-ind=1,1
      [3,3]((11,46,93),(6,25,51),(10,42,85)); lvl=4; h,r-ind=1,1
    [3,3]((4,18,37),(2,9,18),(3,13,27)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,17),(4,17,34),(2,9,18)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,4,8),(11,46,93),(6,25,51),(2,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((7,29,59),(11,46,93),(6,25,51)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,17),(7,29,59),(6,25,51)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(2,8,17),(7,29,59)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(7,29,59),(11,46,93)); lvl=4; h,r-ind=1,1
    [5,3]((2,9,15),(2,9,17),(4,17,34),(1,4,8),(11,46,93)); lvl=3; h,r-ind=1,1
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      [3,3]((5,21,42),(4,17,34),(11,46,93)); lvl=4; h,r-ind=1,1
      [3,3]((5,21,42),(1,4,8),(11,46,93)); lvl=4; h,r-ind=1,1
      [4,3]((4,17,33),(8,34,67),(5,21,42),(1,4,8)); lvl=4; h,r-ind=1,1
        [3,3]((5,21,42),(8,34,67),(9,38,75)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,33),(8,34,67),(9,38,75)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(4,17,33),(9,38,75)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(5,21,42),(9,38,75)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,15),(2,9,16),(4,17,33),(1,4,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,16),(4,17,33),(3,13,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(4,17,33),(3,13,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,15),(2,9,16),(3,13,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(2,9,15),(3,13,24)); lvl=5; h,r-ind=1,1
      [4,3]((8,34,67),(7,30,59),(5,21,42),(4,17,34)); lvl=4; h,r-ind=1,1
        [3,3]((12,51,101),(4,17,34),(7,30,59)); lvl=5; h,r-ind=1,1
        [3,3]((8,34,67),(12,51,101),(7,30,59)); lvl=5; h,r-ind=1,1
        [3,3]((5,21,42),(8,34,67),(12,51,101)); lvl=5; h,r-ind=1,1
        [3,3]((5,21,42),(12,51,101),(4,17,34)); lvl=5; h,r-ind=1,1
      [3,3]((7,30,59),(2,9,17),(4,17,34)); lvl=4; h,r-ind=1,1
      [4,3]((4,17,33),(8,34,67),(7,30,59),(2,9,17)); lvl=4; h,r-ind=1,1
        [3,3]((7,30,59),(8,34,67),(18,77,151)); lvl=5; h,r-ind=1,1
        [4,3]((3,13,25),(4,17,33),(8,34,67),(18,77,151)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,17,33),(11,47,92),(8,34,67)); lvl=6; h,r-ind=1,1
          [3,3]((18,77,151),(11,47,92),(8,34,67)); lvl=6; h,r-ind=1,1
          [3,3]((3,13,25),(4,17,33),(11,47,92)); lvl=6; h,r-ind=1,1
          [3,3]((18,77,151),(3,13,25),(11,47,92)); lvl=6; h,r-ind=1,1
        [4,3]((2,9,17),(3,13,25),(7,30,59),(18,77,151)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,13,25),(18,77,151),(10,43,84)); lvl=6; h,r-ind=1,1
          [3,3]((7,30,59),(18,77,151),(10,43,84)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,17),(3,13,25),(10,43,84)); lvl=6; h,r-ind=1,1
          [3,3]((7,30,59),(2,9,17),(10,43,84)); lvl=6; h,r-ind=1,1
      [3,3]((2,9,16),(4,17,33),(2,9,17)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[5,3]((0,1,0),(2,6,9),(2,8,11),(1,5,6),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,5),(1,5,6),(0,1,0)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,3),(2,7,9),(1,4,5),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,9),(3,11,13),(1,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,4),(3,11,12),(3,11,13),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,12),(3,11,13),(4,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(3,11,13),(4,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(3,11,12),(4,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,4),(4,15,17)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(1,4,4),(3,11,12)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(3,11,12),(2,7,9),(3,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,8),(3,11,13),(3,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,8),(3,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,9),(1,3,3),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,9),(2,7,8),(3,11,13)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,2),(1,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(0,1,0)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,2,3),(1,2,2),(1,3,3),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(3,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,3),(3,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,9),(1,3,3)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(1,3,4),(1,2,2),(3,8,9)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,6),(3,8,9),(1,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,6),(1,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(1,2,2),(3,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,6),(1,2,2)); lvl=4; h,r-ind=1,1
  [4,3]((2,6,9),(2,7,10),(1,2,3),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,10),(2,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((5,16,23),(1,3,4),(2,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(5,16,23),(2,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,9),(5,16,23),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,3,4),(3,9,13),(5,16,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(3,9,13),(5,16,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,6,9),(3,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(3,9,13)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,4,5),(1,5,6),(2,8,11)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,10),(2,7,9),(1,4,5),(2,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,15),(1,4,5),(2,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,10),(3,11,15),(2,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,15),(2,8,11),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,10),(3,11,15),(2,8,11)); lvl=3; h,r-ind=1,1
[5,3]((2,8,11),(1,5,7),(1,5,6),(1,4,7),(2,9,15)); lvl=1; h,r-ind=1,1
  [4,3]((2,9,14),(1,5,7),(4,19,26),(2,9,13)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((1,5,7),(3,14,20),(4,19,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,13),(3,14,20),(4,19,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,14),(2,9,13),(3,14,20)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,9,14),(1,5,7),(3,14,20)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(1,5,6),(4,19,26),(2,9,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,6),(4,19,26),(3,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,13),(4,19,26),(3,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,9,13),(3,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,5,6),(3,14,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,11),(1,4,6),(1,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,7),(1,4,6),(2,9,14),(2,9,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,14),(2,9,13),(3,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,9,13),(3,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(2,9,14),(3,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,4,7),(3,13,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,15),(2,9,14),(1,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,7),(2,9,15),(2,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(1,5,7),(4,19,26)); lvl=2; h,r-ind=1,1
  [4,3]((2,9,22),(0,1,0),(1,5,7),(2,9,15)); lvl=1; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,8),(1,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,15),(1,5,8),(1,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,8),(1,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,11),(0,1,0),(1,5,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((4,18,37),(2,9,15),(1,5,8),(1,5,9)); lvl=2; h,r-ind=1,1
      [4,3]((6,29,51),(2,9,17),(2,9,15),(1,5,8)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,5,8),(4,19,33),(2,9,15),(2,9,16)); lvl=4; h,r-ind=1,2
          [3,3]((2,9,15),(3,14,24),(2,9,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,33),(3,14,24),(2,9,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,8),(4,19,33),(3,14,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,8),(2,9,15),(3,14,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,17),(4,19,33),(2,9,16)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((2,9,17),(4,19,34),(4,19,33)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,5,8),(6,29,51),(4,19,34),(4,19,33)); lvl=4; h,r-ind=1,2
          [3,3]((4,19,34),(5,24,42),(6,29,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,8),(5,24,42),(6,29,51)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,33),(1,5,8),(5,24,42)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,33),(4,19,34),(5,24,42)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,9),(6,29,51),(1,5,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,9),(2,9,18),(6,29,51),(2,9,17)); lvl=3; h,r-ind=1,1
        [3,3]((3,14,26),(2,9,18),(2,9,17)); lvl=4; h,r-ind=1,1
        [4,3]((4,19,34),(8,38,69),(3,14,26),(2,9,17)); lvl=4; h,r-ind=1,1
          [3,3]((7,33,60),(3,14,26),(8,38,69)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,34),(7,33,60),(8,38,69)); lvl=5; h,r-ind=1,1
          [3,3]((7,33,60),(2,9,17),(3,14,26)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,34),(7,33,60),(2,9,17)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,9),(6,29,51),(4,19,34),(8,38,69)); lvl=4; h,r-ind=1,1
          [3,3]((5,24,43),(6,29,51),(4,19,34)); lvl=5; h,r-ind=1,1
          [3,3]((8,38,69),(5,24,43),(4,19,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(8,38,69),(5,24,43)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(5,24,43),(6,29,51)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(3,14,26),(2,9,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(8,38,69),(3,14,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(4,18,37),(2,9,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,11),(2,9,22),(4,18,37),(1,5,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,9),(4,18,37),(2,9,19)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,9),(1,5,10),(2,9,20),(2,9,19)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,10),(2,9,20),(3,14,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,19),(2,9,20),(3,14,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(1,5,10),(3,14,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,19),(1,5,9),(3,14,29)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,11),(1,5,10),(2,9,22),(2,9,20)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,10),(4,19,42),(2,9,20),(2,9,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,21),(3,14,31),(2,9,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(3,14,31),(2,9,20)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,42),(1,5,10),(3,14,31)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,42),(2,9,21),(3,14,31)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,11),(4,19,42),(2,9,22),(2,9,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,22),(3,14,32),(2,9,21)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,42),(3,14,32),(2,9,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(2,9,22),(3,14,32)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,42),(1,5,11),(3,14,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,11),(1,5,10),(4,19,42)); lvl=4; h,r-ind=1,1
  [3,3]((2,9,23),(2,9,22),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,5,7),(1,5,6)); lvl=1; h,r-ind=1,1
```

23.32 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,10,23)); lvl=0; h,r-ind=23,529
  [5,3]((1,5,7),(1,2,4),(2,7,14),(1,2,3),(1,5,6)); lvl=1; h,r-ind=3,1
    [4,3]((1,4,6),(3,11,18),(1,4,7),(1,5,7)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((2,8,13),(1,4,7),(3,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,8,13),(3,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,5,7),(2,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,8,13),(1,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,6),(1,5,7)); lvl=2; h,r-ind=1,1
    [5,3]((1,3,6),(3,10,17),(3,11,18),(4,14,23),(1,4,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,12),(4,14,23),(3,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,12),(3,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,12),(4,14,23),(3,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(2,7,12),(3,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,7),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(2,7,14),(1,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(1,3,5),(1,3,6),(3,10,17)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(3,10,17),(2,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(3,10,17),(2,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(2,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,2,4),(2,6,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(2,7,11),(3,11,18),(4,14,23)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,11),(4,14,23),(5,18,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,18),(4,14,23),(5,18,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(3,11,18),(5,18,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,11),(5,18,29)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,6),(2,7,9),(1,4,6),(2,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,16),(2,7,11),(2,7,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,5),(5,19,27),(3,11,16),(2,7,10)); lvl=3; h,r-ind=1,1
        [3,3]((4,15,21),(5,19,27),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(4,15,21),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,10),(4,15,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(4,15,21),(5,19,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,9),(2,7,10)); lvl=3; h,r-ind=1,1
      [4,3]((5,19,27),(1,4,6),(3,11,16),(2,7,11)); lvl=3; h,r-ind=1,1
        [3,3]((4,15,22),(1,4,6),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,22),(3,11,16),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((5,19,27),(4,15,22),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,19,27),(4,15,22),(1,4,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,6),(1,4,5),(5,19,27),(1,4,6)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,8,11),(1,4,5),(5,19,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(2,8,11),(5,19,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,8,11),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(1,5,6),(2,8,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,5),(3,10,17),(2,7,11),(4,14,23)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,11),(4,14,23),(5,17,28)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,17),(4,14,23),(5,17,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(3,10,17),(5,17,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,11),(5,17,28)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(2,7,9),(1,3,5),(2,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,15),(2,7,11),(2,7,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(5,16,24),(3,10,15),(2,7,10)); lvl=3; h,r-ind=1,1
        [3,3]((4,13,19),(3,10,15),(5,16,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(4,13,19),(5,16,24)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,19),(2,7,10),(3,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(4,13,19),(2,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(2,7,10)); lvl=3; h,r-ind=1,1
      [4,3]((5,16,24),(1,3,5),(3,10,15),(2,7,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,5),(2,7,11),(4,13,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,15),(2,7,11),(4,13,20)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,24),(3,10,15),(4,13,20)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,24),(1,3,5),(4,13,20)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(1,3,4),(5,16,24),(1,3,5)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((1,3,4),(5,16,24),(2,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(5,16,24),(2,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(2,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(1,2,3),(2,6,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(1,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(1,2,3),(1,5,6)); lvl=1; h,r-ind=3,3
    [3,3]((1,1,1),(1,0,0),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,9),(1,1,1),(1,3,3),(1,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,4),(1,2,3),(1,2,2),(1,1,1)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,3),(1,1,1),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,1,1),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,2,3),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,4),(2,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(1,3,3)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,5,6),(2,7,9),(1,3,3)); lvl=2; h,r-ind=3,3
      [4,3]((1,3,3),(3,11,12),(1,4,5),(2,7,9)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,8),(3,11,12),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,9),(2,7,8),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,9),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(3,11,12)); lvl=4; h,r-ind=1,1
```

```
      [4,3]((3,11,12),(1,4,4),(2,9,9),(1,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((2,8,9),(1,4,4),(2,9,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,8,9),(2,9,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,12),(2,8,9),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(3,11,12),(2,8,9)); lvl=4; h,r-ind=1,1
      [4,3]((0,1,0),(1,5,6),(2,9,9),(1,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,5),(1,5,6),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,9),(1,5,5),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,5,5),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,11,12),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,3,3)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
[3,3]((1,5,7),(0,1,0),(1,5,6)); lvl=1; h,r-ind=1,1
[3,3]((1,5,11),(1,5,7),(0,1,0)); lvl=1; h,r-ind=4,4; optimized-h
[3,3]((2,10,23),(1,5,11),(0,1,0)); lvl=1; h,r-ind=1,1
[4,3]((1,5,11),(1,5,7),(2,9,20),(2,7,14)); lvl=1; h,r-ind=2,1
  [3,3]((2,7,14),(1,4,8),(1,4,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,9),(1,5,7),(1,4,8),(1,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,8),(3,13,23),(1,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,8),(1,5,7),(3,13,23),(1,4,7)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,7),(1,4,7),(2,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,23),(1,4,7),(2,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(3,13,23),(2,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(1,5,7),(2,9,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,9),(1,5,8),(1,4,8),(3,13,23)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,16),(1,5,8),(3,13,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(2,9,16),(3,13,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,9,16),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,9),(2,9,16)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,11),(1,5,9),(1,4,8)); lvl=2; h,r-ind=2,2; alert-r-inc; optimized-h
  [3,3]((2,7,14),(2,8,17),(1,4,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,20),(2,8,17),(1,4,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,11),(2,9,20),(1,4,8)); lvl=2; h,r-ind=1,1
[3,3]((2,10,23),(2,9,20),(1,4,9)); lvl=1; h,r-ind=1,1
[3,3]((2,10,23),(1,5,11),(2,9,20)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
[5,3]((2,9,20),(1,4,9),(1,2,4),(2,5,11),(2,7,14)); lvl=1; h,r-ind=1,1
  [3,3]((2,6,13),(2,5,11),(1,4,9)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,15),(7,27,59),(2,6,13),(1,4,9)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((1,4,9),(3,11,24),(7,27,59)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,15),(3,11,24),(7,27,59)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,13),(2,7,15),(3,11,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,13),(1,4,9),(3,11,24)); lvl=3; h,r-ind=1,1
  [4,3]((2,9,20),(7,27,59),(4,16,35),(1,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,16,35),(5,20,44),(7,27,59)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(5,20,44),(7,27,59)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,20),(4,16,35),(5,20,44)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(2,9,20),(5,20,44)); lvl=3; h,r-ind=1,1
  [5,3]((2,8,17),(2,7,15),(7,27,59),(4,16,35),(1,3,6)); lvl=2; h,r-ind=1,1
    [5,3]((1,3,6),(5,19,41),(8,29,62),(2,8,17),(3,12,26)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,32),(3,12,26),(2,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(4,15,32),(2,8,17)); lvl=4; h,r-ind=1,1
      [4,3]((4,15,32),(10,37,79),(9,34,73),(3,12,26)); lvl=4; h,r-ind=1,1
        [3,3]((10,37,79),(9,34,73),(13,49,105)); lvl=5; h,r-ind=1,1
        [3,3]((3,12,26),(9,34,73),(13,49,105)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,32),(3,12,26),(13,49,105)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,32),(10,37,79),(13,49,105)); lvl=5; h,r-ind=1,1
      [3,3]((9,34,73),(5,19,41),(3,12,26)); lvl=4; h,r-ind=1,1
      [4,3]((10,37,79),(6,22,47),(9,34,73),(5,19,41)); lvl=4; h,r-ind=1,1
        [3,3]((6,22,47),(5,19,41),(15,56,120)); lvl=5; h,r-ind=1,1
        [3,3]((9,34,73),(5,19,41),(15,56,120)); lvl=5; h,r-ind=1,1
        [3,3]((10,37,79),(6,22,47),(15,56,120)); lvl=5; h,r-ind=1,1
        [3,3]((9,34,73),(10,37,79),(15,56,120)); lvl=5; h,r-ind=1,1
      [3,3]((6,22,47),(5,19,41),(8,29,62)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(6,22,47),(8,29,62)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(4,15,32),(10,37,79)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(10,37,79),(6,22,47)); lvl=4; h,r-ind=1,1
    [4,3]((6,23,50),(5,19,41),(4,16,35),(3,12,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,26),(4,16,35),(9,35,76)); lvl=4; h,r-ind=1,1
      [3,3]((6,23,50),(4,16,35),(9,35,76)); lvl=4; h,r-ind=1,1
      [3,3]((5,19,41),(6,23,50),(9,35,76)); lvl=4; h,r-ind=1,1
      [3,3]((5,19,41),(3,12,26),(9,35,76)); lvl=4; h,r-ind=1,1
    [3,3]((6,23,50),(7,27,59),(4,16,35)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,15),(6,23,50),(7,27,59)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,15),(6,23,50),(5,19,41),(8,29,62)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((7,26,56),(6,23,50),(5,19,41)); lvl=4; h,r-ind=1,1
      [3,3]((8,29,62),(7,26,56),(5,19,41)); lvl=4; h,r-ind=1,1
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        [3,3]((2,7,15),(8,29,62),(7,26,56)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,15),(7,26,56),(6,23,50)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,15),(1,3,6),(8,29,62)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,17),(1,3,6),(2,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,20),(2,8,17),(4,16,35)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,6,13),(2,5,11),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,15),(2,6,13),(1,3,6),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,9,19),(1,2,4),(2,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,15),(3,9,19),(2,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(3,9,19),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,15),(1,3,6),(3,9,19)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(1,2,4),(2,4,9),(2,5,11)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,4),(1,1,2),(2,5,11),(5,10,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,2),(3,6,13),(5,10,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(3,6,13),(5,10,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,11),(3,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,1,2),(3,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(2,5,11),(5,10,22)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,4,9),(1,1,2),(5,10,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,9),(5,10,22),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,10,22),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,4,9),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,0,0),(3,5,11)); lvl=3; h,r-ind=1,1
  [4,3]((3,11,25),(1,4,9),(2,4,9),(2,5,11)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,18),(1,4,9),(2,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(3,8,18),(2,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,25),(3,8,18),(1,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(3,11,25),(3,8,18)); lvl=2; h,r-ind=1,1
  [4,3]((2,10,23),(1,0,0),(3,11,25),(2,4,9)); lvl=1; h,r-ind=1,2
    [3,3]((2,7,16),(1,0,0),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,16),(3,11,25),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,23),(2,7,16),(3,11,25)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,23),(2,7,16),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((2,10,23),(3,11,25),(1,4,9)); lvl=1; h,r-ind=1,1
```

23.33 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,11,23)); lvl=0; h,r-ind=23,529
  [5,3]((0,1,0),(1,6,6),(2,2,3),(2,10,11),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,5),(2,10,11),(1,6,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(1,5,5),(2,10,11),(2,6,7)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((1,5,5),(1,4,4),(2,10,11),(2,8,9)); lvl=3; h,r-ind=1,1
        [4,3]((1,4,4),(4,18,19),(2,8,9),(2,9,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,18,19),(2,9,10),(3,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,9),(2,9,10),(3,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(2,8,9),(3,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(4,18,19),(3,13,14)); lvl=5; h,r-ind=1,1
        [4,3]((2,10,11),(1,5,5),(4,18,19),(2,9,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,15),(1,5,5),(4,18,19)); lvl=5; h,r-ind=1,1
          [3,3]((3,14,15),(2,9,10),(4,18,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,11),(3,14,15),(2,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,11),(3,14,15),(1,5,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,5),(1,4,4),(4,18,19)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,7),(1,3,3),(1,4,4),(2,8,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,3),(1,4,4),(4,14,15)); lvl=4; h,r-ind=1,1
        [4,3]((2,8,9),(2,7,8),(1,4,4),(4,14,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,11,12),(2,7,8),(4,14,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(3,11,12),(4,14,15)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,9),(3,11,12),(2,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(2,8,9),(3,11,12)); lvl=5; h,r-ind=1,1
        [4,3]((2,6,7),(2,7,8),(1,3,3),(4,14,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,7,8),(4,14,15),(3,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(4,14,15),(3,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,7),(2,7,8),(3,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(2,6,7),(3,10,11)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,5,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,1,1),(1,3,3),(2,6,7),(2,2,3)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((1,3,3),(1,2,2),(2,6,7),(2,4,5)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,2),(4,10,11),(2,4,5),(2,5,6)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,7,8),(2,5,6),(4,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(3,7,8),(4,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,5),(3,7,8),(2,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(2,4,5),(3,7,8)); lvl=5; h,r-ind=1,1
        [4,3]((2,6,7),(1,3,3),(4,10,11),(2,5,6)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,8,9),(1,3,3),(4,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,9),(2,5,6),(4,10,11)); lvl=5; h,r-ind=1,1
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```
          [3,3]((2,6,7),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,7),(3,8,9),(1,3,3)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(4,10,11)); lvl=4; h,r-ind=1,1
      [4,3]((2,2,3),(1,1,1),(1,2,2),(2,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(4,6,7)); lvl=4; h,r-ind=1,1
        [4,3]((2,4,5),(2,3,4),(1,2,2),(4,6,7)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,6),(2,3,4),(4,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(3,5,6),(4,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=5; h,r-ind=1,1
        [4,3]((2,2,3),(2,3,4),(1,1,1),(4,6,7)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,5),(2,3,4),(4,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,5),(1,1,1),(4,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=5; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,3,3)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
[3,3]((2,11,23),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
[5,3]((1,3,6),(1,1,2),(2,2,3),(1,5,6),(2,10,11)); lvl=1; h,r-ind=2,1
    [4,3]((1,2,3),(1,3,4),(2,6,7),(2,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,4),(6,14,19),(2,6,7),(2,4,5)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,3,4),(4,10,13),(4,9,12),(6,14,19)); lvl=4; h,r-ind=1,2
          [3,3]((4,9,12),(5,12,16),(4,10,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(5,12,16),(4,10,13)); lvl=5; h,r-ind=1,1
          [3,3]((6,14,19),(4,9,12),(5,12,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(6,14,19),(5,12,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(4,10,13),(4,9,12)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((2,5,6),(2,4,5),(4,10,13)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,3,4),(2,6,7),(2,5,6),(4,10,13)); lvl=4; h,r-ind=1,2
          [3,3]((3,8,10),(2,6,7),(2,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((4,10,13),(3,8,10),(2,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(4,10,13),(3,8,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=5; h,r-ind=1,1
      [4,3]((2,2,3),(1,2,3),(6,14,19),(2,4,5)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((4,8,11),(1,2,3),(4,9,12),(6,14,19)); lvl=4; h,r-ind=1,2
          [3,3]((1,2,3),(6,14,19),(5,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,12),(6,14,19),(5,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,8,11),(4,9,12),(5,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,8,11),(1,2,3),(5,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(4,8,11),(4,9,12)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((2,4,5),(2,3,4),(4,8,11)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((2,2,3),(2,3,4),(4,8,11),(1,2,3)); lvl=4; h,r-ind=1,2
          [3,3]((2,3,4),(3,5,7),(4,8,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(3,5,7),(4,8,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(1,2,3),(3,5,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(2,3,4),(3,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(6,14,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(1,2,3),(2,5,8),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,7),(2,5,8),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,4,7),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,1,2),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,4,7),(2,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(1,4,5),(2,10,11),(2,6,7)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,5),(6,22,27),(2,10,11),(2,8,9)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [3,3]((4,16,19),(4,15,18),(2,8,9)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((2,9,10),(4,16,19),(2,8,9)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,4,5),(2,10,11),(2,9,10),(4,16,19)); lvl=4; h,r-ind=1,2
          [3,3]((3,13,15),(2,9,10),(2,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(3,13,15),(2,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((4,16,19),(1,4,5),(3,13,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,16,19),(3,13,15),(2,9,10)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,5),(4,16,19),(6,22,27),(4,15,18)); lvl=4; h,r-ind=1,2
          [3,3]((5,19,23),(4,16,19),(4,15,18)); lvl=5; h,r-ind=1,1
          [3,3]((6,22,27),(5,19,23),(4,15,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(6,22,27),(5,19,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(5,19,23),(4,16,19)); lvl=5; h,r-ind=1,1
      [4,3]((2,6,7),(1,3,4),(6,22,27),(2,8,9)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,3,4),(4,15,18),(6,22,27),(4,14,17)); lvl=4; h,r-ind=1,2
          [3,3]((4,15,18),(6,22,27),(5,18,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(6,22,27),(5,18,22)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,17),(4,15,18),(5,18,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(4,14,17),(5,18,22)); lvl=5; h,r-ind=1,1
        [4,3]((2,7,8),(2,6,7),(1,3,4),(4,14,17)); lvl=4; h,r-ind=1,2
          [3,3]((1,3,4),(3,10,12),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(3,10,12),(2,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,17),(1,3,4),(3,10,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(4,14,17),(3,10,12)); lvl=5; h,r-ind=1,1
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      [3,3]((2,8,9),(4,15,18),(4,14,17)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((2,8,9),(2,7,8),(4,14,17)); lvl=4; h,r-ind=2,2; optimized-h
    [3,3]((1,3,4),(1,4,5),(6,22,27)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,5),(1,5,6),(2,10,11)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,5),(1,4,6),(2,7,10),(1,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,10),(2,8,11),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(2,8,11),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,10),(2,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,5),(2,8,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,4),(2,6,9),(1,4,5),(2,7,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(2,7,10),(3,10,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,10),(3,10,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,5),(3,10,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,9),(3,10,14)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,6),(2,6,9),(1,4,6),(2,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,9),(1,3,5),(2,7,10),(4,14,21)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,10),(4,14,21),(3,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(4,14,21),(3,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(1,3,5),(3,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(2,7,10),(3,10,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,10),(4,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,3,5),(4,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,4,6),(1,3,5)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,3),(1,3,4),(2,5,8),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,9),(3,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(2,6,9),(3,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,4),(3,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(1,2,3),(3,8,12)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,4),(1,3,6),(2,5,8),(2,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,8),(1,3,5),(2,6,9),(4,10,17)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,6,9),(3,8,13),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,17),(3,8,13),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(4,10,17),(3,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(2,6,9),(3,8,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,8),(4,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,5),(4,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,5),(1,3,6)); lvl=3; h,r-ind=1,1
[4,3]((1,6,6),(2,11,13),(1,5,6),(2,10,11)); lvl=1; h,r-ind=1,1
  [3,3]((2,11,12),(2,11,13),(1,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((2,10,11),(2,11,12),(1,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,6),(2,10,11),(2,11,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,6),(2,11,12),(2,11,13)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(2,11,22),(1,6,6),(2,11,13)); lvl=1; h,r-ind=1,1
  [4,3]((1,6,7),(2,12,17),(4,22,35),(2,11,13)); lvl=2; h,r-ind=3,1; alert-h-inc
    [3,3]((2,11,17),(4,22,35),(3,17,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(2,11,17),(3,17,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(2,12,17),(3,17,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(2,11,17),(4,22,31)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((1,6,7),(2,11,13),(1,6,8),(4,22,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(4,22,31),(2,11,15)); lvl=4; h,r-ind=1,1
      [4,3]((5,29,37),(1,6,8),(4,22,29),(2,11,15)); lvl=4; h,r-ind=1,1
        [4,3]((3,17,22),(6,34,45),(2,11,15),(4,22,29)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,15),(6,34,45),(5,28,37)); lvl=6; h,r-ind=1,1
          [3,3]((3,17,22),(6,34,45),(5,28,37)); lvl=6; h,r-ind=1,1
          [3,3]((4,22,29),(2,11,15),(5,28,37)); lvl=6; h,r-ind=1,1
          [3,3]((3,17,22),(4,22,29),(5,28,37)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,8),(6,34,45),(2,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((3,17,22),(1,6,8),(6,34,45)); lvl=5; h,r-ind=1,1
        [3,3]((5,29,37),(3,17,22),(1,6,8)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(5,29,37),(1,6,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,7),(5,29,37),(2,11,13),(4,22,29)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,11,14),(3,17,22),(7,40,50)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,6,7),(5,29,37),(3,17,22),(7,40,50)); lvl=5; h,r-ind=1,3
          [3,3]((4,23,29),(5,29,37),(3,17,22)); lvl=6; h,r-ind=1,1
          [3,3]((7,40,50),(4,23,29),(3,17,22)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,7),(7,40,50),(4,23,29)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,7),(4,23,29),(5,29,37)); lvl=6; h,r-ind=1,1
        [4,3]((1,6,7),(2,11,13),(2,11,14),(7,40,50)); lvl=5; h,r-ind=1,3
          [3,3]((2,11,14),(2,11,13),(3,17,21)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,7),(2,11,13),(3,17,21)); lvl=6; h,r-ind=1,1
          [3,3]((7,40,50),(2,11,14),(3,17,21)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,7),(7,40,50),(3,17,21)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,14),(4,22,29),(3,17,22)); lvl=5; h,r-ind=1,1
  [3,3]((1,6,7),(1,6,6),(2,11,13)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,7),(1,6,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,7),(2,12,17)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,6,11),(2,11,22),(2,12,17),(4,22,35)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,9),(2,12,19),(2,11,18),(4,22,39)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,29),(4,22,39),(2,11,19)); lvl=4; h,r-ind=1,1
      [4,3]((7,40,66),(4,23,38),(3,17,29),(2,11,19)); lvl=4; h,r-ind=1,1
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          [3,3]((4,23,38),(3,17,29),(6,34,57)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,19),(3,17,29),(6,34,57)); lvl=5; h,r-ind=1,1
          [3,3]((7,40,66),(4,23,38),(6,34,57)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,19),(7,40,66),(6,34,57)); lvl=5; h,r-ind=1,1
        [4,3]((1,6,9),(7,40,66),(2,11,18),(2,11,19)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((3,17,28),(2,11,18),(2,11,19)); lvl=5; h,r-ind=1,1
          [3,3]((7,40,66),(3,17,28),(2,11,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,9),(7,40,66),(3,17,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,9),(3,17,28),(2,11,18)); lvl=5; h,r-ind=1,1
        [4,3]((1,6,9),(2,12,19),(7,40,66),(4,23,38)); lvl=4; h,r-ind=1,1
          [3,3]((2,12,19),(5,29,47),(4,23,38)); lvl=5; h,r-ind=1,1
          [3,3]((7,40,66),(5,29,47),(4,23,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,9),(7,40,66),(5,29,47)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,9),(2,12,19),(5,29,47)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,19),(4,23,38),(3,17,29)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,11),(2,12,19),(2,11,22),(4,22,39)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,10),(2,11,20),(4,22,41)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,10),(1,6,11),(2,11,22),(4,22,41)); lvl=4; h,r-ind=1,1
          [4,3]((4,23,42),(1,6,11),(2,11,21),(2,11,22)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,11,21),(3,17,32),(2,11,22)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,11),(3,17,32),(2,11,22)); lvl=6; h,r-ind=1,1
            [3,3]((4,23,42),(2,11,21),(3,17,32)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,11),(4,23,42),(3,17,32)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,10),(4,23,42),(2,11,21)); lvl=5; h,r-ind=1,1
          [3,3]((4,22,41),(1,6,10),(2,11,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,10),(4,23,42),(1,6,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(3,17,29),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,29),(4,22,39),(2,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(2,12,19),(3,17,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(3,17,26),(2,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,26),(4,22,35),(2,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,17),(1,6,9),(3,17,26)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,11),(2,12,17)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
[3,3]((2,11,23),(0,1,0),(2,11,22)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((1,3,6),(2,11,22),(2,11,13),(1,5,6)); lvl=1; h,r-ind=1,1
  [4,3]((2,11,13),(1,5,8),(4,22,35),(1,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,8),(4,22,35),(2,11,17)); lvl=3; h,r-ind=1,1
    [4,3]((4,22,31),(7,36,53),(1,5,8),(2,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((7,37,55),(4,21,31),(1,5,8)); lvl=4; h,r-ind=1,1
      [4,3]((7,36,53),(8,42,61),(4,21,31),(1,5,8)); lvl=4; h,r-ind=1,1
        [4,3]((5,26,38),(10,52,77),(4,21,31),(8,42,61)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((9,47,69),(10,52,77),(4,21,31)); lvl=6; h,r-ind=1,1
          [3,3]((8,42,61),(9,47,69),(4,21,31)); lvl=6; h,r-ind=1,1
          [3,3]((5,26,38),(8,42,61),(9,47,69)); lvl=6; h,r-ind=1,1
          [3,3]((5,26,38),(9,47,69),(10,52,77)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,8),(5,26,38),(10,52,77)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(7,36,53),(5,26,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(10,52,77),(4,21,31)); lvl=5; h,r-ind=1,1
      [4,3]((2,11,17),(2,11,16),(7,37,55),(1,5,8)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,11,16),(3,16,24),(7,37,55)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(3,16,24),(7,37,55)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,17),(1,5,8),(3,16,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,17),(2,11,16),(3,16,24)); lvl=5; h,r-ind=1,1
      [4,3]((2,11,16),(3,16,23),(7,37,55),(4,21,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,23),(6,32,47),(4,21,31)); lvl=5; h,r-ind=1,1
        [3,3]((7,37,55),(6,32,47),(4,21,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,16),(7,37,55),(6,32,47)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,16),(3,16,23),(6,32,47)); lvl=5; h,r-ind=1,1
      [3,3]((3,16,23),(8,42,61),(4,21,31)); lvl=4; h,r-ind=1,1
      [3,3]((4,22,31),(2,11,16),(3,16,23)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,13),(4,22,31),(1,5,7),(7,36,53)); lvl=3; h,r-ind=5,5; alert-h-inc; alert-r-inc
      [5,3]((1,5,7),(7,36,53),(4,21,30),(8,42,61),(9,47,66)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,7),(11,57,82),(5,26,38),(7,36,53)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((11,57,82),(6,31,45),(5,26,38)); lvl=6; h,r-ind=1,1
          [3,3]((7,36,53),(6,31,45),(5,26,38)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,7),(7,36,53),(6,31,45)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,7),(11,57,82),(6,31,45)); lvl=6; h,r-ind=1,1
        [5,3]((15,78,112),(11,57,82),(5,26,38),(9,47,68),(14,73,105)); lvl=5; h,r-ind=1,1
          [3,3]((5,26,38),(10,52,75),(11,57,82)); lvl=6; h,r-ind=1,1
          [3,3]((15,78,112),(10,52,75),(11,57,82)); lvl=6; h,r-ind=1,1
          [3,3]((15,78,112),(14,73,105),(10,52,75)); lvl=6; h,r-ind=1,1
          [3,3]((5,26,38),(10,52,75),(9,47,68)); lvl=6; h,r-ind=1,1
          [3,3]((14,73,105),(10,52,75),(9,47,68)); lvl=6; h,r-ind=1,1
        [4,3]((1,5,7),(15,78,112),(11,57,82),(5,26,37)); lvl=5; h,r-ind=1,1
          [3,3]((11,57,82),(15,78,112),(16,83,119)); lvl=6; h,r-ind=1,1
          [3,3]((5,26,37),(15,78,112),(16,83,119)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,7),(5,26,37),(16,83,119)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,7),(11,57,82),(16,83,119)); lvl=6; h,r-ind=1,1
        [3,3]((8,42,61),(5,26,38),(9,47,68)); lvl=5; h,r-ind=1,1
        [4,3]((8,42,61),(4,21,30),(9,47,68),(14,73,105)); lvl=5; h,r-ind=1,1
```

```
      [3,3]((4,21,30),(13,68,98),(14,73,105)); lvl=6; h,r-ind=1,1
      [3,3]((9,47,68),(13,68,98),(14,73,105)); lvl=6; h,r-ind=1,1
      [3,3]((9,47,68),(8,42,61),(13,68,98)); lvl=6; h,r-ind=1,1
      [3,3]((8,42,61),(4,21,30),(13,68,98)); lvl=6; h,r-ind=1,1
    [4,3]((15,78,112),(5,26,37),(4,21,30),(14,73,105)); lvl=5; h,r-ind=1,1
      [3,3]((19,99,142),(4,21,30),(5,26,37)); lvl=6; h,r-ind=1,1
      [3,3]((15,78,112),(19,99,142),(5,26,37)); lvl=6; h,r-ind=1,1
      [3,3]((14,73,105),(15,78,112),(19,99,142)); lvl=6; h,r-ind=1,1
      [3,3]((14,73,105),(19,99,142),(4,21,30)); lvl=6; h,r-ind=1,1
    [3,3]((9,47,66),(5,26,37),(4,21,30)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,7),(9,47,66),(5,26,37)); lvl=5; h,r-ind=1,1
  [5,3]((2,11,13),(4,22,29),(3,16,22),(1,5,7),(9,47,66)); lvl=4; h,r-ind=1,1
    [3,3]((4,21,29),(3,16,22),(9,47,66)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,7),(4,21,29),(9,47,66)); lvl=5; h,r-ind=1,1
    [4,3]((9,48,65),(10,53,72),(4,21,29),(3,16,22)); lvl=5; h,r-ind=1,1
      [3,3]((10,53,72),(4,21,29),(13,69,94)); lvl=6; h,r-ind=1,1
      [3,3]((3,16,22),(4,21,29),(13,69,94)); lvl=6; h,r-ind=1,1
      [3,3]((9,48,65),(10,53,72),(13,69,94)); lvl=6; h,r-ind=1,1
      [3,3]((3,16,22),(9,48,65),(13,69,94)); lvl=6; h,r-ind=1,1
    [4,3]((4,22,29),(9,48,65),(5,27,36),(3,16,22)); lvl=5; h,r-ind=1,1
      [3,3]((8,43,58),(5,27,36),(9,48,65)); lvl=6; h,r-ind=1,1
      [3,3]((3,16,22),(8,43,58),(9,48,65)); lvl=6; h,r-ind=1,1
      [3,3]((4,22,29),(3,16,22),(8,43,58)); lvl=6; h,r-ind=1,1
      [3,3]((4,22,29),(8,43,58),(5,27,36)); lvl=6; h,r-ind=1,1
    [3,3]((4,22,29),(5,27,36),(2,11,14)); lvl=5; h,r-ind=1,1
    [4,3]((1,5,7),(10,53,72),(7,37,50),(4,21,29)); lvl=5; h,r-ind=1,1
      [3,3]((7,37,50),(10,53,72),(11,58,79)); lvl=6; h,r-ind=1,1
      [3,3]((4,21,29),(10,53,72),(11,58,79)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,7),(4,21,29),(11,58,79)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,7),(7,37,50),(11,58,79)); lvl=6; h,r-ind=1,1
    [4,3]((2,11,13),(2,11,14),(1,5,7),(7,37,50)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((3,16,21),(2,11,14),(7,37,50)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,7),(3,16,21),(7,37,50)); lvl=6; h,r-ind=1,1
      [3,3]((2,11,13),(1,5,7),(3,16,21)); lvl=6; h,r-ind=1,1
      [3,3]((2,11,13),(3,16,21),(2,11,14)); lvl=6; h,r-ind=1,1
    [5,3]((9,48,65),(5,27,36),(2,11,14),(10,53,72),(7,37,50)); lvl=5; h,r-ind=1,1
      [3,3]((6,32,43),(2,11,14),(7,37,50)); lvl=6; h,r-ind=1,1
      [3,3]((6,32,43),(10,53,72),(7,37,50)); lvl=6; h,r-ind=1,1
      [3,3]((9,48,65),(6,32,43),(10,53,72)); lvl=6; h,r-ind=1,1
      [3,3]((6,32,43),(5,27,36),(2,11,14)); lvl=6; h,r-ind=1,1
      [3,3]((9,48,65),(6,32,43),(5,27,36)); lvl=6; h,r-ind=1,1
  [5,3]((2,11,15),(3,16,22),(3,16,23),(4,21,30),(9,47,66)); lvl=4; h,r-ind=1,1
    [3,3]((3,16,23),(14,74,105),(4,21,30)); lvl=5; h,r-ind=1,1
    [4,3]((8,42,59),(7,37,52),(14,74,105),(4,21,30)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((11,58,82),(7,37,52),(14,74,105)); lvl=6; h,r-ind=1,1
      [3,3]((4,21,30),(11,58,82),(14,74,105)); lvl=6; h,r-ind=1,1
      [3,3]((8,42,59),(11,58,82),(7,37,52)); lvl=6; h,r-ind=1,1
      [3,3]((4,21,30),(8,42,59),(11,58,82)); lvl=6; h,r-ind=1,1
    [3,3]((9,47,66),(8,42,59),(4,21,30)); lvl=5; h,r-ind=1,1
    [3,3]((3,16,22),(9,47,66),(8,42,59)); lvl=5; h,r-ind=1,1
    [5,3]((2,11,15),(7,37,52),(12,64,89),(3,16,23),(14,74,105)); lvl=5; h,r-ind=1,1
      [4,3]((13,69,97),(7,37,52),(10,53,75),(16,85,120)); lvl=6; h,r-ind=1,1
        [3,3]((7,37,52),(10,53,75),(23,122,172)); lvl=7; h,r-ind=1,1
        [3,3]((16,85,120),(10,53,75),(23,122,172)); lvl=7; h,r-ind=1,1
        [3,3]((13,69,97),(7,37,52),(23,122,172)); lvl=7; h,r-ind=1,1
        [3,3]((16,85,120),(13,69,97),(23,122,172)); lvl=7; h,r-ind=1,1
      [3,3]((3,16,23),(10,53,75),(16,85,120)); lvl=6; h,r-ind=1,1
      [3,3]((6,32,45),(3,16,23),(16,85,120)); lvl=6; h,r-ind=1,1
      [3,3]((2,11,15),(6,32,45),(3,16,23)); lvl=6; h,r-ind=1,1
      [4,3]((6,32,45),(13,69,97),(15,80,112),(16,85,120)); lvl=6; h,r-ind=1,1
        [3,3]((13,69,97),(19,101,142),(15,80,112)); lvl=7; h,r-ind=1,1
        [3,3]((6,32,45),(19,101,142),(15,80,112)); lvl=7; h,r-ind=1,1
        [3,3]((6,32,45),(16,85,120),(19,101,142)); lvl=7; h,r-ind=1,1
        [3,3]((16,85,120),(13,69,97),(19,101,142)); lvl=7; h,r-ind=1,1
      [3,3]((2,11,15),(6,32,45),(15,80,112)); lvl=6; h,r-ind=1,1
      [4,3]((13,69,97),(15,80,112),(9,48,67),(7,37,52)); lvl=6; h,r-ind=1,1
        [3,3]((15,80,112),(9,48,67),(22,117,164)); lvl=7; h,r-ind=1,1
        [3,3]((7,37,52),(9,48,67),(22,117,164)); lvl=7; h,r-ind=1,1
        [3,3]((13,69,97),(15,80,112),(22,117,164)); lvl=7; h,r-ind=1,1
        [3,3]((7,37,52),(13,69,97),(22,117,164)); lvl=7; h,r-ind=1,1
      [3,3]((12,64,89),(9,48,67),(7,37,52)); lvl=6; h,r-ind=1,1
      [3,3]((2,11,15),(12,64,89),(9,48,67)); lvl=6; h,r-ind=1,1
      [3,3]((2,11,15),(15,80,112),(9,48,67)); lvl=6; h,r-ind=1,1
      [3,3]((14,74,105),(7,37,52),(10,53,75)); lvl=6; h,r-ind=1,1
      [3,3]((3,16,23),(14,74,105),(10,53,75)); lvl=6; h,r-ind=1,1
    [4,3]((3,16,22),(8,42,59),(7,37,52),(12,64,89)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((10,53,74),(7,37,52),(8,42,59)); lvl=6; h,r-ind=1,1
      [3,3]((3,16,22),(10,53,74),(8,42,59)); lvl=6; h,r-ind=1,1
      [3,3]((12,64,89),(10,53,74),(7,37,52)); lvl=6; h,r-ind=1,1
      [3,3]((3,16,22),(12,64,89),(10,53,74)); lvl=6; h,r-ind=1,1
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        [3,3]((3,16,22),(2,11,15),(12,64,89)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,15),(4,22,31),(3,16,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,15),(4,22,29),(3,16,22)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,23),(4,21,30),(8,42,61)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(7,36,53),(1,5,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,6),(2,11,13),(1,5,7)); lvl=2; h,r-ind=1,1
  [4,3]((2,9,14),(2,9,15),(1,5,8),(1,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,22),(1,5,8),(2,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,14),(3,14,22),(2,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,14),(3,14,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(3,14,22),(1,5,8)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,6),(1,4,6),(2,9,14),(1,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,13),(1,4,6),(2,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,13),(1,5,7),(2,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,13),(1,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,13),(1,4,6)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,6),(1,4,6),(2,9,14),(2,9,15)); lvl=2; h,r-ind=1,1
    [3,3]((4,17,27),(2,9,14),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(4,17,27),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(1,3,6),(1,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,7),(4,17,27),(2,9,15),(2,9,14)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,14),(2,9,15),(3,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,9,15),(3,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,27),(2,9,14),(3,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(4,17,27),(3,13,21)); lvl=4; h,r-ind=1,1
  [4,3]((2,11,22),(1,5,10),(1,5,8),(4,22,35)); lvl=2; h,r-ind=1,1
    [4,3]((4,22,39),(2,11,18),(1,5,9),(1,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,9),(1,5,8),(4,21,36)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,19),(2,11,18),(1,5,8),(4,21,36)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,8),(2,11,18),(3,16,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,19),(2,11,18),(3,16,27)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,36),(1,5,8),(3,16,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,19),(4,21,36),(3,16,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,19),(1,5,9),(4,21,36)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,19),(4,22,39),(1,5,9)); lvl=4; h,r-ind=1,1
    [3,3]((4,22,35),(2,11,18),(1,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((4,22,39),(2,11,22),(1,5,9),(1,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,9),(5,26,49),(1,5,10)); lvl=4; h,r-ind=1,1
      [4,3]((4,22,41),(2,11,22),(5,26,49),(1,5,10)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,11,21),(7,37,71),(1,5,10),(2,11,22)); lvl=5; h,r-ind=1,3
          [3,3]((7,37,71),(3,16,31),(1,5,10)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,22),(3,16,31),(1,5,10)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,21),(7,37,71),(3,16,31)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,22),(2,11,21),(3,16,31)); lvl=6; h,r-ind=1,1
        [4,3]((7,37,71),(3,16,30),(5,26,49),(1,5,10)); lvl=5; h,r-ind=1,3
          [3,3]((4,21,40),(3,16,30),(5,26,49)); lvl=6; h,r-ind=1,1
          [3,3]((4,21,40),(1,5,10),(5,26,49)); lvl=6; h,r-ind=1,1
          [3,3]((7,37,71),(4,21,40),(1,5,10)); lvl=6; h,r-ind=1,1
          [3,3]((7,37,71),(4,21,40),(3,16,30)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,21),(7,37,71),(3,16,30)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,11,21),(4,22,41),(3,16,30)); lvl=5; h,r-ind=1,1
      [4,3]((2,11,20),(4,22,41),(1,5,9),(5,26,49)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(5,26,49),(3,16,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(6,32,59),(3,16,30)); lvl=5; h,r-ind=1,1
        [4,3]((2,11,20),(4,22,41),(6,32,59),(3,16,30)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,27,50),(6,32,59),(3,16,30)); lvl=6; h,r-ind=1,1
          [3,3]((4,22,41),(5,27,50),(3,16,30)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,20),(4,22,41),(5,27,50)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,20),(5,27,50),(6,32,59)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,9),(2,11,20),(6,32,59)); lvl=5; h,r-ind=1,1
      [3,3]((4,22,39),(2,11,20),(1,5,9)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,10),(2,9,18),(2,9,15),(1,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,9),(1,5,8),(4,18,33),(2,9,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,8),(2,9,16),(2,9,15),(4,19,33)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,15),(3,14,24),(2,9,16)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,33),(3,14,24),(2,9,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(4,19,33),(3,14,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(2,9,15),(3,14,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,9),(1,5,8),(4,19,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,9,16),(4,19,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,9,16),(4,18,33)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,10),(1,5,9),(2,9,18),(4,18,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,9),(2,9,17),(4,18,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(4,19,36),(2,9,17)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,10),(4,19,36),(2,9,18),(2,9,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,27),(2,9,18),(2,9,17)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,36),(3,14,27),(2,9,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(4,19,36),(3,14,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,10),(3,14,27),(2,9,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(1,5,9),(4,19,36)); lvl=4; h,r-ind=1,1
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    [3,3]((1,3,6),(2,9,18),(2,9,15)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,11,23),(1,3,6),(2,11,22)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((2,11,23),(1,3,6),(1,1,2)); lvl=1; h,r-ind=2,2; optimized-h
```

23.34 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,12,23)); lvl=0; h,r-ind=23,529
  [5,3]((1,6,11),(2,10,19),(2,6,11),(2,7,12),(3,17,32)); lvl=1; h,r-ind=1,1
    [4,3]((3,16,30),(3,13,24),(1,6,11),(2,9,16)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((3,13,24),(1,5,9),(2,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((6,29,54),(3,13,24),(1,5,9)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((3,16,30),(6,29,54),(1,6,11),(1,5,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,9),(3,15,28),(6,29,54)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(5,26,48),(3,15,28)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,11),(3,16,30),(5,26,48),(3,15,28)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,16,30),(4,21,39),(3,15,28)); lvl=5; h,r-ind=1,1
          [3,3]((5,26,48),(4,21,39),(3,15,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(3,16,30),(4,21,39)); lvl=5; h,r-ind=1,1
          [3,3]((5,26,48),(1,6,11),(4,21,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(1,5,9),(5,26,48)); lvl=4; h,r-ind=1,1
    [5,3]((2,6,11),(2,8,15),(3,13,24),(1,4,7),(2,9,16)); lvl=2; h,r-ind=1,1
      [5,3]((6,25,46),(9,37,67),(3,13,24),(2,9,16),(6,25,45)); lvl=3; h,r-ind=1,1
        [3,3]((5,21,38),(2,9,16),(6,25,45)); lvl=4; h,r-ind=1,1
        [3,3]((9,37,67),(5,21,38),(6,25,45)); lvl=4; h,r-ind=1,1
        [3,3]((5,21,38),(9,38,69),(2,9,16)); lvl=4; h,r-ind=1,1
        [3,3]((9,38,69),(4,17,31),(2,9,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,17,31),(3,13,24),(2,9,16)); lvl=4; h,r-ind=1,1
        [3,3]((6,25,46),(4,17,31),(3,13,24)); lvl=4; h,r-ind=1,1
        [4,3]((6,25,46),(15,62,113),(9,38,69),(4,17,31)); lvl=4; h,r-ind=1,1
          [3,3]((16,67,122),(9,38,69),(12,50,91)); lvl=5; h,r-ind=1,1
          [4,3]((7,29,53),(16,67,122),(27,113,206),(12,50,91)); lvl=5; h,r-ind=1,1
            [3,3]((23,96,175),(27,113,206),(16,67,122)); lvl=6; h,r-ind=1,1
            [3,3]((12,50,91),(23,96,175),(16,67,122)); lvl=6; h,r-ind=1,1
            [3,3]((7,29,53),(12,50,91),(23,96,175)); lvl=6; h,r-ind=1,1
            [3,3]((7,29,53),(23,96,175),(27,113,206)); lvl=6; h,r-ind=1,1
          [3,3]((7,29,53),(15,62,113),(12,50,91)); lvl=5; h,r-ind=1,1
          [4,3]((4,17,31),(6,25,46),(7,29,53),(27,113,206)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((6,25,46),(11,46,84),(7,29,53)); lvl=6; h,r-ind=1,1
            [3,3]((27,113,206),(11,46,84),(7,29,53)); lvl=6; h,r-ind=1,1
            [3,3]((4,17,31),(27,113,206),(11,46,84)); lvl=6; h,r-ind=1,1
            [3,3]((4,17,31),(6,25,46),(11,46,84)); lvl=6; h,r-ind=1,1
          [4,3]((4,17,31),(16,67,122),(27,113,206),(9,38,69)); lvl=5; h,r-ind=1,1
            [3,3]((27,113,206),(20,84,153),(16,67,122)); lvl=6; h,r-ind=1,1
            [3,3]((9,38,69),(20,84,153),(16,67,122)); lvl=6; h,r-ind=1,1
            [3,3]((4,17,31),(9,38,69),(20,84,153)); lvl=6; h,r-ind=1,1
            [3,3]((4,17,31),(27,113,206),(20,84,153)); lvl=6; h,r-ind=1,1
        [4,3]((9,37,67),(5,21,38),(15,62,113),(9,38,69)); lvl=4; h,r-ind=1,1
          [4,3]((5,21,38),(9,38,69),(30,125,227),(17,71,129)); lvl=5; h,r-ind=1,1
            [3,3]((9,38,69),(22,92,167),(17,71,129)); lvl=6; h,r-ind=1,1
            [3,3]((30,125,227),(22,92,167),(17,71,129)); lvl=6; h,r-ind=1,1
            [3,3]((5,21,38),(30,125,227),(22,92,167)); lvl=6; h,r-ind=1,1
            [3,3]((5,21,38),(9,38,69),(22,92,167)); lvl=6; h,r-ind=1,1
          [4,3]((8,33,60),(12,50,91),(30,125,227),(17,71,129)); lvl=5; h,r-ind=1,1
            [3,3]((25,104,189),(12,50,91),(17,71,129)); lvl=6; h,r-ind=1,1
            [3,3]((30,125,227),(25,104,189),(17,71,129)); lvl=6; h,r-ind=1,1
            [3,3]((8,33,60),(30,125,227),(25,104,189)); lvl=6; h,r-ind=1,1
            [3,3]((8,33,60),(25,104,189),(12,50,91)); lvl=6; h,r-ind=1,1
          [3,3]((8,33,60),(12,50,91),(15,62,113)); lvl=5; h,r-ind=1,1
          [3,3]((12,50,91),(9,38,69),(17,71,129)); lvl=5; h,r-ind=1,1
          [4,3]((9,37,67),(8,33,60),(5,21,38),(30,125,227)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((8,33,60),(30,125,227),(13,54,98)); lvl=6; h,r-ind=1,1
            [3,3]((5,21,38),(30,125,227),(13,54,98)); lvl=6; h,r-ind=1,1
            [3,3]((9,37,67),(8,33,60),(13,54,98)); lvl=6; h,r-ind=1,1
            [3,3]((5,21,38),(9,37,67),(13,54,98)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,7),(2,9,16),(6,25,45)); lvl=3; h,r-ind=1,1
      [4,3]((9,37,67),(4,16,29),(1,4,7),(6,25,45)); lvl=3; h,r-ind=1,1
        [3,3]((10,41,74),(1,4,7),(4,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((9,37,67),(10,41,74),(4,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((6,25,45),(9,37,67),(10,41,74)); lvl=4; h,r-ind=1,1
        [3,3]((6,25,45),(10,41,74),(1,4,7)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,11),(2,7,13),(4,16,29),(1,4,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,20),(2,7,13),(4,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(3,11,20),(4,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,11),(3,11,20),(2,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,6,11),(3,11,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,15),(6,25,46),(3,13,24)); lvl=3; h,r-ind=1,1
      [5,3]((2,8,15),(2,7,13),(6,25,46),(9,37,67),(4,16,29)); lvl=3; h,r-ind=1,1
```

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      [3,3]((3,12,22),(9,37,67),(4,16,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,13),(3,12,22),(4,16,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,15),(2,7,13),(3,12,22)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,22),(15,62,113),(9,37,67)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((3,12,22),(6,25,46),(15,62,113)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,8,15),(3,12,22),(6,25,46)); lvl=4; h,r-ind=1,1
  [3,3]((2,6,11),(2,7,12),(1,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((3,17,32),(3,16,30),(1,6,11)); lvl=2; h,r-ind=1,1
  [3,3]((2,10,19),(3,17,32),(3,16,30)); lvl=2; h,r-ind=1,1
  [4,3]((2,10,19),(3,16,30),(2,8,15),(3,13,24)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,17),(2,10,19),(3,16,30),(6,29,54)); lvl=3; h,r-ind=1,1
      [4,3]((7,34,64),(3,15,28),(3,16,30),(2,10,19)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,15,28),(5,25,47),(3,16,30)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,19),(5,25,47),(3,16,30)); lvl=5; h,r-ind=1,1
        [3,3]((7,34,64),(2,10,19),(5,25,47)); lvl=5; h,r-ind=1,1
        [3,3]((7,34,64),(3,15,28),(5,25,47)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,17),(7,34,64),(2,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,17),(7,34,64),(3,15,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,17),(6,29,54),(3,15,28)); lvl=4; h,r-ind=1,1
    [4,3]((2,8,15),(2,9,17),(3,13,24),(6,29,54)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,17),(3,14,26),(6,29,54)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,17),(7,31,58),(3,14,26)); lvl=4; h,r-ind=1,1
      [4,3]((3,13,24),(2,8,15),(7,31,58),(3,14,26)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,8,15),(7,31,58),(5,22,41)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,26),(7,31,58),(5,22,41)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,24),(2,8,15),(5,22,41)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,26),(3,13,24),(5,22,41)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,15),(2,9,17),(7,31,58)); lvl=4; h,r-ind=1,1
[3,3]((2,12,23),(1,6,11),(3,17,32)); lvl=1; h,r-ind=1,1
[3,3]((1,6,11),(1,6,6),(2,7,12)); lvl=1; h,r-ind=25,5; alert-h-inc
  [5,3]((2,12,17),(4,19,29),(1,6,11),(2,9,16),(2,9,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,8),(2,9,15),(3,14,22)); lvl=3; h,r-ind=1,1
    [4,3]((4,19,29),(2,10,15),(1,5,8),(3,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(2,10,15),(5,24,37)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,29),(2,10,15),(5,24,37)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,22),(4,19,29),(5,24,37)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,22),(1,5,8),(5,24,37)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,15),(4,21,31),(1,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((4,21,31),(2,12,17),(1,5,8),(1,6,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,16),(4,22,33),(1,6,9),(2,12,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,25),(4,22,33),(1,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,17),(3,17,25),(1,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,16),(2,12,17),(3,17,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,16),(3,17,25),(4,22,33)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(2,11,16),(4,22,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(4,21,31),(2,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(4,22,33),(1,6,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(1,6,9),(2,12,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(2,9,16),(2,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(1,5,9),(2,9,16)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,8),(1,6,11),(2,12,19),(1,5,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,9),(3,16,27),(1,6,10),(1,6,11)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,19),(3,16,27),(1,6,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(2,11,19),(1,6,10)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(1,6,11),(2,11,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(2,11,19),(3,16,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(1,5,9),(3,16,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(3,16,27),(1,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(2,12,19),(1,6,10)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,7),(2,9,16),(2,9,15)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,12),(1,4,7),(1,4,6)); lvl=2; h,r-ind=1,1
  [5,3]((1,4,7),(1,4,6),(2,9,13),(4,19,29),(2,9,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,13),(2,9,14),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(2,9,14),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(2,9,15),(2,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,13),(2,9,14),(3,14,21)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,14),(4,19,29),(3,14,22),(3,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,29),(3,14,22),(6,28,43)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,14),(3,14,22),(6,28,43)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,21),(2,9,14),(6,28,43)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,21),(4,19,29),(6,28,43)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,15),(2,9,14),(3,14,22)); lvl=3; h,r-ind=1,1
  [5,3]((1,6,6),(2,9,12),(2,9,13),(2,12,17),(4,19,29)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,7),(2,10,15),(3,14,21),(4,19,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,15),(4,19,29),(5,24,36)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,21),(4,19,29),(5,24,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(3,14,21),(5,24,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(2,10,15),(5,24,36)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(2,10,15),(4,21,31)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,8),(1,5,7),(2,12,17),(4,21,31)); lvl=3; h,r-ind=1,1
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      [3,3]((1,5,7),(2,11,16),(4,21,31)); lvl=4; h,r-ind=1,1
      [3,3]((4,22,31),(1,5,7),(2,11,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,8),(4,22,31),(2,12,17),(2,11,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,24),(4,22,31),(2,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,17),(3,17,24),(2,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(2,12,17),(3,17,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(3,17,24),(4,22,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(4,22,31),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,8),(2,12,15),(1,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,13),(3,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(1,5,7),(2,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,12),(1,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,6),(2,12,15),(1,5,6),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,7),(3,16,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(1,5,7),(3,16,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,12,15),(1,5,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,6),(1,6,7),(1,5,6),(3,16,20)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,13),(1,6,7),(3,16,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(2,11,13),(3,16,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(2,11,13),(1,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(1,6,6),(2,11,13)); lvl=5; h,r-ind=1,1
  [3,3]((1,4,6),(2,9,12),(2,9,13)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,6,11),(1,6,6)); lvl=1; h,r-ind=5,5; optimized-h
[3,3]((2,12,23),(0,1,0),(1,6,11)); lvl=1; h,r-ind=1,1
[3,3]((2,12,23),(2,10,19),(3,17,32)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((1,0,0),(2,10,19),(2,6,11)); lvl=1; h,r-ind=4,4; optimized-h
[3,3]((2,12,23),(1,0,0),(2,10,19)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((1,6,6),(1,0,0),(2,6,11),(2,7,12)); lvl=1; h,r-ind=5,5
  [3,3]((3,8,14),(2,6,11),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,12),(2,6,11),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,6),(2,7,12),(1,3,5)); lvl=2; h,r-ind=1,1
  [5,3]((2,5,8),(3,8,14),(2,4,7),(4,7,12),(1,3,5)); lvl=2; h,r-ind=1,1
    [6,3]((5,10,17),(8,17,29),(9,20,34),(3,6,10),(4,9,15),(7,16,27)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,22),(7,16,27),(9,20,34)); lvl=4; h,r-ind=1,1
      [3,3]((6,13,22),(8,17,29),(9,20,34)); lvl=4; h,r-ind=1,1
      [3,3]((5,10,17),(6,13,22),(8,17,29)); lvl=4; h,r-ind=1,1
      [3,3]((6,13,22),(7,16,27),(4,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((6,13,22),(3,6,10),(4,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((5,10,17),(6,13,22),(3,6,10)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,5),(2,5,8),(4,9,15),(7,16,27)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,20),(2,5,8),(4,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((7,16,27),(5,12,20),(4,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(7,16,27),(5,12,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(5,12,20),(2,5,8)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,5),(3,7,12),(9,20,34),(7,16,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(9,20,34),(10,23,39)); lvl=4; h,r-ind=1,1
      [3,3]((7,16,27),(9,20,34),(10,23,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(3,7,12),(10,23,39)); lvl=4; h,r-ind=1,1
      [3,3]((7,16,27),(1,3,5),(10,23,39)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(3,8,14),(3,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,12),(5,10,17),(3,6,10)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,7),(4,7,12),(5,10,17),(8,17,29)); lvl=3; h,r-ind=1,1
      [3,3]((7,14,24),(5,10,17),(4,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(7,14,24),(4,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((7,14,24),(8,17,29),(5,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(7,14,24),(8,17,29)); lvl=4; h,r-ind=1,1
    [4,3]((2,4,7),(3,7,12),(8,17,29),(9,20,34)); lvl=3; h,r-ind=1,1
      [3,3]((9,20,34),(3,7,12),(11,24,41)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(3,7,12),(11,24,41)); lvl=4; h,r-ind=1,1
      [3,3]((8,17,29),(2,4,7),(11,24,41)); lvl=4; h,r-ind=1,1
      [3,3]((8,17,29),(9,20,34),(11,24,41)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,14),(2,4,7),(3,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(3,6,10),(4,9,15)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,8),(2,6,9),(1,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((2,9,12),(1,4,6),(2,6,9),(1,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((4,15,21),(2,6,9),(1,3,5),(5,18,27)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((7,24,36),(2,7,10),(1,3,5),(2,6,9)); lvl=4; h,r-ind=1,3
        [3,3]((1,3,5),(3,10,15),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,10),(3,10,15),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((7,24,36),(2,7,10),(3,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((7,24,36),(1,3,5),(3,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,16),(7,24,36),(2,7,10)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((3,11,16),(4,15,21),(2,7,10)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,16),(7,24,36),(5,18,27),(1,3,5)); lvl=4; h,r-ind=1,3
        [3,3]((4,14,21),(7,24,36),(1,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((5,18,27),(4,14,21),(1,3,5)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,16),(5,18,27),(4,14,21)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,16),(4,14,21),(7,24,36)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,6),(1,3,5),(5,18,27)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(2,9,12),(4,15,21),(5,18,27)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
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      [3,3]((3,11,16),(2,8,11),(7,27,39)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,4,6),(2,9,12),(2,8,11),(7,27,39)); lvl=4; h,r-ind=1,3
        [3,3]((3,12,17),(2,9,12),(2,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((7,27,39),(3,12,17),(2,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(7,27,39),(3,12,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(3,12,17),(2,9,12)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,6),(5,18,27),(3,11,16),(7,27,39)); lvl=4; h,r-ind=1,3
        [3,3]((3,11,16),(4,15,22),(5,18,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(4,15,22),(5,18,27)); lvl=5; h,r-ind=1,1
        [3,3]((7,27,39),(3,11,16),(4,15,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(7,27,39),(4,15,22)); lvl=5; h,r-ind=1,1
      [3,3]((4,15,21),(3,11,16),(2,8,11)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,6),(1,3,3),(2,9,12),(2,6,9)); lvl=2; h,r-ind=9,3; alert-h-inc
    [4,3]((2,6,9),(4,15,21),(1,4,5),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(4,15,21),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,14,19),(2,7,10),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(4,14,19),(1,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,9),(1,3,4),(4,14,19),(2,7,10)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,14),(1,3,4),(4,14,19)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,14),(2,7,10),(4,14,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,9),(3,10,14),(2,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,9),(3,10,14),(1,3,4)); lvl=5; h,r-ind=1,1
    [4,3]((2,9,9),(1,3,3),(1,4,5),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,4),(3,11,13),(1,3,4),(1,3,3)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,8),(3,11,13),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(1,3,3),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(2,7,8),(3,11,13)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,13),(1,4,5),(1,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(3,11,13),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,9),(1,4,4),(1,4,5)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,6),(1,5,6),(2,9,9),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,6),(3,14,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,6),(1,5,5),(1,5,6),(3,14,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,10,11),(3,14,16),(1,5,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(2,10,11),(1,5,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(1,6,6),(2,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(2,10,11),(3,14,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,5),(1,4,5),(3,14,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,9),(1,5,5),(1,4,5)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,6),(2,9,12),(4,15,21),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,8,11),(4,17,22)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,6),(2,9,12),(2,8,11),(4,17,22)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,17),(2,9,12),(2,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,22),(3,13,17),(2,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(4,17,22),(3,13,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(3,13,17),(2,9,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,6),(4,17,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(4,15,21),(2,8,11)); lvl=4; h,r-ind=1,1
  [3,3]((3,8,14),(2,4,7),(2,6,11)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(2,4,7),(2,6,11)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(2,4,7),(4,7,12)); lvl=2; h,r-ind=1,1
  [5,3]((1,3,3),(2,5,8),(2,6,9),(1,0,0),(4,7,12)); lvl=2; h,r-ind=1,1
    [4,3]((3,6,10),(2,5,8),(1,2,3),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,8,13),(1,2,3),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,10),(4,8,13),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((4,8,13),(3,5,8),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,10),(4,8,13),(3,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(3,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(1,0,0),(1,2,3)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,3,4),(1,3,3),(2,3,3),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,2),(3,7,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(1,3,3),(1,2,2),(3,7,9)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,3),(2,5,6),(1,2,2)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,9),(2,5,6),(1,2,2)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(1,3,3),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,9),(1,3,4),(2,5,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(3,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,3),(1,2,2)); lvl=4; h,r-ind=1,1
    [4,3]((4,7,12),(3,6,10),(2,3,5),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,15),(3,5,8),(3,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,12),(5,9,15),(3,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,15),(2,3,5),(3,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,12),(5,9,15),(2,3,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,5),(3,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(4,7,12),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(2,5,8),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,9),(1,2,3)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,6,6),(1,0,0)); lvl=1; h,r-ind=6,6; optimized-h
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23.35 Resolved

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[3,3]((1,0,0),(0,1,0),(2,13,23)); lvl=0; h,r-ind=23,529
  [3,3]((2,5,8),(1,0,0),(1,4,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,13,23),(1,0,0),(1,4,7)); lvl=1; h,r-ind=1,1
  [5,3]((3,15,26),(2,10,17),(2,5,8),(4,13,20),(1,4,7)); lvl=1; h,r-ind=1,1
    [4,3]((3,14,24),(2,8,13),(6,23,38),(2,10,17)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,13),(6,23,38),(3,12,20)); lvl=3; h,r-ind=1,1
      [4,3]((6,25,42),(2,9,15),(2,8,13),(3,12,20)); lvl=3; h,r-ind=1,1
        [3,3]((5,21,35),(2,8,13),(2,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((6,25,42),(5,21,35),(2,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((5,21,35),(3,12,20),(2,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((6,25,42),(5,21,35),(3,12,20)); lvl=4; h,r-ind=1,1
      [4,3]((3,14,24),(6,25,42),(2,9,15),(2,10,17)); lvl=3; h,r-ind=1,1
        [3,3]((3,13,22),(2,9,15),(7,32,54)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,17),(2,9,15),(7,32,54)); lvl=4; h,r-ind=1,1
        [4,3]((2,10,17),(3,14,24),(3,13,22),(7,32,54)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,23,39),(3,13,22),(3,14,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,17),(5,23,39),(3,14,24)); lvl=5; h,r-ind=1,1
          [3,3]((7,32,54),(5,23,39),(3,13,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,17),(7,32,54),(5,23,39)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,22),(6,25,42),(2,9,15)); lvl=4; h,r-ind=1,1
    [3,3]((3,15,26),(3,14,24),(2,10,17)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,7),(3,14,24),(6,23,38),(1,3,5)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,5),(6,23,39),(3,12,20),(6,25,42)); lvl=3; h,r-ind=1,1
        [4,3]((8,31,52),(3,12,20),(4,16,27),(6,25,42)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,12,20),(6,25,42),(7,28,47)); lvl=5; h,r-ind=1,1
          [3,3]((4,16,27),(6,25,42),(7,28,47)); lvl=5; h,r-ind=1,1
          [3,3]((8,31,52),(3,12,20),(7,28,47)); lvl=5; h,r-ind=1,1
          [3,3]((4,16,27),(8,31,52),(7,28,47)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(8,31,52),(4,16,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(6,23,39),(4,16,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(8,31,52),(3,12,20)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,7),(6,23,39),(3,14,24),(6,25,42)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,13,22),(4,16,27),(9,37,63)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,4,7),(6,23,39),(4,16,27),(9,37,63)); lvl=4; h,r-ind=1,3
          [3,3]((5,20,34),(6,23,39),(4,16,27)); lvl=5; h,r-ind=1,1
          [3,3]((9,37,63),(5,20,34),(4,16,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(9,37,63),(5,20,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(5,20,34),(6,23,39)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,7),(3,14,24),(3,13,22),(9,37,63)); lvl=4; h,r-ind=1,3
          [3,3]((3,13,22),(4,17,29),(3,14,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(4,17,29),(3,14,24)); lvl=5; h,r-ind=1,1
          [3,3]((9,37,63),(3,13,22),(4,17,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(9,37,63),(4,17,29)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,22),(6,25,42),(4,16,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(6,23,38),(3,12,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(1,3,5),(6,23,39)); lvl=3; h,r-ind=1,1
    [3,3]((3,15,26),(1,4,7),(3,14,24)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,11),(2,8,13),(6,23,38),(1,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,13),(3,11,18),(6,23,38)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(3,11,18),(6,23,38)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(2,8,13),(3,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,7,11),(3,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,11),(3,9,14),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,14),(1,3,5),(2,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((4,13,20),(2,7,11),(3,9,14)); lvl=2; h,r-ind=1,1
  [3,3]((3,16,28),(3,15,26),(1,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,13,23),(3,16,28),(1,4,7)); lvl=1; h,r-ind=1,1
  [7,3]((5,32,55),(3,19,33),(1,6,10),(3,16,28),(3,15,26),(2,10,17),(2,12,21)); lvl=1; h,r-ind=1,1
    [3,3]((4,25,43),(1,6,10),(5,32,55)); lvl=2; h,r-ind=1,1
    [3,3]((4,25,43),(3,19,33),(5,32,55)); lvl=2; h,r-ind=1,1
    [4,3]((4,25,43),(3,18,31),(8,49,85),(3,19,33)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,37,64),(8,49,85),(3,18,31)); lvl=3; h,r-ind=1,1
      [3,3]((4,25,43),(6,37,64),(3,18,31)); lvl=3; h,r-ind=1,1
      [3,3]((3,19,33),(4,25,43),(6,37,64)); lvl=3; h,r-ind=1,1
      [3,3]((3,19,33),(6,37,64),(8,49,85)); lvl=3; h,r-ind=1,1
    [3,3]((8,49,85),(2,12,21),(3,19,33)); lvl=2; h,r-ind=1,1
    [3,3]((4,25,43),(3,18,31),(1,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,18,31),(2,11,19),(1,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,17),(2,11,19),(1,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,15,26),(2,10,17),(2,11,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,16,28),(3,15,26),(2,11,19)); lvl=2; h,r-ind=1,1
    [4,3]((3,18,31),(8,49,85),(2,12,21),(2,11,19)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((8,49,85),(5,30,52),(2,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,19),(5,30,52),(2,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,18,31),(2,11,19),(5,30,52)); lvl=3; h,r-ind=1,1
      [3,3]((3,18,31),(8,49,85),(5,30,52)); lvl=3; h,r-ind=1,1
    [3,3]((3,16,28),(2,12,21),(2,11,19)); lvl=2; h,r-ind=1,1
  [3,3]((2,13,23),(3,19,33),(2,12,21)); lvl=1; h,r-ind=1,1
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[3,3]((2,13,23),(5,32,55),(3,19,33)); lvl=1; h,r-ind=1,1
[3,3]((2,13,23),(3,16,28),(2,12,21)); lvl=1; h,r-ind=1,1
[4,3]((1,5,5),(2,5,8),(4,13,20),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,3),(3,8,12),(2,5,8),(3,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,12),(3,9,14),(4,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(3,9,14),(4,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,8,12),(4,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,8),(4,11,17)); lvl=3; h,r-ind=1,1
  [5,3]((2,7,10),(4,11,16),(3,8,12),(4,13,20),(3,9,14)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc
    [3,3]((2,6,9),(3,8,12),(3,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(4,13,20),(3,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(4,13,20),(3,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,10),(2,6,9),(3,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,9),(4,11,16),(3,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,9,13),(2,6,9),(4,11,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,10),(3,9,13),(2,6,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(2,5,8)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,5),(2,5,7),(1,0,0),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,7),(1,2,3),(4,9,12),(7,15,20)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,15),(1,2,3),(7,15,20)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,15),(4,9,12),(7,15,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,7),(5,11,15),(4,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,7),(5,11,15),(1,2,3)); lvl=4; h,r-ind=1,1
    [5,3]((1,2,2),(2,4,5),(2,5,6),(4,9,12),(7,15,20)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,17),(4,9,12),(7,15,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,17),(7,15,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(8,17,21)); lvl=4; h,r-ind=1,1
      [4,3]((5,11,14),(6,13,17),(3,7,9),(4,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((9,20,26),(4,9,12),(6,13,17)); lvl=5; h,r-ind=1,1
        [3,3]((5,11,14),(9,20,26),(6,13,17)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,9),(5,11,14),(9,20,26)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,9),(9,20,26),(4,9,12)); lvl=5; h,r-ind=1,1
      [4,3]((2,4,5),(8,17,21),(5,11,14),(6,13,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,15,19),(5,11,14),(8,17,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(7,15,19),(8,17,21)); lvl=5; h,r-ind=1,1
        [3,3]((6,13,17),(7,15,19),(5,11,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(6,13,17),(7,15,19)); lvl=5; h,r-ind=1,1
      [5,3]((1,2,2),(8,17,21),(5,11,14),(2,5,6),(3,7,9)); lvl=4; h,r-ind=1,1
        [4,3]((5,11,14),(10,22,27),(6,13,16),(9,20,25)); lvl=5; h,r-ind=1,1
          [3,3]((15,33,41),(10,22,27),(6,13,16)); lvl=6; h,r-ind=1,1
          [3,3]((5,11,14),(15,33,41),(6,13,16)); lvl=6; h,r-ind=1,1
          [3,3]((9,20,25),(15,33,41),(10,22,27)); lvl=6; h,r-ind=1,1
          [3,3]((5,11,14),(9,20,25),(15,33,41)); lvl=6; h,r-ind=1,1
        [3,3]((8,17,21),(5,11,14),(6,13,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(8,17,21),(6,13,16)); lvl=5; h,r-ind=1,1
        [4,3]((4,9,11),(3,7,9),(10,22,27),(9,20,25)); lvl=5; h,r-ind=1,1
          [3,3]((13,29,36),(9,20,25),(3,7,9)); lvl=6; h,r-ind=1,1
          [3,3]((4,9,11),(13,29,36),(3,7,9)); lvl=6; h,r-ind=1,1
          [3,3]((10,22,27),(13,29,36),(9,20,25)); lvl=6; h,r-ind=1,1
          [3,3]((4,9,11),(10,22,27),(13,29,36)); lvl=6; h,r-ind=1,1
        [3,3]((5,11,14),(3,7,9),(9,20,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(4,9,11),(10,22,27)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,11),(2,5,6),(3,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(4,9,11),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(10,22,27),(6,13,16)); lvl=5; h,r-ind=1,1
    [3,3]((2,5,5),(1,2,2),(2,5,6)); lvl=3; h,r-ind=1,1
    [5,3]((1,0,0),(2,3,3),(2,4,5),(1,2,3),(7,15,20)); lvl=3; h,r-ind=1,1
      [4,3]((2,4,5),(7,13,17),(6,11,14),(3,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((9,17,22),(7,13,17),(6,11,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(9,17,22),(6,11,14)); lvl=5; h,r-ind=1,1
        [3,3]((9,17,22),(3,6,8),(7,13,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(9,17,22),(3,6,8)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,3),(5,9,12),(7,13,17),(3,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,12),(7,13,17),(8,15,20)); lvl=5; h,r-ind=1,1
        [3,3]((3,6,8),(7,13,17),(8,15,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(3,6,8),(8,15,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(5,9,12),(8,15,20)); lvl=5; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,1),(1,2,3),(5,9,12)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((1,1,1),(5,9,12),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(5,9,12),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,0),(1,2,3),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,0),(1,1,1),(2,3,4)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,5),(7,15,20),(3,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(7,15,20),(3,6,8)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,3),(2,4,5),(3,5,6),(6,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,11),(6,11,14),(2,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,3),(5,9,11),(2,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,6),(5,9,11),(6,11,14)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,6),(2,3,3),(5,9,11)); lvl=5; h,r-ind=1,1
      [5,3]((1,1,1),(5,9,12),(7,13,17),(3,5,6),(6,11,14)); lvl=4; h,r-ind=1,1
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          [3,3]((7,13,17),(4,7,9),(6,11,14)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,6),(4,7,9),(6,11,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(3,5,6),(4,7,9)); lvl=5; h,r-ind=1,1
          [3,3]((5,9,12),(1,1,1),(4,7,9)); lvl=5; h,r-ind=1,1
          [3,3]((5,9,12),(7,13,17),(4,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,3),(1,1,1),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(2,5,7),(4,9,12)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,5,7),(4,11,16),(1,2,3),(3,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,12),(4,11,16),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(4,11,16),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,8,12),(5,13,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(2,7,10),(2,5,7),(4,11,16)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,10),(3,9,13)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,7),(1,3,4),(4,11,16),(3,9,13)); lvl=3; h,r-ind=1,1
        [3,3]((5,14,20),(3,9,13),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,7),(5,14,20),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,16),(5,14,20),(3,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,7),(4,11,16),(5,14,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,4),(2,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,5),(1,4,5),(2,5,5),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,5),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,3,4),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,5),(2,7,7),(1,3,4),(1,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,4),(2,7,7),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,13),(1,3,4),(1,4,4)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,5),(1,4,5),(3,11,13),(1,4,4)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,8,9),(3,11,13),(1,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(2,8,9),(1,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,9),(1,4,4),(3,11,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(2,8,9),(1,4,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(3,11,13),(1,3,4)); lvl=4; h,r-ind=1,1
[3,3]((0,1,0),(1,5,5),(1,0,0)); lvl=1; h,r-ind=5,5; optimized-h
[5,3]((1,6,10),(1,6,6),(2,10,17),(1,5,5),(4,13,20)); lvl=1; h,r-ind=1,1
  [4,3]((2,7,11),(1,4,6),(4,13,20),(2,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((6,21,32),(3,10,15),(2,7,10),(1,4,6)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,14,21),(2,7,10),(3,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((6,21,32),(4,14,21),(3,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(6,21,32),(4,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(4,14,21),(2,7,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,11),(6,21,32),(1,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,11),(6,21,32),(4,13,20),(3,10,15)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,10,15),(6,21,32),(5,17,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(6,21,32),(5,17,26)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,20),(3,10,15),(5,17,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(4,13,20),(5,17,26)); lvl=4; h,r-ind=1,1
  [5,3]((1,4,6),(2,9,13),(2,9,12),(1,4,5),(2,7,10)); lvl=2; h,r-ind=1,1
    [5,3]((4,17,23),(4,17,24),(5,21,29),(2,9,12),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,18),(2,9,13),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,23),(3,13,18),(2,9,12)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,23),(3,13,18),(5,21,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,18),(4,17,24),(2,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,18),(5,21,29),(4,17,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(4,17,24),(2,9,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(4,17,24),(5,21,29),(2,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,17,24),(5,21,29),(6,25,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,11),(5,21,29),(6,25,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(4,17,24),(6,25,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,11),(1,4,6),(6,25,35)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,10),(2,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((4,17,23),(2,9,12),(1,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((4,17,23),(5,21,29),(2,8,11),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(5,21,29),(6,25,34)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,23),(5,21,29),(6,25,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(4,17,23),(6,25,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,8,11),(6,25,34)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,10),(2,8,11),(1,4,5)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,6),(1,5,5),(2,9,12),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,9,11),(1,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,11),(1,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,12),(2,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(1,4,5),(2,9,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,6),(1,6,6),(1,5,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,6),(2,9,13),(2,9,12),(1,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,12),(2,9,13),(3,14,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,13),(3,14,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,12),(3,14,19)); lvl=3; h,r-ind=1,1
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      [3,3]((1,5,7),(1,5,6),(3,14,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,8),(1,5,6),(1,6,6),(1,5,7)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,6),(1,6,7),(1,5,6),(3,16,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,13),(1,6,7),(3,16,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,11,13),(3,16,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(2,11,13),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(1,6,6),(2,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(1,5,6),(3,16,20)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,8),(1,5,7),(1,6,7),(3,16,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,14),(1,5,7),(3,16,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,14),(1,6,7),(3,16,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(2,11,14),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(2,11,14),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,14),(1,4,6),(2,9,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,14),(2,8,13),(2,7,11),(1,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,12,19),(2,7,11),(2,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,14),(3,12,19),(2,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(3,12,19),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,9,14),(3,12,19)); lvl=3; h,r-ind=1,1
    [4,3]((2,10,17),(2,9,14),(2,8,13),(1,5,8)); lvl=2; h,r-ind=1,1
      [3,3]((4,18,29),(2,9,14),(2,8,13)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,9,15),(4,18,29),(2,8,13)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((4,18,29),(1,5,8),(2,9,14)); lvl=3; h,r-ind=1,1
      [4,3]((2,10,17),(2,9,15),(4,18,29),(1,5,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,23),(2,9,15),(4,18,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(3,14,23),(4,18,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,17),(3,14,23),(2,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(2,10,17),(3,14,23)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(2,10,17),(1,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,14),(2,9,13),(1,5,7),(1,5,8)); lvl=2; h,r-ind=1,1
      [3,3]((3,14,21),(1,5,7),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,14),(3,14,21),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(3,14,21),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,14),(1,5,8),(3,14,21)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,10),(1,6,8),(1,5,7),(1,5,8)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,8),(1,6,9),(1,5,7),(3,16,24)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,6,9),(3,16,24),(2,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(3,16,24),(2,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(1,6,9),(2,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(1,6,8),(2,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(1,5,7),(3,16,24)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,10),(1,5,8),(1,6,9),(3,16,24)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,8),(2,11,17),(3,16,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,9),(2,11,17),(3,16,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(1,6,9),(2,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,10),(1,5,8),(2,11,17)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,6),(1,5,5)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(5,32,55),(1,6,10),(1,6,6)); lvl=1; h,r-ind=1,1
    [4,3]((2,13,22),(3,20,33),(3,19,30),(1,6,10)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,10),(3,19,30),(2,13,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,10),(5,32,53),(2,13,21)); lvl=3; h,r-ind=1,1
      [4,3]((2,13,22),(3,20,33),(5,32,53),(2,13,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,20,33),(4,26,43),(2,13,21)); lvl=4; h,r-ind=1,1
        [3,3]((5,32,53),(4,26,43),(2,13,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,22),(5,32,53),(4,26,43)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,22),(3,20,33),(4,26,43)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(2,13,22),(5,32,53)); lvl=3; h,r-ind=1,1
    [4,3]((6,38,51),(1,6,8),(3,19,30),(1,6,10)); lvl=2; h,r-ind=1,1
      [4,3]((3,19,30),(6,38,55),(1,6,9),(1,6,10)); lvl=3; h,r-ind=1,1
        [3,3]((3,19,28),(6,38,55),(1,6,9)); lvl=4; h,r-ind=1,1
        [4,3]((6,38,57),(6,37,57),(3,19,28),(1,6,9)); lvl=4; h,r-ind=1,1
          [3,3]((4,25,38),(1,6,9),(8,50,75)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,28),(1,6,9),(8,50,75)); lvl=5; h,r-ind=1,1
          [4,3]((6,38,57),(3,19,28),(4,25,38),(8,50,75)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((4,25,38),(8,50,75),(7,44,66)); lvl=6; h,r-ind=1,1
            [3,3]((3,19,28),(8,50,75),(7,44,66)); lvl=6; h,r-ind=1,1
            [3,3]((6,38,57),(4,25,38),(7,44,66)); lvl=6; h,r-ind=1,1
            [3,3]((3,19,28),(6,38,57),(7,44,66)); lvl=6; h,r-ind=1,1
          [3,3]((4,25,38),(6,37,57),(1,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(6,37,57),(1,6,9)); lvl=4; h,r-ind=1,1
        [4,3]((3,19,30),(6,38,57),(1,6,10),(6,37,57)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((1,6,10),(4,25,38),(9,56,87),(6,37,57)); lvl=5; h,r-ind=1,3
            [3,3]((5,31,48),(4,25,38),(9,56,87)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,10),(5,31,48),(9,56,87)); lvl=6; h,r-ind=1,1
            [3,3]((5,31,48),(6,37,57),(4,25,38)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,10),(5,31,48),(6,37,57)); lvl=6; h,r-ind=1,1
          [3,3]((3,19,29),(4,25,38),(9,56,87)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,6,10),(3,19,30),(3,19,29),(9,56,87)); lvl=5; h,r-ind=1,3
            [3,3]((4,25,39),(3,19,29),(3,19,30)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,10),(4,25,39),(3,19,30)); lvl=6; h,r-ind=1,1
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          [3,3]((9,56,87),(4,25,39),(3,19,29)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,10),(9,56,87),(4,25,39)); lvl=6; h,r-ind=1,1
        [3,3]((6,38,57),(3,19,29),(4,25,38)); lvl=5; h,r-ind=1,1
    [4,3]((3,19,26),(6,38,55),(1,6,8),(1,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,31,44),(1,6,9),(1,6,8)); lvl=4; h,r-ind=1,1
      [4,3]((3,19,26),(3,19,27),(5,31,44),(1,6,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,25,35),(5,31,44),(3,19,27)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,26),(4,25,35),(3,19,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(3,19,26),(4,25,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(4,25,35),(5,31,44)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,27),(5,31,44),(1,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((6,38,55),(3,19,27),(1,6,9)); lvl=4; h,r-ind=1,1
    [3,3]((3,19,26),(6,38,51),(1,6,8)); lvl=3; h,r-ind=1,1
  [3,3]((5,32,55),(2,13,22),(1,6,10)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(6,38,51),(3,20,33),(3,19,30)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc
    [4,3]((3,20,27),(6,40,57),(4,26,37),(2,13,18)); lvl=3; h,r-ind=1,1
      [4,3]((12,79,111),(3,20,28),(5,33,47),(7,46,65)); lvl=4; h,r-ind=1,1
        [3,3]((10,66,93),(5,33,47),(3,20,28)); lvl=5; h,r-ind=1,1
        [3,3]((12,79,111),(10,66,93),(3,20,28)); lvl=5; h,r-ind=1,1
        [3,3]((10,66,93),(7,46,65),(5,33,47)); lvl=5; h,r-ind=1,1
        [3,3]((12,79,111),(10,66,93),(7,46,65)); lvl=5; h,r-ind=1,1
      [4,3]((2,13,18),(4,26,37),(12,79,111),(7,46,65)); lvl=4; h,r-ind=1,1
        [3,3]((9,59,83),(4,26,37),(7,46,65)); lvl=5; h,r-ind=1,1
        [3,3]((12,79,111),(9,59,83),(7,46,65)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,18),(12,79,111),(9,59,83)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,18),(9,59,83),(4,26,37)); lvl=5; h,r-ind=1,1
      [3,3]((4,26,37),(5,33,47),(7,46,65)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,18),(3,20,27),(12,79,111),(3,20,28)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((5,33,46),(3,20,28),(3,20,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,18),(5,33,46),(3,20,27)); lvl=5; h,r-ind=1,1
        [3,3]((12,79,111),(5,33,46),(3,20,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,18),(12,79,111),(5,33,46)); lvl=5; h,r-ind=1,1
      [3,3]((3,20,28),(5,33,47),(6,40,57)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,17),(3,20,27),(3,19,26),(2,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,20,27),(4,26,35),(2,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,26),(4,26,35),(2,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,17),(3,19,26),(4,26,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,17),(3,20,27),(4,26,35)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(2,13,17),(3,20,27)); lvl=3; h,r-ind=3,3; optimized-h
    [3,3]((2,13,17),(6,38,51),(3,19,26)); lvl=3; h,r-ind=1,1
    [4,3]((3,19,26),(6,38,55),(4,26,37),(2,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((5,32,46),(4,26,37),(7,45,64)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,18),(12,77,109),(4,26,37),(7,45,64)); lvl=4; h,r-ind=1,1
        [3,3]((9,58,82),(7,45,64),(12,77,109)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,18),(9,58,82),(12,77,109)); lvl=5; h,r-ind=1,1
        [3,3]((9,58,82),(4,26,37),(7,45,64)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,18),(9,58,82),(4,26,37)); lvl=5; h,r-ind=1,1
      [4,3]((3,19,26),(3,19,27),(2,13,18),(12,77,109)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,19,27),(12,77,109),(5,32,45)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,18),(12,77,109),(5,32,45)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,26),(3,19,27),(5,32,45)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,18),(3,19,26),(5,32,45)); lvl=5; h,r-ind=1,1
      [4,3]((3,19,27),(12,77,109),(5,32,46),(7,45,64)); lvl=4; h,r-ind=1,1
        [3,3]((12,77,109),(10,64,91),(7,45,64)); lvl=5; h,r-ind=1,1
        [3,3]((5,32,46),(10,64,91),(7,45,64)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,27),(12,77,109),(10,64,91)); lvl=5; h,r-ind=1,1
        [3,3]((5,32,46),(3,19,27),(10,64,91)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,27),(5,32,46),(6,38,55)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(3,20,27),(6,40,57)); lvl=3; h,r-ind=9,3; optimized-h
    [6,3]((6,40,57),(2,13,21),(3,19,30),(6,38,55),(4,26,37),(3,20,30)); lvl=3; h,r-ind=1,1
      [4,3]((2,13,20),(4,26,39),(3,19,30),(6,38,57)); lvl=4; h,r-ind=1,1
        [4,3]((2,13,20),(12,77,117),(3,19,29),(3,19,30)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((12,77,117),(5,32,49),(3,19,29)); lvl=6; h,r-ind=1,1
          [3,3]((3,19,30),(5,32,49),(3,19,29)); lvl=6; h,r-ind=1,1
          [3,3]((2,13,20),(3,19,30),(5,32,49)); lvl=6; h,r-ind=1,1
          [3,3]((2,13,20),(12,77,117),(5,32,49)); lvl=6; h,r-ind=1,1
        [4,3]((12,77,117),(5,32,48),(7,45,68),(3,19,29)); lvl=5; h,r-ind=1,1
          [3,3]((7,45,68),(10,64,97),(5,32,48)); lvl=6; h,r-ind=1,1
          [3,3]((3,19,29),(10,64,97),(5,32,48)); lvl=6; h,r-ind=1,1
          [3,3]((12,77,117),(7,45,68),(10,64,97)); lvl=6; h,r-ind=1,1
          [3,3]((3,19,29),(12,77,117),(10,64,97)); lvl=6; h,r-ind=1,1
        [3,3]((5,32,48),(6,38,57),(3,19,29)); lvl=5; h,r-ind=1,1
        [4,3]((2,13,20),(12,77,117),(4,26,39),(7,45,68)); lvl=5; h,r-ind=1,1
          [3,3]((12,77,117),(9,58,88),(7,45,68)); lvl=6; h,r-ind=1,1
          [3,3]((4,26,39),(9,58,88),(7,45,68)); lvl=6; h,r-ind=1,1
          [3,3]((2,13,20),(4,26,39),(9,58,88)); lvl=6; h,r-ind=1,1
          [3,3]((2,13,20),(12,77,117),(9,58,88)); lvl=6; h,r-ind=1,1
        [3,3]((5,32,48),(4,26,39),(7,45,68)); lvl=5; h,r-ind=1,1
      [4,3]((4,26,39),(2,13,19),(3,19,28),(6,38,57)); lvl=4; h,r-ind=1,1
        [3,3]((3,19,28),(2,13,19),(10,64,95)); lvl=5; h,r-ind=1,1
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          [4,3]((4,26,39),(5,32,48),(2,13,19),(10,64,95)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((5,32,48),(10,64,95),(7,45,67)); lvl=6; h,r-ind=1,1
            [3,3]((2,13,19),(10,64,95),(7,45,67)); lvl=6; h,r-ind=1,1
            [3,3]((4,26,39),(5,32,48),(7,45,67)); lvl=6; h,r-ind=1,1
            [3,3]((2,13,19),(4,26,39),(7,45,67)); lvl=6; h,r-ind=1,1
          [4,3]((6,38,57),(5,32,48),(3,19,28),(10,64,95)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((8,51,76),(5,32,48),(10,64,95)); lvl=6; h,r-ind=1,1
            [3,3]((3,19,28),(8,51,76),(10,64,95)); lvl=6; h,r-ind=1,1
            [3,3]((6,38,57),(8,51,76),(5,32,48)); lvl=6; h,r-ind=1,1
            [3,3]((3,19,28),(6,38,57),(8,51,76)); lvl=6; h,r-ind=1,1
        [4,3]((2,13,19),(6,38,55),(5,32,46),(3,19,28)); lvl=4; h,r-ind=1,1
          [3,3]((6,38,55),(5,32,46),(8,51,74)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,19),(5,32,46),(8,51,74)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,28),(2,13,19),(8,51,74)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,28),(6,38,55),(8,51,74)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,19),(5,32,46),(4,26,37)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,19),(5,33,47),(4,26,37)); lvl=4; h,r-ind=1,1
        [3,3]((4,26,39),(2,13,19),(3,20,29)); lvl=4; h,r-ind=1,1
        [4,3]((2,13,19),(5,33,47),(3,20,29),(6,40,57)); lvl=4; h,r-ind=1,1
          [3,3]((8,53,76),(6,40,57),(3,20,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,19),(8,53,76),(3,20,29)); lvl=5; h,r-ind=1,1
          [3,3]((5,33,47),(8,53,76),(6,40,57)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,19),(5,33,47),(8,53,76)); lvl=5; h,r-ind=1,1
        [4,3]((2,13,20),(3,20,30),(4,26,39),(3,20,29)); lvl=4; h,r-ind=1,1
          [3,3]((5,33,49),(3,20,29),(3,20,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,20),(5,33,49),(3,20,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,13,20),(4,26,39),(5,33,49)); lvl=5; h,r-ind=1,1
          [3,3]((4,26,39),(5,33,49),(3,20,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,21),(2,13,20),(3,20,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,21),(2,13,20),(3,19,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(2,13,21),(3,20,30)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((3,20,33),(1,7,11),(2,13,21)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,7,11),(6,40,57),(3,20,30)); lvl=3; h,r-ind=3,3
        [3,3]((1,7,10),(3,20,30),(3,20,29)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,10),(6,40,57),(6,41,57),(3,20,29)); lvl=4; h,r-ind=1,1
          [4,3]((3,20,29),(8,54,77),(6,40,57),(4,27,38)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((7,47,67),(8,54,77),(4,27,38)); lvl=6; h,r-ind=1,1
            [3,3]((6,40,57),(7,47,67),(4,27,38)); lvl=6; h,r-ind=1,1
            [3,3]((3,20,29),(6,40,57),(7,47,67)); lvl=6; h,r-ind=1,1
            [3,3]((3,20,29),(7,47,67),(8,54,77)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,10),(8,54,77),(4,27,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,10),(6,41,57),(4,27,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,10),(3,20,29),(8,54,77)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(1,7,10),(6,41,57)); lvl=4; h,r-ind=3,3; optimized-h
        [3,3]((1,7,11),(1,7,10),(3,20,30)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,7,11),(1,7,10)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(6,38,51),(1,6,6),(1,6,8)); lvl=2; h,r-ind=1,1
      [4,3]((2,13,15),(2,13,16),(1,6,7),(1,6,8)); lvl=3; h,r-ind=1,1
        [3,3]((3,19,23),(1,6,8),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,15),(3,19,23),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,16),(3,19,23),(1,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,15),(2,13,16),(3,19,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,17),(2,13,16),(1,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((6,38,51),(2,13,17),(1,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,13,17),(2,13,16)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((0,1,0),(2,13,15),(1,6,6),(1,6,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,7),(1,6,6),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,15),(1,7,7),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,13,15),(1,7,7)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,7,7),(1,6,6)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,13,15),(2,13,16)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,13,23),(0,1,0),(5,32,55)); lvl=1; h,r-ind=5,5; optimized-h
```

23.36 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,14,23)); lvl=0; h,r-ind=23,529
  [4,3]((1,3,4),(1,4,6),(1,0,0),(4,13,21)); lvl=1; h,r-ind=1,2
    [4,3]((3,7,11),(5,17,27),(4,13,21),(2,5,8)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,8),(11,32,51),(4,13,21),(3,10,16)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((5,15,24),(3,10,16),(11,32,51)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(5,15,24),(11,32,51)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,21),(5,15,24),(3,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(4,13,21),(5,15,24)); lvl=4; h,r-ind=1,1
      [4,3]((4,12,19),(6,17,27),(11,32,51),(3,10,16)); lvl=3; h,r-ind=1,1
        [3,3]((9,27,43),(6,17,27),(11,32,51)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,16),(9,27,43),(11,32,51)); lvl=4; h,r-ind=1,1
        [3,3]((4,12,19),(9,27,43),(6,17,27)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((3,10,16),(4,12,19),(9,27,43)); lvl=4; h,r-ind=1,1
    [3,3]((4,12,19),(5,17,27),(3,10,16)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,11),(4,12,19),(6,17,27)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,11),(6,17,27),(2,5,8),(11,32,51)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,27),(11,32,51),(8,22,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(11,32,51),(8,22,35)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,11),(6,17,27),(8,22,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(3,7,11),(8,22,35)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(4,13,21),(2,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,7,11),(2,5,8)); lvl=2; h,r-ind=1,1
  [4,3]((3,7,11),(1,2,3),(1,4,6),(5,17,27)); lvl=2; h,r-ind=1,1
    [4,3]((8,23,36),(1,2,3),(1,4,6),(2,7,11)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((1,2,3),(3,9,14),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(3,9,14),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((8,23,36),(2,7,11),(3,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((8,23,36),(1,2,3),(3,9,14)); lvl=4; h,r-ind=1,1
    [4,3]((5,14,22),(8,23,36),(4,12,19),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(8,23,36),(7,21,33)); lvl=4; h,r-ind=1,1
      [3,3]((5,14,22),(8,23,36),(7,21,33)); lvl=4; h,r-ind=1,1
      [3,3]((4,12,19),(5,14,22),(7,21,33)); lvl=4; h,r-ind=1,1
      [3,3]((4,12,19),(2,7,11),(7,21,33)); lvl=4; h,r-ind=1,1
    [3,3]((4,12,19),(5,17,27),(2,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,11),(5,14,22),(4,12,19)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,11),(5,14,22),(8,23,36),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((6,16,25),(5,14,22),(8,23,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(6,16,25),(8,23,36)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,11),(6,16,25),(5,14,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,11),(6,16,25)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,4),(1,2,3),(1,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,7,11),(1,2,3)); lvl=2; h,r-ind=1,1
[3,3]((2,8,13),(1,0,0),(4,13,21)); lvl=1; h,r-ind=1,1
[3,3]((2,14,23),(2,8,13),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
[6,3]((5,32,52),(2,13,21),(2,8,13),(2,10,15),(1,4,6),(4,13,21)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,8),(4,13,21),(5,17,27)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,5,8),(1,4,6),(5,17,27)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,5,8),(2,10,15),(1,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((4,23,36),(1,5,8),(2,10,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,13,21),(4,23,36),(1,5,8)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,5,8),(2,8,13),(4,13,21)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,8),(7,40,65),(2,8,13)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((5,32,52),(1,5,8),(7,40,65)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((5,32,52),(2,13,21),(1,5,8)); lvl=2; h,r-ind=1,1
[3,3]((2,14,23),(2,13,21),(1,7,11)); lvl=1; h,r-ind=1,1
[3,3]((2,14,23),(5,32,52),(2,8,13)); lvl=1; h,r-ind=6,6; optimized-h
[3,3]((2,14,23),(5,32,52),(2,13,21)); lvl=1; h,r-ind=1,1
[5,3]((2,10,15),(1,3,4),(1,4,6),(1,4,5),(1,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,9,13),(2,10,15),(1,4,6)); lvl=2; h,r-ind=1,1
  [4,3]((3,12,17),(2,9,13),(4,17,24),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,17,24),(2,9,13),(5,21,30)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,9,13),(5,21,30)); lvl=3; h,r-ind=1,1
    [3,3]((3,12,17),(4,17,24),(5,21,30)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(3,12,17),(5,21,30)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,4),(3,12,17),(1,4,6)); lvl=2; h,r-ind=1,1
  [5,3]((1,3,4),(3,12,17),(4,17,24),(3,13,18),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,17,24),(3,12,17),(2,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(3,12,17),(2,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,18),(4,17,24),(2,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(3,13,18),(2,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,5),(2,8,11)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,13),(1,5,7),(2,10,15)); lvl=2; h,r-ind=1,1
  [4,3]((2,9,13),(4,17,24),(3,13,18),(1,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,13,18),(4,17,24),(5,22,31)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,13),(4,17,24),(5,22,31)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,13),(5,22,31)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(3,13,18),(5,22,31)); lvl=3; h,r-ind=1,1
  [3,3]((3,13,18),(1,4,5),(1,5,7)); lvl=2; h,r-ind=1,1
[5,3]((1,4,5),(1,5,7),(1,6,6),(1,6,8),(1,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,6),(1,6,6),(1,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,6),(1,6,8),(1,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,7),(1,5,6),(1,6,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,6),(1,5,5),(1,6,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,5),(1,5,6),(1,5,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,7),(1,4,5),(1,5,6)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,6,6),(1,5,5)); lvl=1; h,r-ind=1,1
[4,3]((0,1,0),(1,7,11),(1,6,6),(1,6,8)); lvl=1; h,r-ind=1,1
  [4,3]((1,6,7),(1,7,10),(2,14,17),(1,6,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,8),(3,19,24),(1,7,9),(1,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,13,17),(1,7,9),(3,19,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(2,13,17),(3,19,24)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,7,10),(2,13,17),(1,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(1,7,10),(2,13,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(1,6,8),(3,19,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,7),(3,19,24),(1,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,7),(2,14,17),(1,7,9)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,6,6),(1,6,7),(2,14,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,13,14),(1,6,6),(1,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,13,14),(2,14,15),(1,7,8),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(2,14,15),(3,20,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,14),(2,14,15),(3,20,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,13,14),(3,20,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(1,7,8),(3,20,22)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,8),(2,14,17),(1,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,7,8),(2,14,17)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,14,15),(1,7,8)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(2,13,14),(2,14,15),(1,6,6)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,7,7),(2,14,15),(2,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(1,7,7),(2,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(1,7,7)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(2,14,15)); lvl=4; h,r-ind=1,1
  [3,3]((1,7,11),(1,7,10),(1,6,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,7,10),(2,14,17)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,7,11),(0,1,0),(1,7,10)); lvl=2; h,r-ind=1,1
[3,3]((2,14,23),(0,1,0),(1,7,11)); lvl=1; h,r-ind=1,1
[5,3]((2,13,21),(2,10,15),(1,5,7),(1,7,11),(1,6,8)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,7),(1,6,8),(1,6,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,7,11),(1,6,8),(1,6,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,13,21),(1,7,11),(1,6,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,10,15),(1,5,7),(1,6,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,10,15),(4,23,36),(1,6,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,13,21),(4,23,36),(1,6,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[4,3]((1,3,4),(1,4,5),(1,5,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,5),(6,20,25),(1,5,5),(2,5,5)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc
    [3,3]((3,10,12),(2,6,7),(6,19,23)); lvl=3; h,r-ind=1,1
    [5,3]((1,4,5),(7,25,30),(3,10,12),(6,20,25),(6,19,23)); lvl=3; h,r-ind=1,1
      [4,3]((7,23,28),(11,37,45),(3,10,12),(6,19,23)); lvl=4; h,r-ind=1,1
        [3,3]((11,37,45),(3,10,12),(10,33,40)); lvl=5; h,r-ind=1,1
        [3,3]((6,19,23),(3,10,12),(10,33,40)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,28),(11,37,45),(10,33,40)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,28),(6,19,23),(10,33,40)); lvl=5; h,r-ind=1,1
      [3,3]((7,23,28),(4,13,16),(6,19,23)); lvl=4; h,r-ind=1,1
      [4,3]((4,14,17),(11,37,45),(12,41,50),(3,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((15,51,62),(11,37,45),(12,41,50)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,17),(15,51,62),(12,41,50)); lvl=5; h,r-ind=1,1
        [3,3]((15,51,62),(3,10,12),(11,37,45)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,17),(15,51,62),(3,10,12)); lvl=5; h,r-ind=1,1
      [3,3]((7,25,30),(4,14,17),(3,10,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(7,25,30),(4,14,17)); lvl=4; h,r-ind=1,1
      [5,3]((9,31,38),(7,23,28),(4,13,16),(11,37,45),(12,41,50)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,16),(8,27,33),(9,31,38)); lvl=5; h,r-ind=1,1
        [3,3]((12,41,50),(8,27,33),(9,31,38)); lvl=5; h,r-ind=1,1
        [3,3]((11,37,45),(12,41,50),(8,27,33)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,28),(4,13,16),(8,27,33)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,28),(11,37,45),(8,27,33)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,5),(4,14,17),(9,31,38),(12,41,50)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,17),(12,41,50),(13,45,55)); lvl=5; h,r-ind=1,1
        [3,3]((9,31,38),(12,41,50),(13,45,55)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(4,14,17),(13,45,55)); lvl=5; h,r-ind=1,1
        [3,3]((9,31,38),(1,4,5),(13,45,55)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,5),(6,20,25),(9,31,38),(4,13,16)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((4,13,16),(6,20,25),(5,17,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(6,20,25),(5,17,21)); lvl=5; h,r-ind=1,1
        [3,3]((9,31,38),(4,13,16),(5,17,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(9,31,38),(5,17,21)); lvl=5; h,r-ind=1,1
    [5,3]((2,7,8),(7,25,30),(3,10,12),(1,3,3),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,10,12),(10,33,39)); lvl=4; h,r-ind=1,1
      [4,3]((6,21,25),(5,17,20),(3,10,12),(10,33,39)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((8,27,32),(5,17,20),(10,33,39)); lvl=5; h,r-ind=1,1
        [3,3]((8,27,32),(3,10,12),(10,33,39)); lvl=5; h,r-ind=1,1
        [3,3]((6,21,25),(8,27,32),(3,10,12)); lvl=5; h,r-ind=1,1
        [3,3]((6,21,25),(8,27,32),(5,17,20)); lvl=5; h,r-ind=1,1
      [3,3]((6,21,25),(7,25,30),(3,10,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,8),(6,21,25),(7,25,30)); lvl=4; h,r-ind=1,1
      [5,3]((8,27,31),(5,17,20),(1,3,3),(2,6,7),(10,33,39)); lvl=4; h,r-ind=1,1
        [4,3]((5,17,20),(9,30,35),(7,23,27),(11,36,42)); lvl=5; h,r-ind=1,1
          [3,3]((9,30,35),(11,36,42),(16,53,62)); lvl=6; h,r-ind=1,1
          [3,3]((7,23,27),(11,36,42),(16,53,62)); lvl=6; h,r-ind=1,1
          [3,3]((5,17,20),(9,30,35),(16,53,62)); lvl=6; h,r-ind=1,1
          [3,3]((7,23,27),(5,17,20),(16,53,62)); lvl=6; h,r-ind=1,1
        [3,3]((2,6,7),(7,23,27),(11,36,42)); lvl=5; h,r-ind=1,1
```

```
      [4,3]((10,33,38),(4,13,15),(9,30,35),(11,36,42)); lvl=5; h,r-ind=1,1
        [3,3]((4,13,15),(11,36,42),(13,43,50)); lvl=6; h,r-ind=1,1
        [3,3]((9,30,35),(11,36,42),(13,43,50)); lvl=6; h,r-ind=1,1
        [3,3]((10,33,38),(4,13,15),(13,43,50)); lvl=6; h,r-ind=1,1
        [3,3]((9,30,35),(10,33,38),(13,43,50)); lvl=6; h,r-ind=1,1
      [3,3]((2,6,7),(4,13,15),(11,36,42)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,3),(2,6,7),(4,13,15)); lvl=5; h,r-ind=1,1
      [4,3]((6,20,23),(5,17,20),(10,33,38),(9,30,35)); lvl=5; h,r-ind=1,1
        [3,3]((15,50,58),(9,30,35),(5,17,20)); lvl=6; h,r-ind=1,1
        [3,3]((6,20,23),(15,50,58),(5,17,20)); lvl=6; h,r-ind=1,1
        [3,3]((10,33,38),(6,20,23),(15,50,58)); lvl=6; h,r-ind=1,1
        [3,3]((10,33,38),(15,50,58),(9,30,35)); lvl=6; h,r-ind=1,1
      [3,3]((8,27,31),(6,20,23),(5,17,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,3),(10,33,38),(4,13,15)); lvl=5; h,r-ind=1,1
      [3,3]((6,20,23),(1,3,3),(10,33,38)); lvl=5; h,r-ind=1,1
      [3,3]((8,27,31),(6,20,23),(1,3,3)); lvl=5; h,r-ind=1,1
      [3,3]((5,17,20),(10,33,39),(7,23,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,7),(10,33,39),(7,23,27)); lvl=5; h,r-ind=1,1
    [3,3]((2,7,8),(8,27,31),(1,3,3)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,8),(6,21,25),(8,27,31),(5,17,20)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((6,21,25),(7,24,28),(5,17,20)); lvl=5; h,r-ind=1,1
      [3,3]((8,27,31),(7,24,28),(5,17,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,8),(8,27,31),(7,24,28)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,8),(6,21,25),(7,24,28)); lvl=5; h,r-ind=1,1
  [3,3]((1,3,3),(2,5,5),(2,6,7)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,7),(2,7,8),(1,3,3)); lvl=3; h,r-ind=1,1
  [5,3]((1,4,5),(1,5,5),(2,7,7),(2,7,8),(7,25,30)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,7),(6,22,25),(3,11,12),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((5,18,20),(3,11,12),(6,22,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,8),(5,18,20),(6,22,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,7),(5,18,20),(3,11,12)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,8),(2,7,7),(5,18,20)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,4),(2,7,7),(3,11,12)); lvl=4; h,r-ind=1,1
    [4,3]((3,11,13),(7,26,30),(6,22,25),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((9,33,38),(6,22,25),(7,26,30)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,13),(9,33,38),(7,26,30)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,8),(9,33,38),(6,22,25)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,13),(2,7,8),(9,33,38)); lvl=5; h,r-ind=1,1
    [3,3]((7,25,30),(3,11,13),(2,7,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(7,25,30),(3,11,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,5),(5,19,22),(3,11,13),(7,26,30)); lvl=4; h,r-ind=1,1
      [3,3]((5,19,22),(7,26,30),(8,30,35)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,13),(7,26,30),(8,30,35)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,5),(5,19,22),(8,30,35)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,13),(1,4,5),(8,30,35)); lvl=5; h,r-ind=1,1
    [5,3]((1,4,4),(5,19,22),(7,26,30),(6,22,25),(3,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((4,15,17),(7,26,30),(6,22,25)); lvl=5; h,r-ind=1,1
      [3,3]((4,15,17),(3,11,12),(6,22,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,4),(4,15,17),(3,11,12)); lvl=5; h,r-ind=1,1
      [3,3]((5,19,22),(1,4,4),(4,15,17)); lvl=5; h,r-ind=1,1
      [3,3]((5,19,22),(4,15,17),(7,26,30)); lvl=5; h,r-ind=1,1
    [4,3]((1,5,5),(1,4,5),(1,4,4),(5,19,22)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((2,8,9),(5,19,22),(1,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,5),(2,8,9),(1,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,9),(1,4,4),(5,19,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,5),(2,8,9),(1,4,4)); lvl=5; h,r-ind=1,1
[4,3]((1,3,4),(1,0,0),(6,20,25),(2,5,5)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc
  [3,3]((1,2,2),(2,3,3),(2,5,6)); lvl=3; h,r-ind=1,1
  [5,3]((1,3,4),(7,20,25),(1,0,0),(2,3,3),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(3,6,7),(2,3,3)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,6),(6,14,17),(3,6,7),(2,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,13),(3,6,7),(6,14,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,6),(5,11,13),(6,14,17)); lvl=5; h,r-ind=1,1
      [3,3]((5,11,13),(2,3,3),(3,6,7)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,6),(5,11,13),(2,3,3)); lvl=5; h,r-ind=1,1
    [4,3]((7,17,21),(3,8,10),(2,5,6),(6,14,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,10),(2,5,6),(9,22,27)); lvl=5; h,r-ind=1,1
      [3,3]((6,14,17),(2,5,6),(9,22,27)); lvl=5; h,r-ind=1,1
      [3,3]((7,17,21),(3,8,10),(9,22,27)); lvl=5; h,r-ind=1,1
      [3,3]((6,14,17),(7,17,21),(9,22,27)); lvl=5; h,r-ind=1,1
    [3,3]((3,8,10),(7,20,25),(2,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(3,8,10),(7,20,25)); lvl=4; h,r-ind=1,1
    [5,3]((7,17,21),(6,14,17),(1,1,1),(5,12,15),(3,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,7),(4,9,11),(6,14,17)); lvl=5; h,r-ind=1,1
      [3,3]((7,17,21),(4,9,11),(6,14,17)); lvl=5; h,r-ind=1,1
      [3,3]((7,17,21),(5,12,15),(4,9,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,1),(3,6,7),(4,9,11)); lvl=5; h,r-ind=1,1
      [3,3]((5,12,15),(1,1,1),(4,9,11)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,4),(7,17,21),(3,8,10),(5,12,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,10),(7,17,21),(8,20,25)); lvl=5; h,r-ind=1,1
```

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      [3,3]((5,12,15),(7,17,21),(8,20,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,10),(8,20,25)); lvl=5; h,r-ind=1,1
      [3,3]((5,12,15),(1,3,4),(8,20,25)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,4),(1,1,1),(1,0,0),(5,12,15)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((2,4,5),(1,0,0),(1,1,1)); lvl=5; h,r-ind=1,1
      [3,3]((5,12,15),(2,4,5),(1,1,1)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(5,12,15),(2,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(2,4,5),(1,0,0)); lvl=5; h,r-ind=1,1
  [5,3]((2,6,7),(3,9,11),(7,20,25),(1,2,2),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((7,20,25),(6,17,21),(2,5,6)); lvl=4; h,r-ind=1,1
    [4,3]((5,14,17),(8,21,25),(6,17,21),(2,5,6)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((7,19,23),(2,5,6),(8,21,25)); lvl=5; h,r-ind=1,1
      [3,3]((5,14,17),(7,19,23),(8,21,25)); lvl=5; h,r-ind=1,1
      [3,3]((6,17,21),(7,19,23),(2,5,6)); lvl=5; h,r-ind=1,1
      [3,3]((5,14,17),(6,17,21),(7,19,23)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,2),(8,21,25),(2,5,6)); lvl=4; h,r-ind=1,1
    [5,3]((2,6,7),(10,29,35),(5,14,17),(1,2,2),(8,21,25)); lvl=4; h,r-ind=1,1
      [3,3]((6,16,19),(5,14,17),(8,21,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,2),(6,16,19),(8,21,25)); lvl=5; h,r-ind=1,1
      [4,3]((6,16,19),(10,27,32),(9,25,30),(5,14,17)); lvl=5; h,r-ind=1,1
        [3,3]((15,41,49),(9,25,30),(10,27,32)); lvl=6; h,r-ind=1,1
        [3,3]((6,16,19),(15,41,49),(10,27,32)); lvl=6; h,r-ind=1,1
        [3,3]((5,14,17),(6,16,19),(15,41,49)); lvl=6; h,r-ind=1,1
        [3,3]((5,14,17),(15,41,49),(9,25,30)); lvl=6; h,r-ind=1,1
      [4,3]((11,31,37),(7,20,24),(9,25,30),(5,14,17)); lvl=5; h,r-ind=1,1
        [3,3]((16,45,54),(5,14,17),(7,20,24)); lvl=6; h,r-ind=1,1
        [3,3]((11,31,37),(16,45,54),(7,20,24)); lvl=6; h,r-ind=1,1
        [3,3]((9,25,30),(16,45,54),(5,14,17)); lvl=6; h,r-ind=1,1
        [3,3]((11,31,37),(9,25,30),(16,45,54)); lvl=6; h,r-ind=1,1
      [3,3]((10,29,35),(7,20,24),(5,14,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,7),(10,29,35),(7,20,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,2),(6,16,19),(10,27,32)); lvl=5; h,r-ind=1,1
      [3,3]((4,11,13),(1,2,2),(10,27,32)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,7),(4,11,13),(1,2,2)); lvl=5; h,r-ind=1,1
      [4,3]((11,31,37),(4,11,13),(10,27,32),(9,25,30)); lvl=5; h,r-ind=1,1
        [3,3]((13,36,43),(4,11,13),(10,27,32)); lvl=6; h,r-ind=1,1
        [3,3]((9,25,30),(13,36,43),(10,27,32)); lvl=6; h,r-ind=1,1
        [3,3]((11,31,37),(13,36,43),(4,11,13)); lvl=6; h,r-ind=1,1
        [3,3]((9,25,30),(11,31,37),(13,36,43)); lvl=6; h,r-ind=1,1
      [3,3]((2,6,7),(11,31,37),(7,20,24)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,7),(11,31,37),(4,11,13)); lvl=5; h,r-ind=1,1
    [3,3]((3,9,11),(2,6,7),(10,29,35)); lvl=4; h,r-ind=1,1
    [4,3]((3,9,11),(10,29,35),(5,14,17),(6,17,21)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((8,23,28),(10,29,35),(5,14,17)); lvl=5; h,r-ind=1,1
      [3,3]((6,17,21),(8,23,28),(5,14,17)); lvl=5; h,r-ind=1,1
      [3,3]((3,9,11),(6,17,21),(8,23,28)); lvl=5; h,r-ind=1,1
      [3,3]((3,9,11),(8,23,28),(10,29,35)); lvl=5; h,r-ind=1,1
    [3,3]((3,9,11),(7,20,25),(6,17,21)); lvl=4; h,r-ind=1,1
  [3,3]((2,6,7),(2,5,5),(1,2,2)); lvl=3; h,r-ind=1,1
  [3,3]((2,6,7),(6,19,23),(3,9,11)); lvl=3; h,r-ind=1,1
  [5,3]((1,3,4),(6,20,25),(6,19,23),(3,9,11),(7,20,25)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(9,28,35),(4,13,16),(6,20,25)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((5,16,20),(4,13,16),(9,28,35)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(5,16,20),(9,28,35)); lvl=5; h,r-ind=1,1
      [3,3]((6,20,25),(5,16,20),(4,13,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(6,20,25),(5,16,20)); lvl=5; h,r-ind=1,1
    [5,3]((9,28,35),(4,13,16),(7,22,27),(12,37,46),(11,34,42)); lvl=4; h,r-ind=1,1
      [3,3]((8,25,31),(7,22,27),(11,34,42)); lvl=5; h,r-ind=1,1
      [3,3]((8,25,31),(12,37,46),(11,34,42)); lvl=5; h,r-ind=1,1
      [3,3]((9,28,35),(8,25,31),(12,37,46)); lvl=5; h,r-ind=1,1
      [3,3]((4,13,16),(8,25,31),(7,22,27)); lvl=5; h,r-ind=1,1
      [3,3]((9,28,35),(4,13,16),(8,25,31)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,4),(9,28,35),(4,12,15),(12,37,46)); lvl=4; h,r-ind=1,1
      [3,3]((9,28,35),(12,37,46),(13,40,50)); lvl=5; h,r-ind=1,1
      [3,3]((4,12,15),(12,37,46),(13,40,50)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(9,28,35),(13,40,50)); lvl=5; h,r-ind=1,1
      [3,3]((4,12,15),(1,3,4),(13,40,50)); lvl=5; h,r-ind=1,1
    [3,3]((4,13,16),(7,22,27),(6,19,23)); lvl=4; h,r-ind=1,1
    [4,3]((7,22,27),(11,34,42),(6,19,23),(3,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,9,11),(10,31,38),(11,34,42)); lvl=5; h,r-ind=1,1
      [3,3]((7,22,27),(10,31,38),(11,34,42)); lvl=5; h,r-ind=1,1
      [3,3]((6,19,23),(7,22,27),(10,31,38)); lvl=5; h,r-ind=1,1
      [3,3]((6,19,23),(3,9,11),(10,31,38)); lvl=5; h,r-ind=1,1
    [4,3]((4,12,15),(12,37,46),(11,34,42),(3,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((12,37,46),(11,34,42),(15,46,57)); lvl=5; h,r-ind=1,1
      [3,3]((3,9,11),(11,34,42),(15,46,57)); lvl=5; h,r-ind=1,1
      [3,3]((4,12,15),(12,37,46),(15,46,57)); lvl=5; h,r-ind=1,1
      [3,3]((3,9,11),(4,12,15),(15,46,57)); lvl=5; h,r-ind=1,1
    [3,3]((7,20,25),(4,12,15),(3,9,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(7,20,25),(4,12,15)); lvl=4; h,r-ind=1,1
```

```
    [3,3]((1,3,4),(1,4,5),(6,20,25)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,5),(1,0,0)); lvl=1; h,r-ind=5,5; optimized-h
```

23.37 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,15,23)); lvl=0; h,r-ind=23,529
  [3,3]((2,3,4),(1,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,4),(2,7,8),(2,3,4),(1,0,0)); lvl=1; h,r-ind=4,1
    [4,3]((1,2,2),(1,0,0),(2,5,6),(2,3,4)); lvl=2; h,r-ind=2,1
      [4,3]((1,1,1),(2,4,5),(1,0,0),(2,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,4),(2,4,5),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(2,4,5),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(1,1,1),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,2),(1,1,1),(2,5,6),(2,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,1),(2,4,5),(3,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(2,4,5),(3,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,1,1),(3,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(1,2,2),(3,6,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,4),(1,2,2),(2,7,8),(2,5,6)); lvl=2; h,r-ind=2,1
      [4,3]((1,3,3),(1,2,2),(2,6,7),(2,5,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,2),(2,5,6),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(2,5,6),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(3,8,9)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,8),(1,4,4),(1,3,3),(2,6,7)); lvl=3; h,r-ind=1,1
        [3,3]((3,10,11),(1,3,3),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(3,10,11),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(3,10,11),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(2,6,7),(3,10,11)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(1,0,0)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((0,1,0),(1,4,4),(1,6,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,15,23),(1,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((2,7,8),(1,4,5),(2,3,4),(1,2,3),(1,4,6)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(2,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(1,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,6),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,6),(2,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,7,8),(1,3,4),(2,5,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,7,8),(1,4,5),(1,3,4)); lvl=2; h,r-ind=1,1
  [5,3]((1,4,4),(1,6,6),(1,6,7),(2,7,8),(1,4,5)); lvl=1; h,r-ind=1,1
    [4,3]((2,8,9),(4,19,21),(1,5,6),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,10),(4,19,21),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(4,18,21),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(4,18,21),(1,5,6)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,10),(2,8,9),(1,4,5),(4,18,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,5),(3,13,15),(2,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(3,13,15),(2,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,21),(1,4,5),(3,13,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(4,18,21),(3,13,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,8),(2,8,9),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,4),(2,7,8),(2,8,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,5),(1,4,4),(2,8,9),(4,19,21)); lvl=2; h,r-ind=1,1
      [4,3]((2,9,10),(1,4,4),(2,8,9),(4,18,19)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,14),(1,4,4),(2,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(3,13,14),(2,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,19),(3,13,14),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(4,18,19),(3,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(2,9,10),(4,18,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(2,9,10),(4,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,4,4),(4,18,19)); lvl=3; h,r-ind=1,1
    [5,3]((1,6,6),(1,5,5),(4,19,21),(1,6,7),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,10,11),(4,19,21),(1,5,6)); lvl=3; h,r-ind=1,1
      [4,3]((3,16,18),(2,10,11),(4,21,23),(1,5,6)); lvl=3; h,r-ind=1,1
        [3,3]((2,10,11),(4,21,23),(5,26,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,18),(4,21,23),(5,26,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(3,16,18),(5,26,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,10,11),(5,26,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(3,16,18),(1,5,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,5),(2,10,11),(4,21,23),(3,16,17)); lvl=3; h,r-ind=1,1
        [3,3]((2,10,11),(4,21,23),(5,26,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,17),(4,21,23),(5,26,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(2,10,11),(5,26,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,17),(1,5,5),(5,26,28)); lvl=4; h,r-ind=1,1
      [5,3]((1,6,6),(1,6,7),(3,16,18),(4,21,23),(3,16,17)); lvl=3; h,r-ind=1,1
        [3,3]((3,16,18),(1,6,7),(2,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(1,6,7),(2,11,12)); lvl=4; h,r-ind=1,1
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      [3,3]((4,21,23),(3,16,18),(2,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,17),(4,21,23),(2,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(3,16,17),(2,11,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,5),(2,10,11),(4,19,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,5),(1,6,6),(3,16,17)); lvl=3; h,r-ind=1,1
[4,3]((3,22,33),(0,1,0),(1,6,6),(1,6,7)); lvl=1; h,r-ind=1,1
  [4,3]((3,19,21),(6,44,51),(1,6,6),(0,1,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [3,3]((2,15,16),(2,15,17),(0,1,0)); lvl=3; h,r-ind=2,2; optimized-h
    [4,3]((6,43,45),(4,29,31),(2,15,16),(0,1,0)); lvl=3; h,r-ind=2,1
      [3,3]((3,22,23),(2,15,16),(4,29,31)); lvl=4; h,r-ind=1,1
      [3,3]((5,36,38),(3,22,23),(4,29,31)); lvl=4; h,r-ind=1,1
      [4,3]((6,43,45),(5,36,38),(3,22,23),(6,44,45)); lvl=4; h,r-ind=1,1
        [3,3]((5,36,38),(12,87,91),(3,22,23)); lvl=5; h,r-ind=1,1
        [3,3]((4,29,30),(12,87,91),(3,22,23)); lvl=5; h,r-ind=1,1
        [3,3]((4,29,30),(6,44,45),(3,22,23)); lvl=5; h,r-ind=1,1
        [4,3]((6,43,45),(4,29,30),(5,36,38),(12,87,91)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((9,65,68),(4,29,30),(12,87,91)); lvl=6; h,r-ind=1,1
          [3,3]((9,65,68),(5,36,38),(12,87,91)); lvl=6; h,r-ind=1,1
          [3,3]((6,43,45),(9,65,68),(5,36,38)); lvl=6; h,r-ind=1,1
          [3,3]((6,43,45),(9,65,68),(4,29,30)); lvl=6; h,r-ind=1,1
      [3,3]((3,22,23),(1,8,8),(2,15,16)); lvl=4; h,r-ind=1,1
      [4,3]((3,22,23),(6,44,45),(1,8,8),(0,1,0)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,8),(6,45,46),(2,15,15),(0,1,0)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,23,23),(2,15,15),(6,45,46)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,8),(3,23,23),(6,45,46)); lvl=6; h,r-ind=1,1
          [3,3]((0,1,0),(3,23,23),(2,15,15)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,8),(0,1,0),(3,23,23)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,23),(1,8,8),(6,45,46)); lvl=5; h,r-ind=1,1
        [3,3]((3,22,23),(6,45,46),(2,15,15)); lvl=5; h,r-ind=1,1
        [3,3]((3,22,23),(6,44,45),(2,15,15)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,6),(6,43,45),(3,20,21),(0,1,0)); lvl=3; h,r-ind=3,3
      [4,3]((3,21,22),(6,43,45),(1,7,7),(6,44,45)); lvl=4; h,r-ind=1,1
        [4,3]((3,21,22),(8,57,59),(4,29,30),(6,43,45)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((7,50,52),(8,57,59),(4,29,30)); lvl=6; h,r-ind=1,1
          [3,3]((6,43,45),(7,50,52),(4,29,30)); lvl=6; h,r-ind=1,1
          [3,3]((3,21,22),(6,43,45),(7,50,52)); lvl=6; h,r-ind=1,1
          [3,3]((3,21,22),(7,50,52),(8,57,59)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,7),(3,21,22),(8,57,59)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,7),(8,57,59),(4,29,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,7),(6,44,45),(4,29,30)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(6,44,45)); lvl=4; h,r-ind=3,3; optimized-h
      [3,3]((1,6,6),(0,1,0),(1,7,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,21),(3,21,22),(1,7,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,21),(1,6,6),(1,7,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,8),(6,43,45),(3,20,21),(4,29,31)); lvl=3; h,r-ind=2,2
      [3,3]((3,20,21),(2,14,15),(3,21,22)); lvl=4; h,r-ind=1,1
      [4,3]((5,36,38),(6,43,45),(2,14,15),(3,21,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,21,22),(2,14,15),(8,57,60)); lvl=5; h,r-ind=1,1
        [3,3]((5,36,38),(2,14,15),(8,57,60)); lvl=5; h,r-ind=1,1
        [3,3]((6,43,45),(5,36,38),(8,57,60)); lvl=5; h,r-ind=1,1
        [3,3]((6,43,45),(3,21,22),(8,57,60)); lvl=5; h,r-ind=1,1
      [3,3]((4,29,31),(5,36,38),(2,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(4,29,31),(2,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(3,20,21),(2,14,15)); lvl=4; h,r-ind=1,1
    [4,3]((3,19,21),(1,6,6),(1,7,8),(3,20,21)); lvl=3; h,r-ind=1,3
      [3,3]((1,6,6),(3,20,21),(2,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(3,20,21),(2,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,21),(1,6,6),(2,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(3,19,21),(2,13,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,8),(2,15,16),(2,15,17)); lvl=3; h,r-ind=1,1
    [3,3]((6,44,51),(1,7,8),(2,15,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,8),(4,29,31),(2,15,16)); lvl=3; h,r-ind=1,1
  [4,3]((2,15,20),(3,22,29),(6,44,51),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((3,22,26),(2,15,18),(3,22,27)); lvl=3; h,r-ind=1,1
    [4,3]((2,15,19),(3,22,29),(2,15,18),(3,22,27)); lvl=3; h,r-ind=1,1
      [4,3]((7,52,65),(2,15,18),(3,22,28),(3,22,27)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,22,28),(3,22,27),(5,37,46)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,18),(3,22,27),(5,37,46)); lvl=5; h,r-ind=1,1
        [3,3]((7,52,65),(2,15,18),(5,37,46)); lvl=5; h,r-ind=1,1
        [3,3]((7,52,65),(3,22,28),(5,37,46)); lvl=5; h,r-ind=1,1
      [4,3]((2,15,19),(7,52,65),(3,22,29),(3,22,28)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,22,29),(5,37,47),(3,22,28)); lvl=5; h,r-ind=1,1
        [3,3]((7,52,65),(5,37,47),(3,22,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,19),(7,52,65),(5,37,47)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,19),(3,22,29),(5,37,47)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,19),(7,52,65),(2,15,18)); lvl=4; h,r-ind=1,1
    [4,3]((2,15,19),(3,23,27),(3,23,28),(2,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,23,27),(3,23,28),(5,38,46)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,19),(3,23,28),(5,38,46)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,18),(2,15,19),(5,38,46)); lvl=4; h,r-ind=1,1
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      [3,3]((2,15,18),(3,23,27),(5,38,46)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(1,8,10),(3,23,27),(3,23,28)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,9),(5,39,47),(3,23,27),(3,23,28)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,31,37),(3,23,27),(3,23,28)); lvl=5; h,r-ind=1,1
        [3,3]((5,39,47),(4,31,37),(3,23,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(5,39,47),(4,31,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(4,31,37),(3,23,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,10),(5,39,47),(3,23,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,9),(1,8,10),(5,39,47)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,9),(1,8,10)); lvl=4; h,r-ind=1,1
    [4,3]((2,15,20),(2,15,19),(1,8,10),(3,23,28)); lvl=3; h,r-ind=1,1
      [3,3]((3,23,29),(3,23,28),(2,15,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,20),(3,23,29),(2,15,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,29),(1,8,10),(3,23,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,20),(3,23,29),(1,8,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,20),(2,15,19),(3,22,29)); lvl=3; h,r-ind=1,1
    [4,3]((3,23,27),(2,15,17),(3,22,26),(2,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,17),(4,30,35),(3,22,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,18),(4,30,35),(3,22,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,27),(2,15,18),(4,30,35)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,27),(2,15,17),(4,30,35)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(3,23,27),(2,15,17)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,15,17),(6,44,51),(3,22,26)); lvl=3; h,r-ind=1,1
  [4,3]((3,23,33),(2,15,21),(2,15,20),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((2,15,21),(2,15,20),(3,23,31),(6,46,63)); lvl=3; h,r-ind=1,1
      [3,3]((5,38,52),(2,15,20),(3,23,31)); lvl=4; h,r-ind=1,1
      [3,3]((6,46,63),(5,38,52),(3,23,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,21),(6,46,63),(5,38,52)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,21),(5,38,52),(2,15,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,11),(1,8,10),(3,23,31),(6,46,63)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,10),(4,31,42),(3,23,31)); lvl=4; h,r-ind=1,1
      [3,3]((6,46,63),(4,31,42),(3,23,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,11),(6,46,63),(4,31,42)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,11),(1,8,10),(4,31,42)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,11),(0,1,0),(1,8,10)); lvl=3; h,r-ind=1,1
    [4,3]((3,23,33),(1,8,11),(2,15,21),(6,46,63)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((1,8,11),(3,23,32),(6,46,63)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,21),(3,23,32),(6,46,63)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,33),(2,15,21),(3,23,32)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,33),(1,8,11),(3,23,32)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,10),(2,15,20),(3,23,31)); lvl=3; h,r-ind=1,1
[3,3]((3,19,21),(1,6,7),(1,6,6)); lvl=2; h,r-ind=1,1
[5,3]((1,7,10),(3,22,29),(3,19,21),(6,44,51),(1,6,7)); lvl=2; h,r-ind=1,1
  [5,3]((3,22,27),(5,36,44),(3,21,26),(1,7,9),(3,22,29)); lvl=3; h,r-ind=1,1
    [5,3]((3,21,26),(12,86,107),(8,57,71),(9,65,80),(5,36,44)); lvl=4; h,r-ind=1,1
      [3,3]((3,21,26),(13,93,115),(6,43,53)); lvl=5; h,r-ind=1,1
      [4,3]((21,151,187),(9,65,80),(13,93,115),(6,43,53)); lvl=5; h,r-ind=1,1
        [4,3]((10,72,89),(9,65,80),(6,43,53),(39,280,346)); lvl=6; h,r-ind=1,3; alert-r-inc
          [3,3]((16,115,142),(9,65,80),(6,43,53)); lvl=7; h,r-ind=1,1
          [3,3]((39,280,346),(16,115,142),(6,43,53)); lvl=7; h,r-ind=1,1
          [3,3]((10,72,89),(39,280,346),(16,115,142)); lvl=7; h,r-ind=1,1
          [3,3]((10,72,89),(16,115,142),(9,65,80)); lvl=7; h,r-ind=1,1
        [4,3]((13,93,115),(23,165,204),(6,43,53),(39,280,346)); lvl=6; h,r-ind=1,1
          [3,3]((23,165,204),(39,280,346),(29,208,257)); lvl=7; h,r-ind=1,1
          [3,3]((6,43,53),(39,280,346),(29,208,257)); lvl=7; h,r-ind=1,1
          [3,3]((13,93,115),(23,165,204),(29,208,257)); lvl=7; h,r-ind=1,1
          [3,3]((6,43,53),(13,93,115),(29,208,257)); lvl=7; h,r-ind=1,1
        [3,3]((17,122,151),(13,93,115),(23,165,204)); lvl=6; h,r-ind=1,1
        [4,3]((17,122,151),(23,165,204),(10,72,89),(39,280,346)); lvl=6; h,r-ind=1,1
          [3,3]((33,237,293),(39,280,346),(23,165,204)); lvl=7; h,r-ind=1,1
          [3,3]((17,122,151),(33,237,293),(23,165,204)); lvl=7; h,r-ind=1,1
          [3,3]((33,237,293),(10,72,89),(39,280,346)); lvl=7; h,r-ind=1,1
          [3,3]((17,122,151),(33,237,293),(10,72,89)); lvl=7; h,r-ind=1,1
        [3,3]((21,151,187),(17,122,151),(10,72,89)); lvl=6; h,r-ind=1,1
      [3,3]((5,36,44),(9,65,80),(6,43,53)); lvl=5; h,r-ind=1,1
      [3,3]((5,36,44),(3,21,26),(6,43,53)); lvl=5; h,r-ind=1,1
      [3,3]((3,21,26),(7,50,62),(13,93,115)); lvl=5; h,r-ind=1,1
      [4,3]((12,86,107),(21,151,187),(7,50,62),(13,93,115)); lvl=5; h,r-ind=1,1
        [4,3]((11,79,98),(24,172,213),(42,301,373),(17,122,151)); lvl=6; h,r-ind=1,1
          [3,3]((35,251,311),(42,301,373),(24,172,213)); lvl=7; h,r-ind=1,1
          [3,3]((17,122,151),(35,251,311),(24,172,213)); lvl=7; h,r-ind=1,1
          [3,3]((11,79,98),(17,122,151),(35,251,311)); lvl=7; h,r-ind=1,1
          [3,3]((11,79,98),(35,251,311),(42,301,373)); lvl=7; h,r-ind=1,1
        [3,3]((11,79,98),(21,151,187),(17,122,151)); lvl=6; h,r-ind=1,1
        [3,3]((13,93,115),(24,172,213),(17,122,151)); lvl=6; h,r-ind=1,1
        [4,3]((7,50,62),(13,93,115),(24,172,213),(42,301,373)); lvl=6; h,r-ind=1,1
          [3,3]((13,93,115),(31,222,275),(24,172,213)); lvl=7; h,r-ind=1,1
          [3,3]((42,301,373),(31,222,275),(24,172,213)); lvl=7; h,r-ind=1,1
          [3,3]((7,50,62),(42,301,373),(31,222,275)); lvl=7; h,r-ind=1,1
          [3,3]((7,50,62),(13,93,115),(31,222,275)); lvl=7; h,r-ind=1,1
```

```
          [4,3]((12,86,107),(11,79,98),(7,50,62),(42,301,373)); lvl=6; h,r-ind=1,3; alert-r-inc
            [3,3]((11,79,98),(42,301,373),(18,129,160)); lvl=7; h,r-ind=1,1
            [3,3]((7,50,62),(42,301,373),(18,129,160)); lvl=7; h,r-ind=1,1
            [3,3]((12,86,107),(11,79,98),(18,129,160)); lvl=7; h,r-ind=1,1
            [3,3]((7,50,62),(12,86,107),(18,129,160)); lvl=7; h,r-ind=1,1
        [3,3]((8,57,71),(3,21,26),(7,50,62)); lvl=5; h,r-ind=1,1
        [3,3]((12,86,107),(8,57,71),(7,50,62)); lvl=5; h,r-ind=1,1
      [3,3]((3,22,27),(9,65,80),(5,36,44)); lvl=4; h,r-ind=1,1
      [4,3]((12,86,107),(8,57,71),(5,36,45),(1,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((13,93,116),(1,7,9),(8,57,71)); lvl=5; h,r-ind=1,1
        [3,3]((12,86,107),(13,93,116),(8,57,71)); lvl=5; h,r-ind=1,1
        [3,3]((5,36,45),(13,93,116),(1,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((12,86,107),(5,36,45),(13,93,116)); lvl=5; h,r-ind=1,1
      [4,3]((3,22,29),(3,22,28),(5,36,45),(1,7,9)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,22,28),(5,36,45),(4,29,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(5,36,45),(4,29,37)); lvl=5; h,r-ind=1,1
        [3,3]((3,22,29),(1,7,9),(4,29,37)); lvl=5; h,r-ind=1,1
        [3,3]((3,22,29),(3,22,28),(4,29,37)); lvl=5; h,r-ind=1,1
      [3,3]((3,21,26),(8,57,71),(1,7,9)); lvl=4; h,r-ind=1,1
      [4,3]((3,22,27),(12,86,107),(9,65,80),(5,36,45)); lvl=4; h,r-ind=1,1
        [4,3]((4,29,36),(3,22,27),(9,65,80),(21,151,187)); lvl=5; h,r-ind=1,1
          [4,3]((3,22,27),(17,123,152),(10,72,89),(9,65,80)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((13,94,116),(10,72,89),(17,123,152)); lvl=7; h,r-ind=1,1
            [3,3]((3,22,27),(13,94,116),(17,123,152)); lvl=7; h,r-ind=1,1
            [3,3]((9,65,80),(13,94,116),(10,72,89)); lvl=7; h,r-ind=1,1
            [3,3]((3,22,27),(9,65,80),(13,94,116)); lvl=7; h,r-ind=1,1
          [3,3]((4,29,36),(3,22,27),(17,123,152)); lvl=6; h,r-ind=1,1
          [3,3]((4,29,36),(17,123,152),(10,72,89)); lvl=6; h,r-ind=1,1
          [3,3]((4,29,36),(21,151,187),(10,72,89)); lvl=6; h,r-ind=1,1
        [4,3]((5,36,45),(4,29,36),(12,86,107),(21,151,187)); lvl=5; h,r-ind=1,1
          [3,3]((4,29,36),(11,79,98),(21,151,187)); lvl=6; h,r-ind=1,1
          [3,3]((4,29,36),(11,79,98),(20,144,179)); lvl=6; h,r-ind=1,1
          [3,3]((5,36,45),(4,29,36),(20,144,179)); lvl=6; h,r-ind=1,1
          [4,3]((5,36,45),(12,86,107),(11,79,98),(20,144,179)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((16,115,143),(11,79,98),(12,86,107)); lvl=7; h,r-ind=1,1
            [3,3]((5,36,45),(16,115,143),(12,86,107)); lvl=7; h,r-ind=1,1
            [3,3]((20,144,179),(16,115,143),(11,79,98)); lvl=7; h,r-ind=1,1
            [3,3]((5,36,45),(20,144,179),(16,115,143)); lvl=7; h,r-ind=1,1
        [3,3]((3,22,27),(3,22,28),(5,36,45)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,7,10),(1,7,9),(3,22,29)); lvl=3; h,r-ind=1,1
    [4,3]((3,22,26),(5,36,44),(3,21,26),(1,7,8)); lvl=3; h,r-ind=2,1; alert-h-inc
      [4,3]((4,29,35),(5,36,44),(3,21,26),(2,14,17)); lvl=4; h,r-ind=1,1
        [3,3]((7,50,61),(3,21,26),(5,36,44)); lvl=5; h,r-ind=1,1
        [3,3]((4,29,35),(7,50,61),(5,36,44)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,17),(4,29,35),(7,50,61)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,17),(7,50,61),(3,21,26)); lvl=5; h,r-ind=1,1
      [4,3]((3,22,26),(1,7,8),(4,29,35),(2,14,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,36,43),(2,14,17),(1,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((3,22,26),(5,36,43),(1,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((4,29,35),(5,36,43),(2,14,17)); lvl=5; h,r-ind=1,1
        [3,3]((3,22,26),(4,29,35),(5,36,43)); lvl=5; h,r-ind=1,1
    [3,3]((3,21,26),(1,7,8),(3,20,24)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,6,7),(3,19,21),(1,7,8),(3,20,24)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,13,15),(1,7,8),(3,19,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,13,15),(3,19,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,15),(3,20,24),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,13,15),(3,20,24)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,7),(3,21,26),(1,7,9),(3,20,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(3,21,26),(4,27,33)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,24),(3,21,26),(4,27,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(1,7,9),(4,27,33)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,24),(1,6,7),(4,27,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(1,6,7),(1,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,22,26),(3,22,27),(5,36,44)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((6,44,51),(3,22,26),(1,7,8)); lvl=3; h,r-ind=1,1
  [4,3]((2,15,21),(2,15,20),(1,7,10),(3,22,29)); lvl=2; h,r-ind=1,1
    [3,3]((3,22,30),(2,15,20),(3,22,29)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,10),(3,22,30),(3,22,29)); lvl=3; h,r-ind=1,1
    [3,3]((2,15,21),(3,22,30),(2,15,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,10),(2,15,21),(3,22,30)); lvl=3; h,r-ind=1,1
  [4,3]((3,22,33),(3,23,33),(2,15,21),(1,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((2,15,22),(5,37,53),(3,23,33),(2,15,21)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,37,53),(4,30,43),(2,15,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,33),(4,30,43),(2,15,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,22),(3,23,33),(4,30,43)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,22),(5,37,53),(4,30,43)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(5,37,53),(2,15,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,15,22),(1,7,10),(5,37,53)); lvl=3; h,r-ind=1,1
    [3,3]((3,22,33),(2,15,22),(1,7,10)); lvl=3; h,r-ind=1,1
[3,3]((2,15,23),(3,22,33),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
```

```
  [4,3]((3,22,33),(1,6,7),(1,4,5),(1,4,6)); lvl=1; h,r-ind=2,2
    [4,3]((1,5,6),(1,5,7),(2,11,15),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,15),(2,10,13),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,10,13),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,5),(2,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,11,15),(2,10,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,5,7),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,7),(2,11,15),(3,18,25),(2,12,17)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,15),(3,18,25),(4,23,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,17),(3,18,25),(4,23,32)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,15),(4,23,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,17),(1,5,7),(4,23,32)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(1,6,9),(1,5,7),(2,12,17)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,16),(1,6,9),(2,12,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,16),(1,5,7),(2,12,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,11,16),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,11,16),(1,6,9)); lvl=3; h,r-ind=1,1
    [4,3]((3,20,30),(1,6,9),(2,13,19),(2,12,17)); lvl=2; h,r-ind=1,1
      [3,3]((3,19,28),(2,12,17),(1,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,20,30),(3,19,28),(1,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,19,28),(2,13,19),(2,12,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,20,30),(3,19,28),(2,13,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,10),(3,18,25),(2,13,19),(2,12,17)); lvl=2; h,r-ind=1,1
      [3,3]((3,19,27),(2,12,17),(3,18,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,10),(3,19,27),(3,18,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,19),(1,7,10),(3,19,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,19),(3,19,27),(2,12,17)); lvl=3; h,r-ind=1,1
    [4,3]((3,22,33),(3,20,30),(1,7,10),(2,13,19)); lvl=2; h,r-ind=1,1
      [4,3]((2,14,21),(5,34,50),(2,13,19),(3,20,30)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,19),(4,27,40),(5,34,50)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,21),(4,27,40),(5,34,50)); lvl=4; h,r-ind=1,1
        [3,3]((3,20,30),(2,14,21),(4,27,40)); lvl=4; h,r-ind=1,1
        [3,3]((3,20,30),(2,13,19),(4,27,40)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,10),(5,34,50),(2,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,14,21),(1,7,10),(5,34,50)); lvl=3; h,r-ind=1,1
      [3,3]((2,14,21),(3,22,33),(1,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,7),(1,5,6),(2,11,15),(3,18,25)); lvl=2; h,r-ind=2,2
      [3,3]((1,5,6),(2,11,15),(4,22,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,15),(4,22,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(3,18,25),(2,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(1,5,6),(4,22,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,8),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,10),(1,6,7),(3,18,25)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,15,23),(3,22,33),(1,4,6)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((2,15,23),(1,2,3),(1,4,6)); lvl=1; h,r-ind=1,1
```

23.38 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,16,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,0,0),(2,8,11),(1,4,4)); lvl=1; h,r-ind=12,12; optimized-h
  [5,3]((1,7,10),(2,15,21),(1,6,6),(2,8,11),(1,4,4)); lvl=1; h,r-ind=3,1
    [5,3]((1,4,5),(1,4,4),(1,5,5),(2,11,14),(4,23,29)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,6),(4,23,29),(5,28,34)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,5,6),(1,5,5),(5,28,34)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,5,6),(1,4,4),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,6),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,11,14),(4,23,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,6),(2,11,14)); lvl=3; h,r-ind=1,1
    [6,3]((1,7,10),(1,5,7),(3,20,27),(3,18,23),(2,11,14),(4,23,29)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,14),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,10),(1,6,8),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,10),(1,6,8),(3,20,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,14),(4,23,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(4,23,29),(3,18,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(3,19,25),(3,18,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(3,20,27),(3,19,25)); lvl=3; h,r-ind=1,1
    [4,3]((2,12,15),(1,6,6),(1,5,5),(4,23,29)); lvl=2; h,r-ind=3,1
      [3,3]((1,6,7),(1,5,5),(5,28,34)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((2,12,15),(4,23,29),(1,6,7),(5,28,34)); lvl=3; h,r-ind=1,1
        [4,3]((2,12,15),(6,35,43),(3,17,21),(4,23,29)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,17,21),(5,29,36),(6,35,43)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,15),(5,29,36),(6,35,43)); lvl=5; h,r-ind=1,1
          [3,3]((4,23,29),(2,12,15),(5,29,36)); lvl=5; h,r-ind=1,1
          [3,3]((4,23,29),(3,17,21),(5,29,36)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(2,12,15),(6,35,43)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(6,35,43),(3,17,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(5,28,34),(3,17,21)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,6,7),(1,6,6),(1,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,12,15),(3,18,23),(4,23,29)); lvl=2; h,r-ind=1,1
    [5,3]((2,14,19),(3,20,27),(1,7,9),(2,12,15),(3,18,23)); lvl=2; h,r-ind=1,1
      [3,3]((3,19,25),(2,13,17),(3,20,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,14,19),(2,13,17),(3,20,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,14,19),(1,7,9),(2,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,18,23),(3,19,25),(2,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,15),(3,18,23),(2,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(2,12,15),(2,13,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,15,21),(2,14,19),(1,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,10),(2,15,21),(2,14,19),(3,20,27)); lvl=2; h,r-ind=1,1
      [3,3]((3,21,29),(2,15,21),(2,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,20,27),(3,21,29),(2,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,10),(3,20,27),(3,21,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,10),(3,21,29),(2,15,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,9),(2,12,15),(1,6,6)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((1,5,7),(1,4,5),(2,11,14)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,5,7),(2,8,11),(1,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,6),(1,4,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,16,23),(1,7,10),(2,15,21)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,8,11),(2,15,21),(1,6,6)); lvl=1; h,r-ind=1,1
    [4,3]((2,15,20),(3,23,30),(1,8,11),(2,15,21)); lvl=2; h,r-ind=1,1
      [3,3]((1,8,11),(3,23,31),(3,23,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,20),(3,23,31),(3,23,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,21),(2,15,20),(3,23,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,21),(1,8,11),(3,23,31)); lvl=3; h,r-ind=1,1
    [3,3]((2,15,20),(1,7,9),(2,15,21)); lvl=2; h,r-ind=1,1
    [5,3]((3,23,28),(2,15,18),(2,15,20),(3,23,30),(1,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,7,9),(2,15,18),(2,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,23,28),(2,15,18),(2,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,23,28),(3,23,29),(2,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,23,29),(3,23,30),(2,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,20),(1,7,9),(2,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,20),(3,23,30),(2,15,19)); lvl=3; h,r-ind=1,1
    [4,3]((4,30,33),(2,15,18),(1,6,6),(1,7,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((1,7,8),(2,15,18),(1,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(1,7,8),(1,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(2,15,17),(2,15,18)); lvl=3; h,r-ind=1,1
      [4,3]((4,30,33),(5,36,39),(1,7,8),(2,15,17)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,8),(3,22,24),(5,36,39)); lvl=4; h,r-ind=1,1
        [3,3]((6,44,49),(1,7,8),(3,22,24)); lvl=4; h,r-ind=1,1
        [4,3]((4,30,33),(6,44,49),(2,15,17),(3,22,24)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,37,41),(2,15,17),(6,44,49)); lvl=5; h,r-ind=1,1
          [3,3]((5,37,41),(3,22,24),(6,44,49)); lvl=5; h,r-ind=1,1
          [3,3]((4,30,33),(5,37,41),(3,22,24)); lvl=5; h,r-ind=1,1
          [3,3]((4,30,33),(5,37,41),(2,15,17)); lvl=5; h,r-ind=1,1
        [3,3]((6,44,49),(2,15,17),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(5,36,39),(1,7,8)); lvl=3; h,r-ind=3,3; optimized-h
    [4,3]((0,1,0),(4,30,33),(2,16,17),(1,6,6)); lvl=2; h,r-ind=1,1
      [6,3]((5,36,39),(4,30,31),(3,22,23),(3,23,24),(4,30,33),(3,23,25)); lvl=3; h,r-ind=1,1
        [4,3]((4,29,31),(2,15,16),(5,36,39),(3,22,24)); lvl=4; h,r-ind=1,1
          [3,3]((7,51,55),(3,22,24),(2,15,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,29,31),(7,51,55),(2,15,16)); lvl=5; h,r-ind=1,1
          [3,3]((5,36,39),(4,29,31),(7,51,55)); lvl=5; h,r-ind=1,1
          [3,3]((5,36,39),(7,51,55),(3,22,24)); lvl=5; h,r-ind=1,1
        [3,3]((4,30,33),(2,15,16),(3,22,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,23,25),(4,30,33),(2,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,22,23),(4,29,31),(2,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,30,31),(3,22,23),(2,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,30,31),(3,23,24),(2,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,23,25),(3,23,24),(2,15,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,8),(2,16,17),(3,23,24),(3,23,25)); lvl=3; h,r-ind=1,1
        [3,3]((3,23,25),(4,31,33),(3,23,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,8),(4,31,33),(3,23,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,8),(2,16,17),(4,31,33)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,17),(3,23,25),(4,31,33)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,8),(2,16,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,6),(5,36,39),(1,7,7),(3,22,23)); lvl=3; h,r-ind=1,1
        [3,3]((2,14,15),(4,29,31),(5,36,39)); lvl=4; h,r-ind=1,1
        [4,3]((2,14,15),(8,57,60),(5,36,38),(4,29,31)); lvl=4; h,r-ind=1,1
          [3,3]((8,57,60),(7,50,53),(5,36,38)); lvl=5; h,r-ind=1,1
          [3,3]((4,29,31),(7,50,53),(5,36,38)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,15),(4,29,31),(7,50,53)); lvl=5; h,r-ind=1,1
          [3,3]((2,14,15),(8,57,60),(7,50,53)); lvl=5; h,r-ind=1,1
        [3,3]((3,22,23),(5,36,38),(4,29,31)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,7),(1,6,6),(2,14,15),(8,57,60)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((1,6,6),(3,21,22),(2,14,15)); lvl=5; h,r-ind=1,1
          [3,3]((8,57,60),(3,21,22),(2,14,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(8,57,60),(3,21,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(1,6,6),(3,21,22)); lvl=5; h,r-ind=1,1
```

```
      [4,3]((1,7,7),(3,22,23),(8,57,60),(5,36,38)); lvl=4; h,r-ind=1,1
        [3,3]((3,22,23),(6,43,45),(5,36,38)); lvl=5; h,r-ind=1,1
        [3,3]((8,57,60),(6,43,45),(5,36,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,7),(8,57,60),(6,43,45)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,7),(3,22,23),(6,43,45)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,6),(1,7,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,8),(2,15,15),(4,30,31),(3,23,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,15),(4,30,31),(5,38,39)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,24),(4,30,31),(5,38,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,8),(3,23,24),(5,38,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,8),(2,15,15),(5,38,39)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,8,8),(2,15,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,7),(2,15,15),(4,30,31),(3,22,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,15),(4,30,31),(5,37,38)); lvl=4; h,r-ind=1,1
      [3,3]((3,22,23),(4,30,31),(5,37,38)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,7),(2,15,15),(5,37,38)); lvl=4; h,r-ind=1,1
      [3,3]((3,22,23),(1,7,7),(5,37,38)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,7,7),(2,15,15)); lvl=3; h,r-ind=1,1
  [5,3]((4,30,33),(1,8,9),(2,16,17),(3,23,28),(2,15,18)); lvl=2; h,r-ind=1,1
    [3,3]((3,23,25),(2,15,17),(4,30,33)); lvl=3; h,r-ind=1,1
    [5,3]((9,70,78),(3,23,26),(5,39,43),(3,23,25),(2,15,17)); lvl=3; h,r-ind=1,1
      [4,3]((8,62,69),(7,54,60),(4,31,34),(5,39,43)); lvl=4; h,r-ind=1,1
        [3,3]((12,93,103),(4,31,34),(7,54,60)); lvl=5; h,r-ind=1,1
        [3,3]((8,62,69),(12,93,103),(7,54,60)); lvl=5; h,r-ind=1,1
        [3,3]((5,39,43),(12,93,103),(4,31,34)); lvl=5; h,r-ind=1,1
        [3,3]((8,62,69),(5,39,43),(12,93,103)); lvl=5; h,r-ind=1,1
      [3,3]((9,70,78),(8,62,69),(5,39,43)); lvl=4; h,r-ind=1,1
      [5,3]((7,54,60),(12,92,103),(2,15,17),(3,23,25),(4,31,34)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,17),(12,92,103),(9,69,77)); lvl=5; h,r-ind=1,1
        [3,3]((7,54,60),(12,92,103),(9,69,77)); lvl=5; h,r-ind=1,1
        [3,3]((7,54,60),(13,100,111),(4,31,34)); lvl=5; h,r-ind=1,1
        [3,3]((15,115,128),(2,15,17),(9,69,77)); lvl=5; h,r-ind=1,1
        [4,3]((7,54,60),(13,100,111),(15,115,128),(9,69,77)); lvl=5; h,r-ind=1,1
          [3,3]((22,169,188),(15,115,128),(13,100,111)); lvl=6; h,r-ind=1,1
          [3,3]((7,54,60),(22,169,188),(13,100,111)); lvl=6; h,r-ind=1,1
          [3,3]((9,69,77),(7,54,60),(22,169,188)); lvl=6; h,r-ind=1,1
          [3,3]((9,69,77),(22,169,188),(15,115,128)); lvl=6; h,r-ind=1,1
        [4,3]((13,100,111),(15,115,128),(6,46,51),(4,31,34)); lvl=5; h,r-ind=1,1
          [3,3]((19,146,162),(15,115,128),(6,46,51)); lvl=6; h,r-ind=1,1
          [3,3]((4,31,34),(19,146,162),(6,46,51)); lvl=6; h,r-ind=1,1
          [3,3]((13,100,111),(4,31,34),(19,146,162)); lvl=6; h,r-ind=1,1
          [3,3]((13,100,111),(19,146,162),(15,115,128)); lvl=6; h,r-ind=1,1
        [3,3]((15,115,128),(6,46,51),(2,15,17)); lvl=5; h,r-ind=1,1
        [3,3]((6,46,51),(2,15,17),(3,23,25)); lvl=5; h,r-ind=1,1
        [3,3]((6,46,51),(4,31,34),(3,23,25)); lvl=5; h,r-ind=1,1
      [3,3]((12,92,103),(3,23,26),(2,15,17)); lvl=4; h,r-ind=1,1
      [4,3]((8,62,69),(7,54,60),(12,92,103),(3,23,26)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((10,77,86),(7,54,60),(12,92,103)); lvl=5; h,r-ind=1,1
        [3,3]((3,23,26),(10,77,86),(12,92,103)); lvl=5; h,r-ind=1,1
        [3,3]((8,62,69),(3,23,26),(10,77,86)); lvl=5; h,r-ind=1,1
        [3,3]((8,62,69),(10,77,86),(7,54,60)); lvl=5; h,r-ind=1,1
      [3,3]((9,70,78),(8,62,69),(3,23,26)); lvl=4; h,r-ind=1,1
    [4,3]((3,23,27),(2,15,18),(3,23,26),(2,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,18),(2,15,17),(5,38,44)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,26),(2,15,17),(5,38,44)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,27),(2,15,18),(5,38,44)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,26),(3,23,27),(5,38,44)); lvl=4; h,r-ind=1,1
    [3,3]((3,23,28),(3,23,27),(2,15,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,9),(3,23,28),(3,23,27)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,9),(2,16,17),(9,70,78),(5,39,43)); lvl=3; h,r-ind=1,1
      [3,3]((2,16,17),(6,47,52),(5,39,43)); lvl=4; h,r-ind=1,1
      [3,3]((9,70,78),(6,47,52),(5,39,43)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,9),(9,70,78),(6,47,52)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,9),(2,16,17),(6,47,52)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,9),(3,23,27),(9,70,78),(3,23,26)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((3,23,27),(4,31,35),(3,23,26)); lvl=4; h,r-ind=1,1
      [3,3]((9,70,78),(4,31,35),(3,23,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,9),(9,70,78),(4,31,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,9),(3,23,27),(4,31,35)); lvl=4; h,r-ind=1,1
    [3,3]((2,16,17),(5,39,43),(3,23,25)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((0,1,0),(1,8,9),(3,23,28),(3,23,30),(1,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,8,10),(3,23,28),(1,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,8,10),(1,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,10),(3,23,29),(3,23,28)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,10),(3,23,29),(3,23,30)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,10),(1,8,11),(3,23,30)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,8,10),(1,8,11)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,8,9),(2,16,17)); lvl=2; h,r-ind=1,1
[3,3]((2,16,23),(0,1,0),(1,8,11)); lvl=1; h,r-ind=1,1
[3,3]((2,16,23),(1,8,11),(2,15,21)); lvl=1; h,r-ind=1,1
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  [3,3]((0,1,0),(1,0,0),(1,4,4)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,7,10),(1,0,0),(2,8,11)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,16,23),(1,7,10),(1,0,0)); lvl=1; h,r-ind=1,1
```

23.39 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,17,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,0,0),(1,3,4),(2,4,5)); lvl=1; h,r-ind=1,1
  [5,3]((2,9,12),(1,4,5),(2,6,7),(1,3,4),(2,4,5)); lvl=1; h,r-ind=1,1
    [6,3]((5,15,19),(3,9,11),(6,19,24),(5,16,20),(2,5,6),(3,8,10)); lvl=2; h,r-ind=1,1
      [3,3]((4,12,15),(6,19,24),(5,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(4,12,15),(5,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,8,10),(4,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,11),(2,5,6),(4,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,20),(4,12,15),(6,19,24)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,11),(5,16,20),(4,12,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(2,5,6),(3,8,10)); lvl=2; h,r-ind=1,1
    [4,3]((5,15,19),(1,3,4),(2,4,5),(3,8,10)); lvl=2; h,r-ind=1,1
      [3,3]((4,11,14),(1,3,4),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,14),(3,8,10),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,15,19),(4,11,14),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,15,19),(4,11,14),(1,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,9),(5,15,19),(6,19,24),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((5,15,19),(6,19,24),(7,22,28)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(6,19,24),(7,22,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(7,22,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,15,19),(7,22,28)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(2,7,9),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,11),(2,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(3,9,11),(5,16,20),(2,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,16,20),(4,13,16),(3,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(4,13,16),(3,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,6,7),(4,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(5,16,20),(4,13,16)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,9),(1,4,5),(6,19,24),(5,16,20)); lvl=2; h,r-ind=1,1
      [3,3]((7,23,29),(5,16,20),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(7,23,29),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,19,24),(7,23,29),(5,16,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(6,19,24),(7,23,29)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(2,7,9),(1,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,17,23),(2,9,12),(1,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((2,9,12),(1,4,5),(2,13,15),(4,33,44)); lvl=1; h,r-ind=5,1
    [4,3]((1,7,9),(2,12,15),(1,6,7),(2,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,12,15),(2,11,13),(3,18,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,13),(3,18,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(1,6,7),(3,18,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(2,12,15),(3,18,22)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,14),(1,4,5),(2,12,15),(2,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,12,15),(2,11,13),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,15),(5,28,35),(1,5,6)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,14),(5,28,35),(1,4,5),(1,5,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,16,20),(5,28,35),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(3,16,20),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,14),(1,4,5),(3,16,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,14),(3,16,20),(5,28,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,14),(2,12,15),(5,28,35)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,12),(1,6,8),(2,11,14),(1,4,5)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,6,8),(2,11,14),(2,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,11,14),(2,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,12),(1,6,8),(2,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,12),(2,10,13)); lvl=3; h,r-ind=1,1
    [4,3]((2,13,15),(2,15,19),(1,7,9),(1,6,7)); lvl=2; h,r-ind=1,1
      [4,3]((2,14,17),(2,15,19),(1,7,9),(4,27,33)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,21,26),(2,15,19),(1,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,27,33),(3,21,26),(1,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,17),(4,27,33),(3,21,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,17),(3,21,26),(2,15,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(1,7,9),(4,27,33)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,7),(2,13,15),(2,14,17),(4,27,33)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,15),(3,20,24),(2,14,17)); lvl=4; h,r-ind=1,1
        [3,3]((4,27,33),(3,20,24),(2,14,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(4,27,33),(3,20,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(2,13,15),(3,20,24)); lvl=4; h,r-ind=1,1
    [3,3]((2,16,21),(2,15,19),(1,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((4,33,44),(2,15,20),(2,16,21),(1,7,9)); lvl=2; h,r-ind=1,1
      [4,3]((3,24,32),(6,47,62),(1,7,9),(2,15,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,31,41),(1,7,9),(6,47,62)); lvl=4; h,r-ind=1,1
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      [3,3]((3,24,32),(4,31,41),(6,47,62)); lvl=4; h,r-ind=1,1
      [3,3]((4,31,41),(2,15,20),(1,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((3,24,32),(4,31,41),(2,15,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,16,21),(6,47,62),(1,7,9)); lvl=3; h,r-ind=1,1
    [4,3]((3,24,32),(4,33,44),(2,16,21),(6,47,62)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,40,53),(2,16,21),(4,33,44)); lvl=4; h,r-ind=1,1
      [3,3]((3,24,32),(5,40,53),(4,33,44)); lvl=4; h,r-ind=1,1
      [3,3]((6,47,62),(5,40,53),(2,16,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,24,32),(6,47,62),(5,40,53)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,8),(2,11,14),(1,7,9),(2,12,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,14),(2,12,15),(3,18,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,9),(2,12,15),(3,18,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(2,11,14),(3,18,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,9),(1,6,8),(3,18,23)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,8),(2,15,20),(1,7,9)); lvl=2; h,r-ind=1,1
[3,3]((2,17,23),(2,9,12),(4,33,44)); lvl=1; h,r-ind=10,10; optimized-h
[4,3]((1,3,3),(2,6,7),(1,0,0),(2,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,3),(1,0,0),(2,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(1,0,0),(2,4,5),(5,10,12)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,0,0),(3,5,6),(2,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((5,10,12),(3,5,6),(2,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(5,10,12),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,6),(2,4,5),(5,10,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(1,1,1),(5,10,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(1,1,1),(2,3,3)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,3),(2,3,3),(2,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,5,6),(5,13,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,7),(2,5,6),(5,13,15)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,7),(1,3,3),(1,2,2),(5,13,15)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,2),(3,8,9),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,7),(3,8,9),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((5,13,15),(2,6,7),(3,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((5,13,15),(1,2,2),(3,8,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(2,5,6)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
[5,3]((1,4,5),(2,13,15),(1,3,3),(2,6,7),(1,6,6)); lvl=1; h,r-ind=1,1
  [5,3]((4,19,21),(2,9,9),(1,6,6),(2,11,13),(1,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,5),(1,6,6),(3,16,18),(1,6,7)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,11,12),(1,6,7),(1,6,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(2,11,12),(1,6,6)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,18),(2,11,12),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(3,16,18),(2,11,12)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,13),(3,16,18),(1,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,5),(2,10,11),(3,16,18)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,13),(3,15,17),(2,10,11),(3,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((4,21,24),(3,15,17),(2,10,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,18),(4,21,24),(2,10,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,13),(3,16,18),(4,21,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,13),(4,21,24),(3,15,17)); lvl=4; h,r-ind=1,1
    [4,3]((4,19,21),(3,14,15),(3,15,17),(2,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,11),(3,15,17),(6,29,32)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,21),(3,15,17),(6,29,32)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,15),(4,19,21),(6,29,32)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,15),(2,10,11),(6,29,32)); lvl=4; h,r-ind=1,1
    [4,3]((2,9,9),(3,14,15),(1,5,5),(2,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,20),(2,10,11),(1,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,9),(4,19,20),(1,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,15),(4,19,20),(2,10,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,9),(3,14,15),(4,19,20)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,6),(2,13,15),(1,6,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,5),(2,7,8),(4,19,21),(2,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,10),(4,17,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(1,5,6),(2,7,8),(4,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(1,5,6),(4,17,19)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,20),(2,8,9),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(4,17,20),(1,5,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,5),(4,17,20),(2,8,9),(2,7,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,8,9),(4,17,20),(3,12,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(4,17,20),(3,12,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,8),(2,8,9),(3,12,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,8),(3,12,14)); lvl=5; h,r-ind=1,1
    [3,3]((3,15,17),(1,5,6),(2,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,15,17),(4,19,21),(2,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,15,17),(2,11,13),(1,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,5),(2,7,8),(2,6,7)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,8),(4,19,21),(1,3,3),(2,9,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,4),(2,9,9),(3,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(2,9,10),(3,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,19,21),(2,9,10),(3,14,15)); lvl=3; h,r-ind=1,1
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      [3,3]((4,17,19),(1,4,4),(2,9,10)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,8),(4,17,19),(1,3,3),(1,4,4)); lvl=3; h,r-ind=1,1
        [3,3]((2,8,9),(1,4,4),(4,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,4,4),(4,15,16)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,8),(1,3,3),(2,8,9),(4,15,16)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,3,3),(3,11,12),(4,15,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,9),(3,11,12),(4,15,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(1,3,3),(3,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,9),(2,7,8),(3,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,9),(4,17,19),(1,4,4)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,8),(2,6,7),(1,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,6,6)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((2,13,15),(4,33,44),(0,1,0),(1,6,6)); lvl=1; h,r-ind=1,1
    [4,3]((1,8,9),(0,1,0),(1,8,10),(2,17,22)); lvl=2; h,r-ind=1,1
      [4,3]((1,8,10),(2,17,22),(1,9,11),(2,17,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,9,11),(2,17,22),(2,17,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,10),(2,17,22),(2,17,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,17,20),(1,9,11),(2,17,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,10),(2,17,20),(2,17,21)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,9,11),(2,17,20)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,8,9),(0,1,0),(2,17,20)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,8,9),(1,8,10),(2,17,20)); lvl=3; h,r-ind=1,1
    [4,3]((4,33,44),(2,16,21),(1,8,10),(2,17,22)); lvl=2; h,r-ind=1,1
      [3,3]((2,16,21),(1,8,10),(6,49,64)); lvl=3; h,r-ind=1,1
      [4,3]((3,25,33),(2,17,22),(1,8,10),(6,49,64)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,33,43),(2,17,22),(1,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((6,49,64),(4,33,43),(1,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((3,25,33),(6,49,64),(4,33,43)); lvl=4; h,r-ind=1,1
        [3,3]((3,25,33),(4,33,43),(2,17,22)); lvl=4; h,r-ind=1,1
      [4,3]((4,33,44),(3,25,33),(2,16,21),(6,49,64)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,41,54),(3,25,33),(6,49,64)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,21),(5,41,54),(6,49,64)); lvl=4; h,r-ind=1,1
        [3,3]((4,33,44),(5,41,54),(3,25,33)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,21),(4,33,44),(5,41,54)); lvl=4; h,r-ind=1,1
    [4,3]((2,15,19),(2,15,18),(2,16,21),(1,8,10)); lvl=2; h,r-ind=1,1
      [3,3]((3,23,29),(2,16,21),(1,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,18),(3,23,29),(1,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,19),(2,15,18),(3,23,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,19),(3,23,29),(2,16,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,15,18),(1,8,9),(1,8,10)); lvl=2; h,r-ind=1,1
    [5,3]((2,14,15),(2,16,17),(2,15,18),(1,7,8),(1,8,9)); lvl=2; h,r-ind=1,1
      [6,3]((3,22,24),(6,45,50),(5,37,41),(2,15,16),(3,23,25),(5,38,42)); lvl=3; h,r-ind=1,1
        [3,3]((4,30,33),(3,23,25),(2,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,22,24),(4,30,33),(2,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,22,24),(4,30,33),(5,37,41)); lvl=4; h,r-ind=1,1
        [3,3]((4,30,33),(5,38,42),(3,23,25)); lvl=4; h,r-ind=1,1
        [3,3]((4,30,33),(6,45,50),(5,38,42)); lvl=4; h,r-ind=1,1
        [3,3]((4,30,33),(5,37,41),(6,45,50)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,9),(2,16,17),(3,23,25),(5,38,42)); lvl=3; h,r-ind=1,1
        [3,3]((2,16,17),(4,31,34),(3,23,25)); lvl=4; h,r-ind=1,1
        [3,3]((5,38,42),(4,31,34),(3,23,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(5,38,42),(4,31,34)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(2,16,17),(4,31,34)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,9),(2,15,17),(6,45,50),(5,38,42)); lvl=3; h,r-ind=1,1
        [3,3]((2,15,17),(6,45,50),(7,53,59)); lvl=4; h,r-ind=1,1
        [3,3]((5,38,42),(6,45,50),(7,53,59)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(2,15,17),(7,53,59)); lvl=4; h,r-ind=1,1
        [3,3]((5,38,42),(1,8,9),(7,53,59)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,9),(2,15,18),(2,15,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,8),(2,15,17),(6,45,50),(5,37,41)); lvl=3; h,r-ind=1,1
        [3,3]((2,15,17),(6,45,50),(7,52,58)); lvl=4; h,r-ind=1,1
        [3,3]((5,37,41),(6,45,50),(7,52,58)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(2,15,17),(7,52,58)); lvl=4; h,r-ind=1,1
        [3,3]((5,37,41),(1,7,8),(7,52,58)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,18),(1,7,8),(2,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,14,15),(3,22,24),(2,15,16)); lvl=3; h,r-ind=1,1
      [4,3]((2,14,15),(3,22,24),(1,7,8),(5,37,41)); lvl=3; h,r-ind=1,1
        [3,3]((3,22,24),(5,37,41),(4,29,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(5,37,41),(4,29,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,15),(3,22,24),(4,29,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(2,14,15),(4,29,32)); lvl=4; h,r-ind=1,1
      [3,3]((2,16,17),(2,15,16),(3,23,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,6),(2,14,15),(1,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,13,15),(1,6,6),(1,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,13,15),(2,15,19),(2,15,18),(1,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((2,15,19),(2,15,18),(4,29,35)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,7,8),(2,15,18),(4,29,35)); lvl=3; h,r-ind=1,1
      [4,3]((2,13,15),(2,14,17),(1,7,8),(4,29,35)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,21,25),(4,29,35),(2,14,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,15),(3,21,25),(2,14,17)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((3,21,25),(1,7,8),(4,29,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,15),(3,21,25),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,17),(2,15,19),(4,29,35)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,16,17),(1,8,9),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,6),(2,14,15),(2,16,17),(0,1,0)); lvl=2; h,r-ind=1,1
      [4,3]((2,15,15),(1,8,8),(2,16,17),(2,15,16)); lvl=3; h,r-ind=1,1
        [3,3]((3,23,24),(1,8,8),(2,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,16),(3,23,24),(2,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,15),(2,15,16),(3,23,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,15),(3,23,24),(1,8,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,7),(2,15,15),(2,14,15),(2,15,16)); lvl=3; h,r-ind=1,1
        [3,3]((2,15,16),(3,22,23),(2,15,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,7),(3,22,23),(2,15,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,7),(2,14,15),(3,22,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,15),(2,15,16),(3,22,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(1,7,7),(2,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(2,15,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(0,1,0),(1,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,15,15),(1,8,8)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,8,8),(2,16,17)); lvl=3; h,r-ind=1,1
  [3,3]((2,17,23),(4,33,44),(0,1,0)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((2,17,23),(1,0,0),(1,3,4)); lvl=1; h,r-ind=1,1
```

23.40 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,18,23)); lvl=0; h,r-ind=23,529
  [4,3]((2,7,8),(2,5,6),(1,0,0),(1,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((2,6,7),(2,3,3),(2,5,6),(1,0,0)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,6),(5,12,14),(1,1,1),(1,0,0)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,1,1),(3,6,7),(5,12,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(3,6,7),(5,12,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(1,1,1),(3,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(1,0,0),(3,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,7),(2,5,6),(5,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(5,12,14),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(1,1,1),(2,3,3)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,8),(2,6,7),(1,3,3),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,6,7),(2,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(5,15,17),(1,2,2)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,8),(1,3,3),(5,15,17),(1,2,2)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,9,10),(1,3,3),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((5,15,17),(3,9,10),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(5,15,17),(3,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(3,9,10),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,8),(2,6,7),(5,15,17)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((1,7,8),(1,6,6),(2,7,8),(1,5,6),(1,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((2,8,9),(2,10,11),(2,9,9),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,10,11),(2,9,9),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(2,10,11),(1,4,4)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,10),(2,8,9),(1,3,3),(1,4,4)); lvl=3; h,r-ind=1,1
        [3,3]((3,12,13),(1,3,3),(2,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(3,12,13),(2,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(3,12,13),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(1,4,4),(3,12,13)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,9),(2,7,8),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(2,8,9),(2,7,8)); lvl=2; h,r-ind=1,1
    [5,3]((1,6,6),(1,7,8),(1,6,7),(2,10,11),(2,9,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,7),(1,7,8),(3,18,20)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,5),(1,6,6),(1,7,8),(3,18,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,6,6),(2,12,13),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,18,20),(2,12,13),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(1,6,6),(2,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,18,20),(1,5,5),(2,12,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,5),(4,21,23),(1,6,7),(3,18,20)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,7),(2,11,12),(4,21,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(2,11,12),(4,21,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,18,20),(1,5,5),(2,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,18,20),(1,6,7),(2,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((4,21,23),(1,6,7),(2,10,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,5),(4,21,23),(2,9,9),(2,10,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,21,23),(3,15,16),(2,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,9),(3,15,16),(2,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(2,9,9),(3,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(4,21,23),(3,15,16)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,7),(1,5,6),(2,8,9),(2,10,11)); lvl=2; h,r-ind=1,1
      [4,3]((1,5,6),(4,20,23),(2,8,9),(2,9,10)); lvl=3; h,r-ind=1,2; alert-r-inc
```

```
      [3,3]((2,9,10),(4,20,23),(3,14,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(4,20,23),(3,14,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,9),(2,9,10),(3,14,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,8,9),(3,14,16)); lvl=4; h,r-ind=1,1
    [4,3]((2,10,11),(1,6,7),(4,20,23),(2,9,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,6,7),(4,20,23),(3,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,10),(4,20,23),(3,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,11),(1,6,7),(3,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,10),(2,10,11),(3,15,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(1,5,6),(4,20,23)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,6,6),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((2,5,6),(1,4,5),(1,0,0)); lvl=1; h,r-ind=1,1
[3,3]((1,4,5),(3,15,19),(1,0,0)); lvl=1; h,r-ind=1,1
[4,3]((2,18,23),(5,37,47),(3,15,19),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,11,14),(5,33,42),(3,15,19),(4,26,33)); lvl=2; h,r-ind=1,1
    [3,3]((6,37,47),(5,33,42),(4,26,33)); lvl=3; h,r-ind=1,1
    [3,3]((3,15,19),(6,37,47),(4,26,33)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,14),(6,37,47),(5,33,42)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,14),(3,15,19),(6,37,47)); lvl=3; h,r-ind=1,1
  [4,3]((3,22,28),(5,33,42),(5,37,47),(4,26,33)); lvl=2; h,r-ind=1,1
    [3,3]((4,26,33),(7,48,61),(5,33,42)); lvl=3; h,r-ind=1,1
    [3,3]((3,22,28),(7,48,61),(5,33,42)); lvl=3; h,r-ind=1,1
    [3,3]((3,22,28),(5,37,47),(7,48,61)); lvl=3; h,r-ind=1,1
    [3,3]((5,37,47),(4,26,33),(7,48,61)); lvl=3; h,r-ind=1,1
  [3,3]((2,18,23),(3,22,28),(5,33,42)); lvl=2; h,r-ind=1,1
  [3,3]((2,18,23),(3,22,28),(5,37,47)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,11,14),(3,15,19)); lvl=2; h,r-ind=1,1
  [3,3]((2,18,23),(1,0,0),(2,11,14)); lvl=2; h,r-ind=1,1
  [3,3]((2,18,23),(2,11,14),(5,33,42)); lvl=2; h,r-ind=1,1
[5,3]((2,7,8),(2,5,6),(2,12,15),(1,4,5),(1,5,6)); lvl=1; h,r-ind=1,1
  [6,3]((2,6,7),(3,10,12),(5,19,23),(6,24,29),(5,20,24),(3,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((5,19,23),(4,15,18),(3,10,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,7),(4,15,18),(3,10,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,7),(3,11,13),(4,15,18)); lvl=3; h,r-ind=1,1
    [3,3]((5,19,23),(4,15,18),(6,24,29)); lvl=3; h,r-ind=1,1
    [3,3]((4,15,18),(6,24,29),(5,20,24)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,13),(4,15,18),(5,20,24)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,8),(2,6,7),(3,11,13)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,6),(2,6,7),(3,10,12)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,5),(2,5,6),(3,10,12),(5,19,23)); lvl=2; h,r-ind=1,1
    [3,3]((4,14,17),(3,10,12),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(4,14,17),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((4,14,17),(5,19,23),(3,10,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(4,14,17),(5,19,23)); lvl=3; h,r-ind=1,1
  [4,3]((2,7,8),(1,5,6),(5,20,24),(3,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,16,19),(1,5,6),(5,20,24)); lvl=3; h,r-ind=1,1
    [3,3]((4,16,19),(3,11,13),(5,20,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,8),(4,16,19),(3,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,8),(4,16,19),(1,5,6)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,6),(6,24,29),(5,20,24),(2,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,20,24),(6,24,29),(7,29,35)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,11),(6,24,29),(7,29,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(5,20,24),(7,29,35)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,11),(1,5,6),(7,29,35)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,5),(5,19,23),(6,24,29),(2,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,19,23),(6,24,29),(7,28,34)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,11),(6,24,29),(7,28,34)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(5,19,23),(7,28,34)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,11),(1,4,5),(7,28,34)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,6),(2,12,15),(2,9,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,5),(2,12,15),(2,9,11)); lvl=2; h,r-ind=1,1
[5,3]((2,17,21),(1,7,8),(2,15,19),(2,12,15),(1,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((2,12,15),(4,25,31),(1,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((1,8,10),(1,6,7),(4,25,31),(1,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,7),(2,13,16),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((4,25,31),(2,13,16),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,10),(4,25,31),(2,13,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,10),(1,6,7),(2,13,16)); lvl=3; h,r-ind=1,1
  [3,3]((1,8,10),(1,7,8),(1,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,17,21),(1,8,10),(1,7,8)); lvl=2; h,r-ind=1,1
  [4,3]((1,8,10),(2,15,19),(2,12,15),(4,25,31)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,12,15),(2,15,19),(3,20,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,10),(2,15,19),(3,20,25)); lvl=3; h,r-ind=1,1
    [3,3]((4,25,31),(2,12,15),(3,20,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,10),(4,25,31),(3,20,25)); lvl=3; h,r-ind=1,1
[3,3]((2,18,23),(2,17,21),(2,15,19)); lvl=1; h,r-ind=4,4; optimized-h
[5,3]((0,1,0),(2,17,21),(1,7,8),(1,6,6),(1,9,11)); lvl=1; h,r-ind=1,1
  [4,3]((1,8,8),(1,6,6),(4,29,32),(3,21,23)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,6),(3,21,23),(2,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,29,32),(3,21,23),(2,14,15)); lvl=3; h,r-ind=1,1
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```
    [3,3]((4,29,32),(5,37,40),(2,14,15)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,8,8),(1,7,7),(5,37,40),(2,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,7),(2,14,15),(5,36,38)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,16),(2,14,15),(5,36,38)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,16),(5,37,40),(2,14,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,8),(2,15,16),(1,7,7),(5,36,38)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,15,16),(5,36,38),(3,22,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,7),(5,36,38),(3,22,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,8),(1,7,7),(3,22,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,8),(2,15,16),(3,22,23)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,7),(1,6,6),(2,14,15)); lvl=3; h,r-ind=1,1
  [4,3]((1,7,8),(2,15,17),(4,29,32),(3,21,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,15,17),(4,29,32),(5,36,40)); lvl=3; h,r-ind=1,1
    [3,3]((3,21,23),(4,29,32),(5,36,40)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,8),(3,21,23),(5,36,40)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,8),(2,15,17),(5,36,40)); lvl=3; h,r-ind=1,1
  [5,3]((2,17,21),(4,34,41),(5,42,50),(1,7,8),(2,15,17)); lvl=2; h,r-ind=1,1
    [4,3]((5,41,49),(2,16,19),(7,57,67),(2,15,17)); lvl=3; h,r-ind=1,1
      [4,3]((13,105,124),(2,16,19),(3,24,28),(2,15,17)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,16,19),(2,15,17),(5,40,47)); lvl=5; h,r-ind=1,1
        [3,3]((3,24,28),(2,15,17),(5,40,47)); lvl=5; h,r-ind=1,1
        [3,3]((13,105,124),(2,16,19),(5,40,47)); lvl=5; h,r-ind=1,1
        [3,3]((3,24,28),(13,105,124),(5,40,47)); lvl=5; h,r-ind=1,1
      [4,3]((6,49,58),(8,65,77),(13,105,124),(3,24,28)); lvl=4; h,r-ind=1,1
        [3,3]((11,89,105),(8,65,77),(13,105,124)); lvl=5; h,r-ind=1,1
        [3,3]((3,24,28),(11,89,105),(13,105,124)); lvl=5; h,r-ind=1,1
        [3,3]((6,49,58),(11,89,105),(8,65,77)); lvl=5; h,r-ind=1,1
        [3,3]((3,24,28),(6,49,58),(11,89,105)); lvl=5; h,r-ind=1,1
      [3,3]((7,57,67),(6,49,58),(3,24,28)); lvl=4; h,r-ind=1,1
      [3,3]((5,41,49),(6,49,58),(8,65,77)); lvl=4; h,r-ind=1,1
      [4,3]((5,41,49),(8,65,77),(13,105,124),(2,16,19)); lvl=4; h,r-ind=1,1
        [3,3]((8,65,77),(13,105,124),(10,81,96)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,19),(13,105,124),(10,81,96)); lvl=5; h,r-ind=1,1
        [3,3]((5,41,49),(8,65,77),(10,81,96)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,19),(5,41,49),(10,81,96)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,8),(2,16,19),(2,15,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,17,21),(1,7,8),(2,16,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,17,21),(5,41,49),(2,16,19)); lvl=3; h,r-ind=1,1
    [4,3]((5,41,49),(5,42,50),(3,25,30),(7,57,67)); lvl=3; h,r-ind=1,1
      [4,3]((3,25,30),(16,132,157),(4,33,39),(5,42,50)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((4,33,39),(7,58,69),(16,132,157)); lvl=5; h,r-ind=1,1
        [3,3]((3,25,30),(7,58,69),(16,132,157)); lvl=5; h,r-ind=1,1
        [3,3]((5,42,50),(4,33,39),(7,58,69)); lvl=5; h,r-ind=1,1
        [3,3]((3,25,30),(5,42,50),(7,58,69)); lvl=5; h,r-ind=1,1
      [4,3]((6,49,58),(9,74,88),(16,132,157),(4,33,39)); lvl=4; h,r-ind=1,1
        [3,3]((9,74,88),(16,132,157),(13,107,127)); lvl=5; h,r-ind=1,1
        [3,3]((4,33,39),(16,132,157),(13,107,127)); lvl=5; h,r-ind=1,1
        [3,3]((6,49,58),(9,74,88),(13,107,127)); lvl=5; h,r-ind=1,1
        [3,3]((4,33,39),(6,49,58),(13,107,127)); lvl=5; h,r-ind=1,1
      [3,3]((7,57,67),(6,49,58),(4,33,39)); lvl=4; h,r-ind=1,1
      [4,3]((5,41,49),(3,25,30),(9,74,88),(16,132,157)); lvl=4; h,r-ind=1,1
        [3,3]((12,99,118),(16,132,157),(3,25,30)); lvl=5; h,r-ind=1,1
        [3,3]((5,41,49),(12,99,118),(3,25,30)); lvl=5; h,r-ind=1,1
        [3,3]((9,74,88),(12,99,118),(16,132,157)); lvl=5; h,r-ind=1,1
        [3,3]((9,74,88),(5,41,49),(12,99,118)); lvl=5; h,r-ind=1,1
      [3,3]((6,49,58),(5,41,49),(9,74,88)); lvl=4; h,r-ind=1,1
    [3,3]((4,34,41),(5,42,50),(3,25,30)); lvl=3; h,r-ind=1,1
    [3,3]((2,17,21),(4,34,41),(3,25,30)); lvl=3; h,r-ind=1,1
    [3,3]((2,17,21),(5,41,49),(3,25,30)); lvl=3; h,r-ind=1,1
  [3,3]((1,9,11),(2,17,21),(4,34,41)); lvl=2; h,r-ind=1,1
  [3,3]((1,7,8),(1,6,6),(3,21,23)); lvl=2; h,r-ind=1,1
  [6,3]((5,42,50),(2,17,20),(2,15,17),(1,8,8),(2,17,17),(4,29,32)); lvl=2; h,r-ind=1,1
    [3,3]((1,8,9),(4,29,32),(5,37,40)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,8,9),(1,8,8),(5,37,40)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,17,17),(1,8,9),(1,8,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,17,17),(4,34,37),(1,8,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,17,20),(4,34,37),(1,8,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,15,17),(1,8,9),(4,29,32)); lvl=3; h,r-ind=1,1
    [3,3]((7,57,67),(2,15,17),(1,8,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((5,42,50),(7,57,67),(1,8,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,17,20),(5,42,50),(1,8,9)); lvl=3; h,r-ind=1,1
  [4,3]((1,9,11),(0,1,0),(2,17,20),(2,17,17)); lvl=2; h,r-ind=1,2; alert-r-inc
    [4,3]((2,17,17),(2,18,19),(1,9,9),(4,34,37)); lvl=3; h,r-ind=1,1
      [4,3]((1,9,9),(2,18,19),(7,61,64),(4,35,37)); lvl=4; h,r-ind=1,1
        [3,3]((2,18,19),(4,35,37),(5,44,46)); lvl=5; h,r-ind=1,1
        [3,3]((7,61,64),(4,35,37),(5,44,46)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,9),(7,61,64),(5,44,46)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,9),(2,18,19),(5,44,46)); lvl=5; h,r-ind=1,1
      [4,3]((2,17,18),(3,26,28),(7,61,64),(4,35,37)); lvl=4; h,r-ind=1,1
        [3,3]((6,52,55),(3,26,28),(4,35,37)); lvl=5; h,r-ind=1,1
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          [3,3]((7,61,64),(6,52,55),(4,35,37)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,18),(7,61,64),(6,52,55)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,18),(6,52,55),(3,26,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,18),(3,26,28),(4,34,37)); lvl=4; h,r-ind=1,1
        [3,3]((3,26,28),(2,18,19),(4,35,37)); lvl=4; h,r-ind=1,1
        [4,3]((2,17,17),(2,17,18),(1,9,9),(7,61,64)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((3,26,27),(2,17,18),(7,61,64)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,9),(3,26,27),(7,61,64)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,17),(3,26,27),(2,17,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,9),(2,17,17),(3,26,27)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(2,17,17),(1,9,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,17,20),(1,9,10),(2,18,19),(4,34,37)); lvl=3; h,r-ind=1,1
        [4,3]((7,61,67),(4,35,38),(1,9,10),(2,18,19)); lvl=4; h,r-ind=1,1
          [3,3]((5,44,48),(2,18,19),(1,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((7,61,67),(5,44,48),(1,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((4,35,38),(5,44,48),(2,18,19)); lvl=5; h,r-ind=1,1
          [3,3]((4,35,38),(7,61,67),(5,44,48)); lvl=5; h,r-ind=1,1
        [3,3]((3,26,28),(4,35,38),(2,18,19)); lvl=4; h,r-ind=1,1
        [4,3]((2,17,19),(7,61,67),(3,26,28),(4,35,38)); lvl=4; h,r-ind=1,1
          [3,3]((7,61,67),(6,52,57),(4,35,38)); lvl=5; h,r-ind=1,1
          [3,3]((3,26,28),(6,52,57),(4,35,38)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,19),(7,61,67),(6,52,57)); lvl=5; h,r-ind=1,1
          [3,3]((3,26,28),(2,17,19),(6,52,57)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,19),(3,26,28),(4,34,37)); lvl=4; h,r-ind=1,1
        [4,3]((2,17,20),(2,17,19),(7,61,67),(1,9,10)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,17,19),(7,61,67),(3,26,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,10),(7,61,67),(3,26,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,20),(2,17,19),(3,26,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,10),(2,17,20),(3,26,29)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,11),(2,17,20),(1,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,9,11),(1,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,9,10),(2,18,19)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,18,19),(1,9,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,9,11),(4,34,41),(5,42,50),(2,17,20)); lvl=2; h,r-ind=1,1
      [3,3]((4,34,41),(5,42,50),(6,51,61)); lvl=3; h,r-ind=1,1
      [3,3]((2,17,20),(5,42,50),(6,51,61)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,11),(2,17,20),(6,51,61)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,11),(4,34,41),(6,51,61)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,8,8),(2,17,17)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,8,8),(1,6,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,18,23),(2,17,21),(1,9,11)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,18,23),(1,9,11)); lvl=1; h,r-ind=1,1
  [3,3]((2,18,23),(2,15,19),(5,37,47)); lvl=1; h,r-ind=1,1
  [5,3]((2,15,19),(5,37,47),(2,12,15),(1,4,5),(3,15,19)); lvl=1; h,r-ind=1,1
    [4,3]((3,19,24),(10,64,81),(8,49,62),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((11,68,86),(8,49,62),(10,64,81)); lvl=3; h,r-ind=1,1
      [3,3]((3,19,24),(11,68,86),(10,64,81)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,19,24),(11,68,86)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(11,68,86),(8,49,62)); lvl=3; h,r-ind=1,1
    [4,3]((3,15,19),(5,30,38),(8,49,62),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,30,38),(8,49,62),(6,34,43)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(8,49,62),(6,34,43)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,19),(5,30,38),(6,34,43)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,15,19),(6,34,43)); lvl=3; h,r-ind=1,1
    [3,3]((4,26,33),(3,15,19),(5,30,38)); lvl=2; h,r-ind=1,1
    [3,3]((2,12,15),(3,19,24),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,15,19),(2,12,15),(3,19,24)); lvl=2; h,r-ind=1,1
    [6,3]((4,26,33),(6,41,52),(5,30,38),(10,64,81),(9,60,76),(8,49,62)); lvl=2; h,r-ind=1,1
      [3,3]((10,64,81),(7,45,57),(8,49,62)); lvl=3; h,r-ind=1,1
      [3,3]((5,30,38),(7,45,57),(8,49,62)); lvl=3; h,r-ind=1,1
      [3,3]((4,26,33),(5,30,38),(7,45,57)); lvl=3; h,r-ind=1,1
      [3,3]((6,41,52),(4,26,33),(7,45,57)); lvl=3; h,r-ind=1,1
      [3,3]((9,60,76),(10,64,81),(7,45,57)); lvl=3; h,r-ind=1,1
      [3,3]((6,41,52),(9,60,76),(7,45,57)); lvl=3; h,r-ind=1,1
    [4,3]((2,15,19),(5,37,47),(6,41,52),(9,60,76)); lvl=2; h,r-ind=1,1
      [3,3]((8,56,71),(5,37,47),(6,41,52)); lvl=3; h,r-ind=1,1
      [3,3]((9,60,76),(8,56,71),(6,41,52)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,19),(9,60,76),(8,56,71)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,19),(8,56,71),(5,37,47)); lvl=3; h,r-ind=1,1
    [3,3]((5,37,47),(4,26,33),(6,41,52)); lvl=2; h,r-ind=1,1
    [4,3]((2,15,19),(3,19,24),(10,64,81),(9,60,76)); lvl=2; h,r-ind=1,1
      [3,3]((12,79,100),(10,64,81),(3,19,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,19),(12,79,100),(3,19,24)); lvl=3; h,r-ind=1,1
      [3,3]((9,60,76),(2,15,19),(12,79,100)); lvl=3; h,r-ind=1,1
      [3,3]((9,60,76),(12,79,100),(10,64,81)); lvl=3; h,r-ind=1,1
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23.41 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,20,23)); lvl=0; h,r-ind=23,529
  [4,3]((2,17,19),(1,10,11),(1,6,6),(0,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,7,7),(2,17,17),(0,1,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,10,11),(1,9,10),(2,17,17),(0,1,0)); lvl=2; h,r-ind=1,1
      [3,3]((1,9,9),(2,17,17),(1,9,10)); lvl=3; h,r-ind=1,1
      [4,3]((2,19,19),(2,19,20),(1,9,9),(1,9,10)); lvl=3; h,r-ind=1,1
        [3,3]((3,28,29),(1,9,10),(1,9,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,19,19),(3,28,29),(1,9,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,19,20),(3,28,29),(1,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,19,19),(2,19,20),(3,28,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,10,11),(2,19,20),(1,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,19,19),(0,1,0),(1,9,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,10,11),(2,19,19),(2,19,20),(0,1,0)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((0,1,0),(1,10,10),(2,19,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,19,20),(1,10,10),(2,19,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,10,11),(2,19,20),(1,10,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,10,11),(0,1,0),(1,10,10)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,9,9),(2,17,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,6),(1,7,7),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((3,22,23),(1,9,10),(1,7,7),(2,17,17)); lvl=2; h,r-ind=1,1
      [3,3]((1,9,10),(1,8,8),(2,17,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,10),(1,8,8),(4,33,35)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,7),(1,8,8),(4,33,35),(2,16,17)); lvl=3; h,r-ind=1,1
        [3,3]((1,8,8),(3,24,25),(4,33,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,17),(3,24,25),(4,33,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,17),(1,7,7),(3,24,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,7),(1,8,8),(3,24,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,22,23),(1,7,7),(2,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,10),(4,33,35),(2,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,22,23),(1,9,10),(2,16,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,6),(3,22,23),(1,7,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,6),(2,17,19),(3,22,23),(1,9,10)); lvl=2; h,r-ind=1,1
      [3,3]((2,15,16),(2,17,19),(1,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,22,23),(2,15,16),(1,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(3,22,23),(2,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(2,15,16),(2,17,19)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,2),(1,6,6),(0,1,0)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,0,0),(1,2,2),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,20,23),(1,10,11),(0,1,0)); lvl=1; h,r-ind=1,1
  [5,3]((1,7,8),(2,8,9),(1,2,2),(2,17,19),(1,6,6)); lvl=1; h,r-ind=1,1
    [4,3]((1,8,9),(4,23,25),(1,4,4),(1,6,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,12,13),(1,4,4),(4,23,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,9),(2,12,13),(4,23,25)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,5),(4,25,27),(2,12,13),(1,4,4)); lvl=3; h,r-ind=1,1
        [3,3]((4,25,27),(3,17,18),(2,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(3,17,18),(2,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(1,4,4),(3,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(4,25,27),(3,17,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,9),(1,6,6),(1,5,5),(4,25,27)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,6),(2,13,14),(1,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,25,27),(2,13,14),(1,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(4,25,27),(2,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(1,6,6),(2,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,9),(4,25,27),(2,12,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,17,19),(1,8,9),(1,6,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(2,9,10),(4,23,25),(1,4,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,3),(1,4,4),(2,11,12),(4,21,23)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,4),(3,14,15),(2,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,23),(3,14,15),(2,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,4,4),(3,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,23),(1,3,3),(3,14,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,3),(1,2,2),(2,9,10),(4,21,23)); lvl=3; h,r-ind=1,1
        [4,3]((2,10,11),(1,2,2),(2,9,10),(4,15,16)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,12,13),(1,2,2),(2,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,11),(3,12,13),(2,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,16),(3,12,13),(1,2,2)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,11),(4,15,16),(3,12,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,10,11),(4,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,10,11),(4,21,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(4,15,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(4,23,25),(2,11,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,9),(1,2,2),(2,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,7,8),(2,8,9),(2,9,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,8),(1,8,9),(2,9,10),(4,23,25)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,12),(1,8,9),(4,23,25)); lvl=3; h,r-ind=1,1
      [4,3]((5,33,37),(2,11,12),(4,21,23),(1,8,9)); lvl=3; h,r-ind=1,1
        [4,3]((3,18,20),(4,21,23),(6,37,41),(2,11,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,12),(4,21,23),(5,29,32)); lvl=5; h,r-ind=1,1
          [3,3]((3,18,20),(4,21,23),(5,29,32)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((6,37,41),(2,11,12),(5,29,32)); lvl=5; h,r-ind=1,1
          [3,3]((3,18,20),(6,37,41),(5,29,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(6,37,41),(2,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(3,18,20),(6,37,41)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(3,18,20),(5,33,37)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(5,33,37),(1,8,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,8),(5,33,37),(2,9,10),(4,21,23)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,10,11),(3,18,20),(4,21,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(7,42,47),(3,18,20)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,7,8),(5,33,37),(7,42,47),(3,18,20)); lvl=4; h,r-ind=1,3
          [3,3]((3,18,20),(7,42,47),(4,25,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(7,42,47),(4,25,28)); lvl=5; h,r-ind=1,1
          [3,3]((5,33,37),(3,18,20),(4,25,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(5,33,37),(4,25,28)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,8),(2,9,10),(2,10,11),(7,42,47)); lvl=4; h,r-ind=1,3
          [3,3]((2,10,11),(3,17,19),(2,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(3,17,19),(2,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((7,42,47),(2,10,11),(3,17,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(7,42,47),(3,17,19)); lvl=5; h,r-ind=1,1
  [3,3]((2,20,23),(1,7,8),(2,17,19)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(2,20,23),(1,7,8)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,7,8),(2,8,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,8,9),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,20,23),(2,17,19),(1,10,11)); lvl=1; h,r-ind=3,3; optimized-h
```

23.42 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,22,23)); lvl=0; h,r-ind=23,529
  [3,3]((0,1,0),(1,6,6),(1,11,11)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((2,22,23),(1,6,6),(1,11,11)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((2,22,23),(0,1,0),(1,11,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(0,1,0),(1,6,6)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((2,22,23),(1,1,1),(1,6,6)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(2,22,23),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
```

23.43 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,3,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,0,0),(1,1,7),(3,3,22)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,7),(3,3,22)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,15),(1,0,0),(3,3,22)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,15),(3,3,22)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,23),(0,1,0),(2,2,15)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,23),(2,2,15),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,4),(1,0,0),(1,1,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,1,4),(1,1,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,1,4),(1,0,0)); lvl=1; h,r-ind=4,16; optimized-h
```

23.44 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,4,23)); lvl=0; h,r-ind=23,529
  [5,3]((3,4,19),(6,8,23),(2,3,8),(2,3,13),(5,7,33)); lvl=1; h,r-ind=1,1
    [4,3]((5,7,26),(4,6,21),(5,7,32),(2,3,13)); lvl=2; h,r-ind=1,1
      [4,3]((5,7,26),(5,7,29),(2,3,11),(4,6,23)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,11),(4,6,23),(11,16,62)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,29),(4,6,23),(11,16,62)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
        [3,3]((10,14,55),(5,7,29),(11,16,62)); lvl=4; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
        [4,3]((10,14,55),(5,7,26),(2,3,11),(11,16,62)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((16,23,88),(2,3,11),(5,7,27),(5,7,26)); lvl=5; h,r-ind=1,3
            [3,3]((5,7,27),(7,10,38),(5,7,26)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,11),(7,10,38),(5,7,26)); lvl=6; h,r-ind=1,1
            [3,3]((16,23,88),(2,3,11),(7,10,38)); lvl=6; h,r-ind=1,1
            [3,3]((16,23,88),(5,7,27),(7,10,38)); lvl=6; h,r-ind=1,1
          [3,3]((7,10,39),(16,23,88),(5,7,27)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [3,3]((10,14,55),(7,10,39),(5,7,27)); lvl=5; h,r-ind=1,1
          [4,3]((11,16,62),(7,10,39),(16,23,88),(2,3,11)); lvl=5; h,r-ind=1,3
            [3,3]((7,10,39),(9,13,50),(16,23,88)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,11),(9,13,50),(16,23,88)); lvl=6; h,r-ind=1,1
            [3,3]((11,16,62),(7,10,39),(9,13,50)); lvl=6; h,r-ind=1,1
```

```
        [3,3]((2,3,11),(11,16,62),(9,13,50)); lvl=6; h,r-ind=1,1
  [4,3]((5,7,32),(5,7,29),(2,3,13),(4,6,23)); lvl=3; h,r-ind=3,1; alert-h-inc
    [3,3]((5,7,29),(4,6,23),(2,3,12)); lvl=4; h,r-ind=1,1
    [3,3]((5,7,29),(10,14,61),(2,3,12)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((5,7,32),(10,14,61),(2,3,13),(2,3,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,12),(2,3,13),(9,13,56)); lvl=5; h,r-ind=1,1
      [4,3]((5,7,32),(5,7,31),(2,3,13),(9,13,56)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((7,10,44),(5,7,31),(9,13,56)); lvl=6; h,r-ind=1,1
        [3,3]((7,10,44),(2,3,13),(9,13,56)); lvl=6; h,r-ind=1,1
        [3,3]((5,7,32),(7,10,44),(2,3,13)); lvl=6; h,r-ind=1,1
        [3,3]((5,7,32),(7,10,44),(5,7,31)); lvl=6; h,r-ind=1,1
      [3,3]((5,7,31),(2,3,12),(9,13,56)); lvl=5; h,r-ind=1,1
      [3,3]((5,7,31),(10,14,61),(2,3,12)); lvl=5; h,r-ind=1,1
  [3,3]((5,7,26),(4,6,21),(2,3,11)); lvl=3; h,r-ind=1,1
[3,3]((5,7,33),(5,7,32),(2,3,13)); lvl=2; h,r-ind=1,1
[3,3]((3,4,19),(5,7,33),(5,7,32)); lvl=2; h,r-ind=1,1
[4,3]((3,4,19),(3,4,15),(5,7,26),(5,7,32)); lvl=2; h,r-ind=2,1; alert-h-inc
  [4,3]((3,4,17),(5,7,29),(3,4,15),(5,7,26)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,16),(3,4,15),(10,14,55),(5,7,26)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,15),(11,15,58),(5,7,27),(5,7,26)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((8,11,42),(11,15,58),(5,7,27)); lvl=6; h,r-ind=1,1
        [3,3]((5,7,26),(8,11,42),(5,7,27)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,15),(5,7,26),(8,11,42)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,15),(8,11,42),(11,15,58)); lvl=6; h,r-ind=1,1
      [3,3]((3,4,16),(3,4,15),(11,15,58)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,16),(11,15,58),(5,7,27)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,16),(5,7,27),(10,14,55)); lvl=5; h,r-ind=1,1
    [4,3]((3,4,16),(3,4,17),(5,7,29),(10,14,55)); lvl=4; h,r-ind=1,1
      [4,3]((5,7,28),(11,15,61),(3,4,17),(5,7,29)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((8,11,45),(11,15,61),(3,4,17)); lvl=6; h,r-ind=1,1
        [3,3]((5,7,29),(8,11,45),(3,4,17)); lvl=6; h,r-ind=1,1
        [3,3]((5,7,28),(5,7,29),(8,11,45)); lvl=6; h,r-ind=1,1
        [3,3]((5,7,28),(8,11,45),(11,15,61)); lvl=6; h,r-ind=1,1
      [3,3]((3,4,16),(5,7,28),(11,15,61)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,16),(10,14,55),(5,7,28)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,16),(11,15,61),(3,4,17)); lvl=5; h,r-ind=1,1
  [4,3]((3,4,19),(3,4,17),(5,7,32),(5,7,29)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,18),(3,4,17),(10,14,61),(5,7,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,18),(10,14,61),(5,7,30)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,18),(11,15,65),(5,7,30)); lvl=5; h,r-ind=1,1
      [4,3]((3,4,17),(11,15,65),(5,7,29),(5,7,30)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,29),(8,11,47),(5,7,30)); lvl=6; h,r-ind=1,1
        [3,3]((11,15,65),(8,11,47),(5,7,30)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,17),(11,15,65),(8,11,47)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,17),(5,7,29),(8,11,47)); lvl=6; h,r-ind=1,1
      [3,3]((3,4,17),(3,4,18),(11,15,65)); lvl=5; h,r-ind=1,1
    [4,3]((3,4,18),(3,4,19),(5,7,32),(10,14,61)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,19),(5,7,32),(5,7,31),(11,15,68)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,31),(5,7,32),(8,11,50)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,19),(5,7,32),(8,11,50)); lvl=6; h,r-ind=1,1
        [3,3]((11,15,68),(5,7,31),(8,11,50)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,19),(11,15,68),(8,11,50)); lvl=6; h,r-ind=1,1
      [3,3]((3,4,18),(5,7,31),(11,15,68)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,18),(10,14,61),(5,7,31)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,18),(3,4,19),(11,15,68)); lvl=5; h,r-ind=1,1
[5,3]((3,4,12),(3,4,15),(5,7,26),(2,3,8),(4,6,21)); lvl=2; h,r-ind=1,1
  [4,3]((10,14,51),(2,3,10),(4,6,21),(5,7,26)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((2,3,10),(7,10,36),(4,6,21)); lvl=4; h,r-ind=1,1
    [3,3]((5,7,26),(7,10,36),(4,6,21)); lvl=4; h,r-ind=1,1
    [3,3]((10,14,51),(5,7,26),(7,10,36)); lvl=4; h,r-ind=1,1
    [3,3]((10,14,51),(2,3,10),(7,10,36)); lvl=4; h,r-ind=1,1
  [3,3]((3,4,15),(10,14,51),(5,7,26)); lvl=3; h,r-ind=1,1
  [5,3]((3,4,15),(10,14,51),(6,8,27),(2,3,10),(4,6,19)); lvl=3; h,r-ind=1,2; alert-r-inc
    [4,3]((2,3,10),(9,13,43),(16,23,77),(4,6,19)); lvl=4; h,r-ind=1,1
      [3,3]((11,16,53),(9,13,43),(16,23,77)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,10),(11,16,53),(16,23,77)); lvl=5; h,r-ind=1,1
      [3,3]((11,16,53),(4,6,19),(9,13,43)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,10),(11,16,53),(4,6,19)); lvl=5; h,r-ind=1,1
    [3,3]((5,7,23),(9,13,43),(4,6,19)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
    [5,3]((3,4,14),(5,7,23),(5,7,24),(9,13,43),(16,23,77)); lvl=4; h,r-ind=1,1
      [4,3]((14,20,67),(12,17,57),(7,10,33),(9,13,43)); lvl=5; h,r-ind=1,1
        [3,3]((21,30,100),(7,10,33),(12,17,57)); lvl=6; h,r-ind=1,1
        [3,3]((14,20,67),(21,30,100),(12,17,57)); lvl=6; h,r-ind=1,1
        [3,3]((9,13,43),(14,20,67),(21,30,100)); lvl=6; h,r-ind=1,1
        [3,3]((9,13,43),(21,30,100),(7,10,33)); lvl=6; h,r-ind=1,1
      [3,3]((14,20,67),(16,23,77),(9,13,43)); lvl=5; h,r-ind=1,1
      [3,3]((5,7,24),(14,20,67),(16,23,77)); lvl=5; h,r-ind=1,1
      [5,3]((5,7,23),(3,4,14),(20,28,95),(12,17,57),(7,10,33)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,14),(25,35,118),(10,14,47)); lvl=6; h,r-ind=1,1
        [4,3]((7,10,33),(22,31,104),(25,35,118),(10,14,47)); lvl=6; h,r-ind=1,1
```

```
            [3,3]((22,31,104),(25,35,118),(32,45,151)); lvl=7; h,r-ind=1,1
            [3,3]((10,14,47),(25,35,118),(32,45,151)); lvl=7; h,r-ind=1,1
            [3,3]((7,10,33),(22,31,104),(32,45,151)); lvl=7; h,r-ind=1,1
            [3,3]((10,14,47),(7,10,33),(32,45,151)); lvl=7; h,r-ind=1,1
          [3,3]((5,7,23),(7,10,33),(10,14,47)); lvl=6; h,r-ind=1,1
          [4,3]((15,21,71),(22,31,104),(12,17,57),(25,35,118)); lvl=6; h,r-ind=1,1
            [3,3]((12,17,57),(22,31,104),(37,52,175)); lvl=7; h,r-ind=1,1
            [3,3]((25,35,118),(22,31,104),(37,52,175)); lvl=7; h,r-ind=1,1
            [3,3]((15,21,71),(25,35,118),(37,52,175)); lvl=7; h,r-ind=1,1
            [3,3]((15,21,71),(12,17,57),(37,52,175)); lvl=7; h,r-ind=1,1
          [3,3]((7,10,33),(22,31,104),(12,17,57)); lvl=6; h,r-ind=1,1
          [3,3]((5,7,23),(3,4,14),(10,14,47)); lvl=6; h,r-ind=1,1
          [3,3]((15,21,71),(3,4,14),(25,35,118)); lvl=6; h,r-ind=1,1
          [3,3]((20,28,95),(15,21,71),(12,17,57)); lvl=6; h,r-ind=1,1
          [3,3]((20,28,95),(15,21,71),(3,4,14)); lvl=6; h,r-ind=1,1
        [4,3]((5,7,24),(20,28,95),(14,20,67),(12,17,57)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((17,24,81),(12,17,57),(20,28,95)); lvl=6; h,r-ind=1,1
          [3,3]((5,7,24),(17,24,81),(20,28,95)); lvl=6; h,r-ind=1,1
          [3,3]((14,20,67),(17,24,81),(12,17,57)); lvl=6; h,r-ind=1,1
          [3,3]((5,7,24),(14,20,67),(17,24,81)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,14),(5,7,24),(20,28,95)); lvl=5; h,r-ind=1,1
      [4,3]((5,7,25),(2,3,10),(5,7,24),(16,23,77)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((7,10,34),(2,3,10),(16,23,77)); lvl=5; h,r-ind=1,1
        [3,3]((7,10,34),(5,7,24),(16,23,77)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,25),(7,10,34),(5,7,24)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,25),(7,10,34),(2,3,10)); lvl=5; h,r-ind=1,1
      [3,3]((5,7,25),(10,14,51),(2,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,15),(5,7,25),(10,14,51)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,15),(5,7,25),(3,4,14),(5,7,24)); lvl=4; h,r-ind=1,1
        [3,3]((8,11,39),(5,7,24),(5,7,25)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,15),(8,11,39),(5,7,25)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,14),(8,11,39),(5,7,24)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,15),(3,4,14),(8,11,39)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,14),(6,8,27),(5,7,23)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,12),(6,8,27),(2,3,8),(4,6,19)); lvl=3; h,r-ind=3,1; alert-h-inc
      [3,3]((5,7,23),(2,3,9),(4,6,19)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,23),(3,4,13),(2,3,9)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,12),(3,4,13),(2,3,8),(2,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,21),(2,3,9),(2,3,8)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,12),(5,7,21),(2,3,8)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,13),(5,7,21),(2,3,9)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,12),(3,4,13),(5,7,21)); lvl=5; h,r-ind=1,1
      [3,3]((5,7,23),(6,8,27),(3,4,13)); lvl=4; h,r-ind=1,1
  [3,3]((6,8,23),(3,4,12),(2,3,8)); lvl=2; h,r-ind=1,1
[6,3]((3,5,22),(5,7,35),(9,13,65),(1,2,7),(2,3,13),(5,7,33)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,14),(5,7,33),(5,7,34)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,14),(5,7,35),(5,7,34)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,14),(7,10,50),(5,7,35)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,14),(4,6,29),(9,13,65),(7,10,50)); lvl=2; h,r-ind=1,1
    [3,3]((11,16,79),(9,13,65),(4,6,29)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,14),(11,16,79),(4,6,29)); lvl=3; h,r-ind=1,1
    [3,3]((7,10,50),(2,3,14),(11,16,79)); lvl=3; h,r-ind=1,1
    [3,3]((7,10,50),(11,16,79),(9,13,65)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,22),(2,3,14),(4,6,29)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,14),(2,3,13),(5,7,33)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,14),(1,2,7),(2,3,13)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,22),(2,3,14),(1,2,7)); lvl=2; h,r-ind=1,1
[3,3]((3,4,23),(3,5,22),(9,13,65)); lvl=1; h,r-ind=9,3; optimized-h
[6,3]((5,7,35),(3,4,21),(4,5,25),(4,5,26),(3,4,19),(5,7,33)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,20),(3,4,21),(5,7,35)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,20),(5,7,34),(5,7,35)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,20),(5,7,33),(5,7,34)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,20),(3,4,19),(5,7,33)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,25),(3,4,20),(3,4,19)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,20),(3,4,21),(4,5,26)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,25),(3,4,20),(4,5,26)); lvl=2; h,r-ind=1,1
[4,3]((3,4,23),(5,7,35),(9,13,65),(3,4,21)); lvl=1; h,r-ind=2,1
  [4,3]((9,13,65),(12,17,88),(5,7,36),(7,10,50)); lvl=2; h,r-ind=1,1
    [3,3]((7,10,51),(5,7,36),(19,27,137)); lvl=3; h,r-ind=1,1
    [3,3]((7,10,50),(5,7,36),(19,27,137)); lvl=3; h,r-ind=1,1
    [4,3]((7,10,50),(9,13,65),(7,10,51),(19,27,137)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((7,10,51),(14,20,101),(9,13,65)); lvl=4; h,r-ind=1,1
      [3,3]((7,10,50),(14,20,101),(9,13,65)); lvl=4; h,r-ind=1,1
      [3,3]((19,27,137),(7,10,50),(14,20,101)); lvl=4; h,r-ind=1,1
      [3,3]((19,27,137),(7,10,51),(14,20,101)); lvl=4; h,r-ind=1,1
    [3,3]((7,10,51),(12,17,88),(5,7,36)); lvl=3; h,r-ind=1,1
  [3,3]((5,7,35),(5,7,36),(7,10,50)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,21),(5,7,35),(5,7,36)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,23),(3,4,22),(12,17,88),(5,7,36)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,22),(5,7,36),(13,18,95)); lvl=3; h,r-ind=1,1
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      [3,3]((5,7,37),(5,7,36),(13,18,95)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,37),(12,17,88),(5,7,36)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,37),(3,4,23),(3,4,22),(13,18,95)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,23),(8,11,59),(3,4,22)); lvl=4; h,r-ind=1,1
        [3,3]((13,18,95),(8,11,59),(3,4,22)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,37),(13,18,95),(8,11,59)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,37),(3,4,23),(8,11,59)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,21),(3,4,22),(5,7,36)); lvl=2; h,r-ind=1,1
  [5,3]((1,1,3),(1,1,5),(4,5,25),(3,4,19),(6,8,23)); lvl=1; h,r-ind=1,1
    [4,3]((4,5,24),(8,10,39),(1,1,4),(1,1,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,4),(4,5,20),(8,10,39)); lvl=3; h,r-ind=1,1
      [4,3]((8,10,43),(9,10,44),(1,1,4),(4,5,20)); lvl=3; h,r-ind=1,1
        [4,3]((1,1,4),(6,7,30),(12,14,61),(9,10,44)); lvl=4; h,r-ind=1,1
          [4,3]((7,8,35),(6,7,30),(12,14,61),(14,16,69)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((6,7,30),(12,14,61),(13,15,65)); lvl=6; h,r-ind=1,1
            [3,3]((7,8,35),(12,14,61),(13,15,65)); lvl=6; h,r-ind=1,1
            [3,3]((14,16,69),(6,7,30),(13,15,65)); lvl=6; h,r-ind=1,1
            [3,3]((7,8,35),(14,16,69),(13,15,65)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,4),(7,8,35),(14,16,69)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(7,8,35),(9,10,44)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(6,7,30),(14,16,69)); lvl=5; h,r-ind=1,1
        [3,3]((11,13,55),(1,1,4),(6,7,30)); lvl=4; h,r-ind=1,1
        [4,3]((4,5,20),(4,5,21),(11,13,55),(1,1,4)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((4,5,21),(5,6,25),(11,13,55)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(5,6,25),(11,13,55)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,20),(1,1,4),(5,6,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,20),(4,5,21),(5,6,25)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,26),(6,7,30),(12,14,61)); lvl=4; h,r-ind=1,1
        [4,3]((5,6,26),(4,5,21),(11,13,55),(6,7,30)); lvl=4; h,r-ind=1,1
          [3,3]((10,12,51),(4,5,21),(11,13,55)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,30),(10,12,51),(11,13,55)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,26),(6,7,30),(10,12,51)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,26),(10,12,51),(4,5,21)); lvl=5; h,r-ind=1,1
        [3,3]((8,10,43),(5,6,26),(4,5,21)); lvl=4; h,r-ind=1,1
      [4,3]((4,5,24),(8,10,43),(1,1,5),(9,10,44)); lvl=3; h,r-ind=5,5; alert-h-inc; alert-r-inc
        [5,3]((1,1,5),(9,10,44),(6,7,31),(12,14,61),(13,15,68)); lvl=4; h,r-ind=1,1
          [5,3]((7,8,35),(13,15,66),(20,23,102),(15,17,76),(21,24,107)); lvl=5; h,r-ind=1,1
            [3,3]((14,16,71),(20,23,102),(21,24,107)); lvl=6; h,r-ind=1,1
            [3,3]((14,16,71),(15,17,76),(21,24,107)); lvl=6; h,r-ind=1,1
            [3,3]((7,8,35),(14,16,71),(15,17,76)); lvl=6; h,r-ind=1,1
            [3,3]((14,16,71),(13,15,66),(20,23,102)); lvl=6; h,r-ind=1,1
            [3,3]((7,8,35),(14,16,71),(13,15,66)); lvl=6; h,r-ind=1,1
          [4,3]((1,1,5),(7,8,36),(15,17,76),(21,24,107)); lvl=5; h,r-ind=1,1
            [3,3]((7,8,36),(21,24,107),(22,25,112)); lvl=6; h,r-ind=1,1
            [3,3]((15,17,76),(21,24,107),(22,25,112)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,5),(7,8,36),(22,25,112)); lvl=6; h,r-ind=1,1
            [3,3]((15,17,76),(1,1,5),(22,25,112)); lvl=6; h,r-ind=1,1
          [4,3]((20,23,102),(7,8,36),(6,7,31),(21,24,107)); lvl=5; h,r-ind=1,1
            [3,3]((7,8,36),(6,7,31),(27,31,138)); lvl=6; h,r-ind=1,1
            [3,3]((20,23,102),(6,7,31),(27,31,138)); lvl=6; h,r-ind=1,1
            [3,3]((21,24,107),(20,23,102),(27,31,138)); lvl=6; h,r-ind=1,1
            [3,3]((21,24,107),(7,8,36),(27,31,138)); lvl=6; h,r-ind=1,1
          [3,3]((13,15,68),(7,8,36),(6,7,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(13,15,68),(7,8,36)); lvl=5; h,r-ind=1,1
          [4,3]((12,14,61),(13,15,66),(20,23,102),(6,7,31)); lvl=5; h,r-ind=1,1
            [3,3]((13,15,66),(19,22,97),(20,23,102)); lvl=6; h,r-ind=1,1
            [3,3]((6,7,31),(19,22,97),(20,23,102)); lvl=6; h,r-ind=1,1
            [3,3]((12,14,61),(13,15,66),(19,22,97)); lvl=6; h,r-ind=1,1
            [3,3]((6,7,31),(12,14,61),(19,22,97)); lvl=6; h,r-ind=1,1
          [3,3]((12,14,61),(7,8,35),(13,15,66)); lvl=5; h,r-ind=1,1
          [4,3]((1,1,5),(7,8,35),(9,10,44),(15,17,76)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((9,10,44),(8,9,40),(7,8,35)); lvl=6; h,r-ind=1,1
            [3,3]((15,17,76),(8,9,40),(7,8,35)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,5),(15,17,76),(8,9,40)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,5),(9,10,44),(8,9,40)); lvl=6; h,r-ind=1,1
        [5,3]((4,5,24),(8,10,45),(5,6,27),(1,1,5),(13,15,68)); lvl=4; h,r-ind=1,1
          [3,3]((6,7,32),(5,6,27),(13,15,68)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,32),(1,1,5),(13,15,68)); lvl=5; h,r-ind=1,1
          [4,3]((11,13,60),(16,19,87),(6,7,32),(1,1,5)); lvl=5; h,r-ind=1,1
            [3,3]((16,19,87),(6,7,32),(17,20,92)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,5),(6,7,32),(17,20,92)); lvl=6; h,r-ind=1,1
            [3,3]((11,13,60),(16,19,87),(17,20,92)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,5),(11,13,60),(17,20,92)); lvl=6; h,r-ind=1,1
          [4,3]((4,5,24),(4,5,23),(11,13,60),(1,1,5)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((5,6,28),(4,5,23),(11,13,60)); lvl=6; h,r-ind=1,1
            [3,3]((5,6,28),(1,1,5),(11,13,60)); lvl=6; h,r-ind=1,1
            [3,3]((4,5,24),(5,6,28),(1,1,5)); lvl=6; h,r-ind=1,1
            [3,3]((4,5,24),(5,6,28),(4,5,23)); lvl=6; h,r-ind=1,1
          [4,3]((16,19,87),(15,18,82),(6,7,32),(5,6,27)); lvl=5; h,r-ind=1,1
            [3,3]((15,18,82),(5,6,27),(21,25,114)); lvl=6; h,r-ind=1,1
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          [3,3]((6,7,32),(5,6,27),(21,25,114)); lvl=6; h,r-ind=1,1
          [3,3]((16,19,87),(15,18,82),(21,25,114)); lvl=6; h,r-ind=1,1
          [3,3]((6,7,32),(16,19,87),(21,25,114)); lvl=6; h,r-ind=1,1
        [4,3]((8,10,45),(9,11,50),(15,18,82),(5,6,27)); lvl=5; h,r-ind=1,1
          [3,3]((14,17,77),(9,11,50),(15,18,82)); lvl=6; h,r-ind=1,1
          [3,3]((5,6,27),(14,17,77),(15,18,82)); lvl=6; h,r-ind=1,1
          [3,3]((8,10,45),(14,17,77),(9,11,50)); lvl=6; h,r-ind=1,1
          [3,3]((5,6,27),(8,10,45),(14,17,77)); lvl=6; h,r-ind=1,1
        [5,3]((4,5,23),(11,13,60),(16,19,87),(9,11,50),(15,18,82)); lvl=5; h,r-ind=1,1
          [3,3]((10,12,55),(16,19,87),(15,18,82)); lvl=6; h,r-ind=1,1
          [3,3]((10,12,55),(9,11,50),(15,18,82)); lvl=6; h,r-ind=1,1
          [3,3]((4,5,23),(10,12,55),(9,11,50)); lvl=6; h,r-ind=1,1
          [3,3]((11,13,60),(10,12,55),(16,19,87)); lvl=6; h,r-ind=1,1
          [3,3]((4,5,23),(11,13,60),(10,12,55)); lvl=6; h,r-ind=1,1
        [3,3]((8,10,45),(4,5,23),(9,11,50)); lvl=5; h,r-ind=1,1
      [5,3]((4,5,22),(5,6,27),(5,6,26),(6,7,31),(13,15,68)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,26),(22,26,115),(6,7,31)); lvl=5; h,r-ind=1,1
        [4,3]((12,14,63),(11,13,58),(22,26,115),(6,7,31)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((11,13,58),(22,26,115),(17,20,89)); lvl=6; h,r-ind=1,1
          [3,3]((6,7,31),(22,26,115),(17,20,89)); lvl=6; h,r-ind=1,1
          [3,3]((12,14,63),(11,13,58),(17,20,89)); lvl=6; h,r-ind=1,1
          [3,3]((6,7,31),(12,14,63),(17,20,89)); lvl=6; h,r-ind=1,1
        [3,3]((12,14,63),(13,15,68),(6,7,31)); lvl=5; h,r-ind=1,1
        [3,3]((12,14,63),(5,6,27),(13,15,68)); lvl=5; h,r-ind=1,1
        [5,3]((4,5,22),(11,13,58),(20,24,107),(5,6,26),(22,26,115)); lvl=5; h,r-ind=1,1
          [4,3]((11,13,58),(16,19,84),(21,25,111),(26,31,137)); lvl=6; h,r-ind=1,1
            [3,3]((16,19,84),(26,31,137),(37,44,195)); lvl=7; h,r-ind=1,1
            [3,3]((21,25,111),(26,31,137),(37,44,195)); lvl=7; h,r-ind=1,1
            [3,3]((11,13,58),(16,19,84),(37,44,195)); lvl=7; h,r-ind=1,1
            [3,3]((21,25,111),(11,13,58),(37,44,195)); lvl=7; h,r-ind=1,1
          [4,3]((10,12,53),(25,30,133),(21,25,111),(26,31,137)); lvl=6; h,r-ind=1,1
            [3,3]((31,37,164),(21,25,111),(25,30,133)); lvl=7; h,r-ind=1,1
            [3,3]((10,12,53),(31,37,164),(25,30,133)); lvl=7; h,r-ind=1,1
            [3,3]((10,12,53),(26,31,137),(31,37,164)); lvl=7; h,r-ind=1,1
            [3,3]((26,31,137),(31,37,164),(21,25,111)); lvl=7; h,r-ind=1,1
          [3,3]((4,5,22),(10,12,53),(25,30,133)); lvl=6; h,r-ind=1,1
          [3,3]((4,5,22),(25,30,133),(15,18,80)); lvl=6; h,r-ind=1,1
          [3,3]((5,6,26),(16,19,84),(26,31,137)); lvl=6; h,r-ind=1,1
          [3,3]((10,12,53),(5,6,26),(26,31,137)); lvl=6; h,r-ind=1,1
          [3,3]((4,5,22),(10,12,53),(5,6,26)); lvl=6; h,r-ind=1,1
          [4,3]((25,30,133),(15,18,80),(11,13,58),(21,25,111)); lvl=6; h,r-ind=1,1
            [3,3]((36,43,191),(11,13,58),(15,18,80)); lvl=7; h,r-ind=1,1
            [3,3]((25,30,133),(36,43,191),(15,18,80)); lvl=7; h,r-ind=1,1
            [3,3]((21,25,111),(25,30,133),(36,43,191)); lvl=7; h,r-ind=1,1
            [3,3]((21,25,111),(36,43,191),(11,13,58)); lvl=7; h,r-ind=1,1
          [3,3]((15,18,80),(20,24,107),(11,13,58)); lvl=6; h,r-ind=1,1
          [3,3]((4,5,22),(15,18,80),(20,24,107)); lvl=6; h,r-ind=1,1
          [3,3]((22,26,115),(11,13,58),(16,19,84)); lvl=6; h,r-ind=1,1
          [3,3]((5,6,26),(22,26,115),(16,19,84)); lvl=6; h,r-ind=1,1
        [4,3]((12,14,63),(11,13,58),(20,24,107),(5,6,27)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((11,13,58),(16,19,85),(20,24,107)); lvl=6; h,r-ind=1,1
          [3,3]((5,6,27),(16,19,85),(20,24,107)); lvl=6; h,r-ind=1,1
          [3,3]((12,14,63),(5,6,27),(16,19,85)); lvl=6; h,r-ind=1,1
          [3,3]((12,14,63),(11,13,58),(16,19,85)); lvl=6; h,r-ind=1,1
        [3,3]((4,5,22),(20,24,107),(5,6,27)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,22),(8,10,43),(5,6,26)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,22),(8,10,45),(5,6,27)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,26),(6,7,31),(12,14,61)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,5),(9,10,44),(1,1,4)); lvl=3; h,r-ind=1,1
  [3,3]((4,5,25),(4,5,24),(1,1,5)); lvl=2; h,r-ind=1,1
  [5,3]((1,1,3),(3,4,12),(8,10,39),(3,4,15),(1,1,4)); lvl=2; h,r-ind=1,1
    [5,3]((1,1,3),(3,4,12),(6,8,27),(7,8,28),(8,10,35)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,17),(5,6,21),(7,9,31),(8,10,35)); lvl=4; h,r-ind=1,1
        [3,3]((12,15,52),(8,10,35),(5,6,21)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,17),(12,15,52),(5,6,21)); lvl=5; h,r-ind=1,1
        [3,3]((7,9,31),(12,15,52),(8,10,35)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,17),(7,9,31),(12,15,52)); lvl=5; h,r-ind=1,1
      [3,3]((5,6,20),(4,5,17),(5,6,21)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,3),(5,6,20),(7,8,28),(5,6,21)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,6,20),(6,7,24),(5,6,21)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,28),(6,7,24),(5,6,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,3),(5,6,20),(6,7,24)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,28),(1,1,3),(6,7,24)); lvl=5; h,r-ind=1,1
      [4,3]((4,5,17),(6,8,27),(3,4,13),(7,9,31)); lvl=4; h,r-ind=1,1
        [3,3]((10,13,44),(6,8,27),(3,4,13)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,17),(10,13,44),(3,4,13)); lvl=5; h,r-ind=1,1
        [3,3]((7,9,31),(10,13,44),(6,8,27)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,17),(7,9,31),(10,13,44)); lvl=5; h,r-ind=1,1
      [3,3]((5,6,20),(4,5,17),(3,4,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,3),(3,4,12),(5,6,20),(3,4,13)); lvl=4; h,r-ind=1,2; alert-r-inc
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          [3,3]((3,4,12),(4,5,16),(3,4,13)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,20),(4,5,16),(3,4,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(3,4,12),(4,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,20),(1,1,3),(4,5,16)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,4),(4,5,19),(7,8,28),(8,10,35)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((5,6,21),(4,5,18),(11,13,47)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,1,4),(4,5,19),(4,5,18),(11,13,47)); lvl=4; h,r-ind=1,3
          [3,3]((5,6,22),(4,5,18),(4,5,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(5,6,22),(4,5,19)); lvl=5; h,r-ind=1,1
          [3,3]((11,13,47),(5,6,22),(4,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(11,13,47),(5,6,22)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,4),(7,8,28),(5,6,21),(11,13,47)); lvl=4; h,r-ind=1,3
          [3,3]((6,7,25),(5,6,21),(7,8,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(6,7,25),(7,8,28)); lvl=5; h,r-ind=1,1
          [3,3]((11,13,47),(6,7,25),(5,6,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(11,13,47),(6,7,25)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,21),(8,10,35),(4,5,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,4),(7,8,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(4,5,19),(8,10,39)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,15),(4,5,19),(8,10,39)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,15),(4,5,19),(6,8,27),(8,10,35)); lvl=3; h,r-ind=3,1; alert-h-inc
        [3,3]((4,5,18),(8,10,35),(7,9,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,14),(4,5,18),(7,9,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,14),(6,8,27),(7,9,31)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,15),(3,4,14),(4,5,19),(4,5,18)); lvl=4; h,r-ind=1,1
          [3,3]((7,9,33),(4,5,18),(4,5,19)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,15),(7,9,33),(4,5,19)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,14),(7,9,33),(4,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,15),(3,4,14),(7,9,33)); lvl=5; h,r-ind=1,1
    [3,3]((1,1,3),(6,8,23),(3,4,12)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,24),(8,10,39),(3,4,19),(3,4,15)); lvl=2; h,r-ind=1,1
      [4,3]((4,5,24),(8,10,43),(3,4,19),(3,4,17)); lvl=3; h,r-ind=1,1
        [4,3]((4,5,22),(8,10,45),(3,4,17),(3,4,18)); lvl=4; h,r-ind=1,1
          [3,3]((7,9,40),(3,4,17),(3,4,18)); lvl=5; h,r-ind=1,1
          [3,3]((8,10,45),(7,9,40),(3,4,18)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,22),(7,9,40),(3,4,17)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,22),(8,10,45),(7,9,40)); lvl=5; h,r-ind=1,1
        [4,3]((4,5,24),(8,10,45),(3,4,19),(3,4,18)); lvl=4; h,r-ind=1,1
          [3,3]((10,13,60),(3,4,18),(3,4,19)); lvl=5; h,r-ind=1,1
          [4,3]((4,5,24),(4,5,23),(10,13,60),(3,4,19)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((4,5,23),(7,9,42),(10,13,60)); lvl=6; h,r-ind=1,1
            [3,3]((3,4,19),(7,9,42),(10,13,60)); lvl=6; h,r-ind=1,1
            [3,3]((4,5,24),(3,4,19),(7,9,42)); lvl=6; h,r-ind=1,1
            [3,3]((4,5,24),(4,5,23),(7,9,42)); lvl=6; h,r-ind=1,1
          [3,3]((4,5,23),(10,13,60),(3,4,18)); lvl=5; h,r-ind=1,1
          [3,3]((8,10,45),(4,5,23),(3,4,18)); lvl=5; h,r-ind=1,1
        [3,3]((8,10,43),(4,5,22),(3,4,17)); lvl=4; h,r-ind=1,1
      [4,3]((8,10,43),(4,5,20),(3,4,15),(3,4,17)); lvl=3; h,r-ind=1,1
        [4,3]((4,5,21),(3,4,16),(3,4,15),(4,5,20)); lvl=4; h,r-ind=1,1
          [3,3]((7,9,36),(3,4,15),(3,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,21),(7,9,36),(3,4,16)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,20),(7,9,36),(3,4,15)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,21),(4,5,20),(7,9,36)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,21),(3,4,17),(3,4,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,21),(8,10,43),(3,4,17)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,39),(4,5,20),(3,4,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,25),(4,5,24),(3,4,19)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(1,1,5)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((2,2,11),(15,17,94),(1,1,5),(4,5,25),(4,5,26)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,11),(15,17,94),(7,8,44)); lvl=2; h,r-ind=1,1
    [5,3]((2,2,11),(6,7,38),(7,8,43),(13,14,75),(7,8,44)); lvl=2; h,r-ind=1,1
      [4,3]((13,14,75),(10,11,59),(2,2,11),(11,12,65)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((12,13,70),(11,12,65),(10,11,59)); lvl=4; h,r-ind=1,1
        [3,3]((13,14,75),(12,13,70),(10,11,59)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,70),(2,2,11),(11,12,65)); lvl=4; h,r-ind=1,1
        [3,3]((13,14,75),(12,13,70),(2,2,11)); lvl=4; h,r-ind=1,1
      [4,3]((8,9,49),(17,19,103),(2,2,11),(11,12,65)); lvl=3; h,r-ind=1,1
        [3,3]((11,12,65),(17,19,103),(19,21,114)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,49),(17,19,103),(19,21,114)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,11),(8,9,49),(19,21,114)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,11),(11,12,65),(19,21,114)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,44),(8,9,49),(2,2,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,38),(7,8,44),(8,9,49)); lvl=3; h,r-ind=1,1
      [5,3]((15,17,92),(17,19,103),(7,8,43),(10,11,59),(11,12,65)); lvl=3; h,r-ind=1,1
        [3,3]((9,10,54),(10,11,59),(11,12,65)); lvl=4; h,r-ind=1,1
        [3,3]((17,19,103),(9,10,54),(11,12,65)); lvl=4; h,r-ind=1,1
        [3,3]((15,17,92),(17,19,103),(9,10,54)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,43),(9,10,54),(10,11,59)); lvl=4; h,r-ind=1,1
        [3,3]((15,17,92),(7,8,43),(9,10,54)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,38),(15,17,92),(7,8,43)); lvl=3; h,r-ind=1,1
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      [4,3]((6,7,38),(8,9,49),(15,17,92),(17,19,103)); lvl=3; h,r-ind=1,1
        [3,3]((23,26,141),(17,19,103),(8,9,49)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,38),(23,26,141),(8,9,49)); lvl=4; h,r-ind=1,1
        [3,3]((15,17,92),(23,26,141),(17,19,103)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,38),(15,17,92),(23,26,141)); lvl=4; h,r-ind=1,1
    [4,3]((5,6,31),(4,5,26),(6,7,38),(7,8,43)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((6,7,37),(7,8,43),(6,7,38),(5,6,32)); lvl=3; h,r-ind=1,1
        [3,3]((12,14,75),(6,7,38),(7,8,43)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,37),(12,14,75),(7,8,43)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,32),(12,14,75),(6,7,38)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,37),(5,6,32),(12,14,75)); lvl=4; h,r-ind=1,1
      [4,3]((5,6,31),(6,7,37),(4,5,26),(5,6,32)); lvl=3; h,r-ind=1,1
        [3,3]((10,12,63),(5,6,32),(6,7,37)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,31),(10,12,63),(6,7,37)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,26),(10,12,63),(5,6,32)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,31),(4,5,26),(10,12,63)); lvl=4; h,r-ind=1,1
    [3,3]((5,6,31),(4,5,25),(4,5,26)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,5),(5,6,31),(4,5,25)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,5),(5,6,31),(7,8,43),(13,14,75)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,1,5),(9,10,53),(6,7,37),(5,6,31)); lvl=3; h,r-ind=1,2
        [3,3]((7,8,42),(9,10,53),(6,7,37)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,31),(7,8,42),(6,7,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(5,6,31),(7,8,42)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(7,8,42),(9,10,53)); lvl=4; h,r-ind=1,1
      [3,3]((9,10,53),(7,8,43),(6,7,37)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((10,11,59),(9,10,53),(7,8,43)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((1,1,5),(10,11,59),(13,14,75),(9,10,53)); lvl=3; h,r-ind=1,2
        [3,3]((11,12,64),(13,14,75),(10,11,59)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,53),(11,12,64),(10,11,59)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(9,10,53),(11,12,64)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(11,12,64),(13,14,75)); lvl=4; h,r-ind=1,1
    [3,3]((2,2,11),(1,1,5),(13,14,75)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,23),(3,4,21),(15,17,94),(4,5,26)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,27),(4,5,26),(3,4,21)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,22),(8,10,55),(4,5,27),(3,4,21)); lvl=2; h,r-ind=1,1
      [3,3]((7,9,49),(8,10,55),(4,5,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,21),(7,9,49),(4,5,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,22),(3,4,21),(7,9,49)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,22),(7,9,49),(8,10,55)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,23),(3,4,22),(8,10,55),(9,11,61)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,22),(15,19,105),(8,10,55)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,28),(9,11,61),(15,19,105),(8,10,55)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,11,61),(12,15,83),(8,10,55)); lvl=4; h,r-ind=1,1
        [3,3]((15,19,105),(12,15,83),(8,10,55)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,28),(15,19,105),(12,15,83)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,28),(9,11,61),(12,15,83)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,28),(3,4,22),(15,19,105)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,23),(4,5,28),(3,4,22)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,27),(6,7,38),(5,6,33),(4,5,26)); lvl=2; h,r-ind=1,1
      [4,3]((14,17,92),(5,6,32),(6,7,38),(5,6,33)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((10,12,65),(6,7,38),(5,6,32)); lvl=4; h,r-ind=1,1
        [3,3]((14,17,92),(10,12,65),(5,6,32)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,33),(14,17,92),(10,12,65)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,33),(10,12,65),(6,7,38)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,27),(14,17,92),(5,6,33)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,27),(14,17,92),(4,5,26),(5,6,32)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,6,32),(14,17,92),(9,11,59)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,27),(14,17,92),(9,11,59)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,26),(5,6,32),(9,11,59)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,27),(4,5,26),(9,11,59)); lvl=4; h,r-ind=1,1
    [3,3]((7,8,44),(6,7,38),(5,6,33)); lvl=2; h,r-ind=1,1
    [3,3]((15,17,94),(7,8,44),(6,7,39)); lvl=2; h,r-ind=1,1
    [4,3]((8,10,55),(9,11,61),(4,5,27),(5,6,33)); lvl=2; h,r-ind=1,1
      [3,3]((13,16,88),(5,6,33),(9,11,61)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,55),(13,16,88),(9,11,61)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,27),(13,16,88),(5,6,33)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,55),(4,5,27),(13,16,88)); lvl=3; h,r-ind=1,1
    [4,3]((7,8,44),(6,7,39),(9,11,61),(5,6,33)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,39),(9,11,61),(11,13,72)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,33),(9,11,61),(11,13,72)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,44),(5,6,33),(11,13,72)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,44),(6,7,39),(11,13,72)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,23),(6,7,39),(9,11,61)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(2,2,11),(1,1,5)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,23),(1,0,0),(2,2,11),(15,17,94)); lvl=1; h,r-ind=1,1
    [3,3]((5,5,28),(1,0,0),(2,2,11)); lvl=2; h,r-ind=1,1
    [4,3]((9,10,56),(5,5,28),(12,13,73),(2,2,11)); lvl=2; h,r-ind=1,1
      [3,3]((14,15,84),(5,5,28),(12,13,73)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,56),(14,15,84),(12,13,73)); lvl=3; h,r-ind=1,1
      [3,3]((14,15,84),(2,2,11),(5,5,28)); lvl=3; h,r-ind=1,1
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      [3,3]((9,10,56),(14,15,84),(2,2,11)); lvl=3; h,r-ind=1,1
    [4,3]((9,10,56),(15,17,94),(6,7,39),(2,2,11)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((6,7,39),(15,17,94),(8,9,50)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,11),(15,17,94),(8,9,50)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,56),(6,7,39),(8,9,50)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,11),(9,10,56),(8,9,50)); lvl=3; h,r-ind=1,1
    [4,3]((5,5,28),(8,9,51),(12,13,73),(1,0,0)); lvl=2; h,r-ind=1,1
      [3,3]((15,16,90),(10,11,62),(12,13,73)); lvl=3; h,r-ind=1,1
      [4,3]((5,5,28),(15,16,90),(23,24,135),(12,13,73)); lvl=3; h,r-ind=1,1
        [3,3]((20,21,118),(23,24,135),(15,16,90)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,73),(20,21,118),(15,16,90)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,28),(12,13,73),(20,21,118)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,28),(20,21,118),(23,24,135)); lvl=4; h,r-ind=1,1
      [4,3]((15,16,90),(23,24,135),(3,3,17),(10,11,62)); lvl=3; h,r-ind=1,1
        [3,3]((3,3,17),(18,19,107),(23,24,135)); lvl=4; h,r-ind=1,1
        [3,3]((15,16,90),(18,19,107),(23,24,135)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,62),(15,16,90),(18,19,107)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,62),(3,3,17),(18,19,107)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,17),(8,9,51),(10,11,62)); lvl=3; h,r-ind=1,1
      [4,3]((5,5,28),(23,24,135),(3,3,17),(1,0,0)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,3,17),(8,8,45),(23,24,135)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,28),(8,8,45),(23,24,135)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,17),(8,8,45)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,28),(1,0,0),(8,8,45)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,23),(8,9,51),(1,0,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((9,10,56),(8,9,51),(12,13,73),(5,6,34)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((7,8,45),(9,10,56),(12,13,73),(10,11,62)); lvl=3; h,r-ind=1,1
        [3,3]((12,13,73),(9,10,56),(19,21,118)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,45),(9,10,56),(19,21,118)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,62),(7,8,45),(19,21,118)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,62),(12,13,73),(19,21,118)); lvl=4; h,r-ind=1,1
      [4,3]((5,6,34),(7,8,45),(8,9,51),(10,11,62)); lvl=3; h,r-ind=1,1
        [3,3]((10,11,62),(7,8,45),(15,17,96)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,34),(7,8,45),(15,17,96)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,51),(5,6,34),(15,17,96)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,51),(10,11,62),(15,17,96)); lvl=4; h,r-ind=1,1
    [3,3]((9,10,56),(6,7,39),(5,6,34)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,4,23),(6,7,39),(5,6,34)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,23),(8,9,51),(5,6,34)); lvl=2; h,r-ind=1,1
  [5,3]((0,1,0),(1,0,0),(1,1,3),(6,8,23),(2,3,8)); lvl=1; h,r-ind=1,1
    [4,3]((5,6,15),(6,7,17),(1,1,3),(2,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((7,8,20),(2,2,5),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,15),(7,8,20),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,17),(7,8,20),(2,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,15),(6,7,17),(7,8,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(1,0,0),(2,2,5)); lvl=2; h,r-ind=1,1
    [5,3]((6,7,17),(3,4,6),(3,4,8),(1,0,0),(2,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(6,7,17),(9,11,25)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,1,2),(3,4,8),(9,11,25)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,1,2),(3,4,8),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(1,1,2),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,6),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,5),(6,7,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,0,0),(2,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,2),(1,0,0)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(3,4,6),(1,0,0)); lvl=2; h,r-ind=6,6; alert-h-inc; alert-r-inc; optimized-h
    [6,3]((2,3,7),(3,4,10),(5,6,15),(6,7,17),(3,4,8),(2,3,6)); lvl=2; h,r-ind=1,1
      [4,3]((7,9,21),(4,5,12),(3,4,10),(6,8,19)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,12),(3,4,10),(10,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,19),(3,4,10),(10,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,21),(4,5,12),(10,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,19),(7,9,21),(10,13,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(3,4,10),(6,8,19)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,7),(3,4,9),(7,9,21),(6,8,19)); lvl=3; h,r-ind=1,1
        [3,3]((9,12,28),(7,9,21),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(9,12,28),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,19),(9,12,28),(7,9,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(6,8,19),(9,12,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,6),(3,4,9)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,9),(9,11,25),(7,9,21),(3,4,8)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,11),(8,10,23),(9,11,25)); lvl=4; h,r-ind=1,1
        [4,3]((4,5,11),(18,23,52),(11,14,32),(8,10,23)); lvl=4; h,r-ind=1,1
          [3,3]((18,23,52),(15,19,43),(11,14,32)); lvl=5; h,r-ind=1,1
          [3,3]((8,10,23),(15,19,43),(11,14,32)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,11),(8,10,23),(15,19,43)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,11),(18,23,52),(15,19,43)); lvl=5; h,r-ind=1,1
        [3,3]((7,9,21),(11,14,32),(8,10,23)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,9),(3,4,8),(4,5,11),(18,23,52)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((7,9,20),(4,5,11),(3,4,8)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,9),(7,9,20),(3,4,8)); lvl=5; h,r-ind=1,1
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          [3,3]((18,23,52),(7,9,20),(4,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,9),(18,23,52),(7,9,20)); lvl=5; h,r-ind=1,1
        [4,3]((3,4,9),(7,9,21),(18,23,52),(11,14,32)); lvl=4; h,r-ind=1,1
          [3,3]((7,9,21),(14,18,41),(11,14,32)); lvl=5; h,r-ind=1,1
          [3,3]((18,23,52),(14,18,41),(11,14,32)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,9),(18,23,52),(14,18,41)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,9),(7,9,21),(14,18,41)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,6),(3,4,9),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(5,6,15),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,17),(4,5,12),(5,6,15)); lvl=3; h,r-ind=1,1
      [4,3]((9,11,25),(7,9,21),(6,7,17),(4,5,12)); lvl=3; h,r-ind=1,1
        [4,3]((21,26,61),(12,15,35),(7,9,21),(4,5,12)); lvl=4; h,r-ind=1,1
          [3,3]((16,20,47),(12,15,35),(7,9,21)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,12),(16,20,47),(7,9,21)); lvl=5; h,r-ind=1,1
          [3,3]((21,26,61),(16,20,47),(12,15,35)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,12),(21,26,61),(16,20,47)); lvl=5; h,r-ind=1,1
        [4,3]((6,7,17),(5,6,14),(21,26,61),(4,5,12)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((5,6,14),(21,26,61),(9,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,12),(21,26,61),(9,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,17),(5,6,14),(9,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,12),(6,7,17),(9,11,26)); lvl=5; h,r-ind=1,1
        [4,3]((8,10,23),(5,6,14),(21,26,61),(12,15,35)); lvl=4; h,r-ind=1,1
          [3,3]((21,26,61),(5,6,14),(17,21,49)); lvl=5; h,r-ind=1,1
          [3,3]((8,10,23),(5,6,14),(17,21,49)); lvl=5; h,r-ind=1,1
          [3,3]((12,15,35),(21,26,61),(17,21,49)); lvl=5; h,r-ind=1,1
          [3,3]((12,15,35),(8,10,23),(17,21,49)); lvl=5; h,r-ind=1,1
        [3,3]((9,11,25),(8,10,23),(5,6,14)); lvl=4; h,r-ind=1,1
        [3,3]((8,10,23),(12,15,35),(7,9,21)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,4),(2,3,7),(2,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,7),(4,7,14)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(2,3,6),(2,3,7),(4,7,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,6),(3,5,10),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,14),(3,5,10),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,3,6),(3,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,14),(1,2,3),(3,5,10)); lvl=4; h,r-ind=1,1
      [4,3]((0,1,0),(1,2,3),(1,2,4),(4,7,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,4,7),(1,2,3),(4,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,7),(1,2,4),(4,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,4,7),(1,2,4)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,4,7),(1,2,3)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(3,4,6),(3,4,8),(2,3,6)); lvl=2; h,r-ind=2,1; alert-h-inc
      [3,3]((3,4,8),(2,3,5),(3,4,7)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,6),(3,4,6),(2,3,5),(3,4,7)); lvl=3; h,r-ind=1,1
        [4,3]((3,4,6),(2,3,4),(7,10,16),(3,4,7)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,7,11),(2,3,4),(7,10,16)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,11),(3,4,7),(7,10,16)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,6),(5,7,11),(3,4,7)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,6),(5,7,11),(2,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,5),(7,10,16),(3,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(2,3,4),(7,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(3,5,6),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(3,4,8),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(1,2,3),(2,3,5)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(3,5,6),(1,2,3),(2,3,5)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,5),(1,2,2),(4,7,10)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,3),(0,1,0),(1,2,2),(4,7,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(0,1,0),(2,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,10),(1,2,2),(2,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(4,7,10),(2,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(3,5,6),(1,2,2)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,10),(5,6,15),(1,1,3),(3,4,11)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,3),(4,5,13),(5,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(4,5,13),(5,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,11),(3,4,10),(4,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,11),(1,1,3),(4,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((6,8,23),(1,1,3),(3,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(6,8,23),(3,4,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,7),(3,4,10),(2,3,8),(3,4,11)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,18),(3,4,11),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,18),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(5,7,18),(3,4,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,8),(5,7,18)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,4),(2,3,7),(2,3,8)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(1,2,7),(2,3,8),(2,3,13)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,13),(1,2,6),(2,4,11),(4,6,21)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,11),(3,5,16),(5,9,28)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((2,3,11),(3,5,17),(9,16,51),(3,5,16),(5,9,28)); lvl=3; h,r-ind=1,1
      [4,3]((8,14,45),(7,12,39),(4,7,22),(5,9,28)); lvl=4; h,r-ind=1,1
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      [3,3]((12,21,67),(4,7,22),(7,12,39)); lvl=5; h,r-ind=1,1
      [3,3]((8,14,45),(12,21,67),(7,12,39)); lvl=5; h,r-ind=1,1
      [3,3]((5,9,28),(12,21,67),(4,7,22)); lvl=5; h,r-ind=1,1
      [3,3]((8,14,45),(5,9,28),(12,21,67)); lvl=5; h,r-ind=1,1
    [3,3]((8,14,45),(9,16,51),(5,9,28)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,17),(8,14,45),(9,16,51)); lvl=4; h,r-ind=1,1
    [5,3]((2,3,11),(3,5,16),(12,20,67),(7,12,39),(4,7,22)); lvl=4; h,r-ind=1,1
      [4,3]((15,25,83),(9,15,50),(13,22,72),(7,12,39)); lvl=5; h,r-ind=1,1
        [3,3]((9,15,50),(7,12,39),(22,37,122)); lvl=6; h,r-ind=1,1
        [3,3]((13,22,72),(7,12,39),(22,37,122)); lvl=6; h,r-ind=1,1
        [3,3]((15,25,83),(13,22,72),(22,37,122)); lvl=6; h,r-ind=1,1
        [3,3]((15,25,83),(9,15,50),(22,37,122)); lvl=6; h,r-ind=1,1
      [3,3]((4,7,22),(13,22,72),(7,12,39)); lvl=5; h,r-ind=1,1
      [4,3]((6,10,33),(15,25,83),(4,7,22),(13,22,72)); lvl=5; h,r-ind=1,1
        [3,3]((13,22,72),(15,25,83),(19,32,105)); lvl=6; h,r-ind=1,1
        [3,3]((6,10,33),(15,25,83),(19,32,105)); lvl=6; h,r-ind=1,1
        [3,3]((4,7,22),(6,10,33),(19,32,105)); lvl=6; h,r-ind=1,1
        [3,3]((4,7,22),(13,22,72),(19,32,105)); lvl=6; h,r-ind=1,1
      [3,3]((6,10,33),(3,5,16),(4,7,22)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,11),(6,10,33),(3,5,16)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,11),(6,10,33),(15,25,83)); lvl=5; h,r-ind=1,1
      [3,3]((12,20,67),(9,15,50),(7,12,39)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,11),(12,20,67),(9,15,50)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,11),(15,25,83),(9,15,50)); lvl=5; h,r-ind=1,1
    [4,3]((3,5,17),(12,20,67),(8,14,45),(7,12,39)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((10,17,56),(7,12,39),(12,20,67)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,17),(10,17,56),(12,20,67)); lvl=5; h,r-ind=1,1
      [3,3]((8,14,45),(10,17,56),(7,12,39)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,17),(8,14,45),(10,17,56)); lvl=5; h,r-ind=1,1
    [3,3]((2,3,11),(3,5,17),(12,20,67)); lvl=4; h,r-ind=1,1
  [3,3]((2,3,11),(4,6,21),(3,5,16)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,11),(4,6,23),(3,5,17)); lvl=3; h,r-ind=1,1
  [4,3]((9,16,51),(1,2,6),(2,4,11),(5,9,28)); lvl=3; h,r-ind=1,1
    [3,3]((6,11,34),(1,2,6),(2,4,11)); lvl=4; h,r-ind=1,1
    [3,3]((6,11,34),(5,9,28),(2,4,11)); lvl=4; h,r-ind=1,1
    [3,3]((9,16,51),(6,11,34),(5,9,28)); lvl=4; h,r-ind=1,1
    [3,3]((9,16,51),(6,11,34),(1,2,6)); lvl=4; h,r-ind=1,1
  [5,3]((2,3,13),(4,6,23),(3,5,17),(9,16,51),(1,2,6)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,17),(9,15,52),(4,6,23),(5,8,29)); lvl=4; h,r-ind=1,1
      [3,3]((8,13,46),(9,15,52),(5,8,29)); lvl=5; h,r-ind=1,1
      [3,3]((4,6,23),(8,13,46),(5,8,29)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,17),(4,6,23),(8,13,46)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,17),(8,13,46),(9,15,52)); lvl=5; h,r-ind=1,1
    [3,3]((2,3,12),(4,6,23),(5,8,29)); lvl=4; h,r-ind=1,1
    [5,3]((2,3,12),(7,12,41),(10,17,58),(9,15,52),(5,8,29)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,35),(10,17,58),(7,12,41)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,12),(6,10,35),(7,12,41)); lvl=5; h,r-ind=1,1
      [3,3]((6,10,35),(9,15,52),(10,17,58)); lvl=5; h,r-ind=1,1
      [3,3]((6,10,35),(5,8,29),(9,15,52)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,12),(6,10,35),(5,8,29)); lvl=5; h,r-ind=1,1
    [4,3]((2,3,12),(2,3,13),(7,12,41),(1,2,6)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((3,5,18),(2,3,13),(1,2,6)); lvl=5; h,r-ind=1,1
      [3,3]((7,12,41),(3,5,18),(1,2,6)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,12),(7,12,41),(3,5,18)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,12),(3,5,18),(2,3,13)); lvl=5; h,r-ind=1,1
    [4,3]((3,5,17),(4,7,23),(10,17,58),(9,15,52)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,23),(10,17,58),(13,22,75)); lvl=5; h,r-ind=1,1
      [3,3]((9,15,52),(10,17,58),(13,22,75)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,17),(4,7,23),(13,22,75)); lvl=5; h,r-ind=1,1
      [3,3]((9,15,52),(3,5,17),(13,22,75)); lvl=5; h,r-ind=1,1
    [3,3]((3,5,17),(4,7,23),(9,16,51)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,6),(4,7,23),(9,16,51)); lvl=4; h,r-ind=1,1
    [4,3]((7,12,41),(1,2,6),(4,7,23),(10,17,58)); lvl=4; h,r-ind=1,1
      [3,3]((11,19,64),(4,7,23),(1,2,6)); lvl=5; h,r-ind=1,1
      [3,3]((7,12,41),(11,19,64),(1,2,6)); lvl=5; h,r-ind=1,1
      [3,3]((10,17,58),(7,12,41),(11,19,64)); lvl=5; h,r-ind=1,1
      [3,3]((10,17,58),(11,19,64),(4,7,23)); lvl=5; h,r-ind=1,1
[4,3]((1,2,4),(2,3,8),(2,4,11),(4,6,21)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,5),(2,3,10),(4,6,19)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,4),(1,2,5),(2,3,8),(4,6,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(4,6,19),(2,3,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(4,7,18),(2,3,9)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(2,3,8),(4,7,18),(2,3,9)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,9),(3,5,13),(2,3,8)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,13),(2,3,8)); lvl=5; h,r-ind=1,1
      [3,3]((4,7,18),(1,2,4),(3,5,13)); lvl=5; h,r-ind=1,1
      [3,3]((4,7,18),(2,3,9),(3,5,13)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,4),(4,7,18)); lvl=4; h,r-ind=1,1
  [3,3]((3,5,16),(1,2,5),(2,3,10)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,16),(4,6,21),(2,3,10)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((3,5,16),(2,4,11),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,4),(2,4,11)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,7),(2,3,13),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,7),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,6),(2,4,11)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,22),(0,1,0),(1,2,7)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,23),(3,5,22),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
```

23.45 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,5,23)); lvl=0; h,r-ind=23,529
  [5,3]((1,0,0),(0,1,0),(2,2,5),(6,10,23),(1,2,4)); lvl=1; h,r-ind=1,1
    [4,3]((3,5,10),(6,10,23),(2,3,7),(1,2,4)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,3,7),(3,5,11),(6,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,11),(6,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,10),(1,2,4),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,10),(2,3,7),(3,5,11)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(3,5,10),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,7),(1,2,3),(3,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(1,2,4),(3,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,7),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,7),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,8),(3,5,10),(2,3,7)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,1,2),(3,4,8),(2,2,5),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,7),(3,4,9),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,9),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,5),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,5),(2,3,7),(3,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,5),(1,2,3),(3,4,8),(3,5,10)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,6),(3,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,14),(2,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,8),(2,3,5),(5,8,14),(2,3,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,6,11),(5,8,14),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,8),(4,6,11),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,6),(3,4,8),(4,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,6),(4,6,11),(5,8,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,3),(5,8,14)); lvl=3; h,r-ind=1,1
    [5,3]((1,1,2),(2,3,4),(2,3,5),(3,4,8),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,7),(2,3,5),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,7),(1,1,2),(3,4,8)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,8),(3,4,7),(6,8,13),(1,1,2)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,7),(6,8,13),(7,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(6,8,13),(7,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(4,5,8),(7,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(3,4,7),(7,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(1,1,2)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,11),(3,4,7),(6,8,13),(2,3,5)); lvl=3; h,r-ind=1,1
        [3,3]((8,11,18),(6,8,13),(3,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(8,11,18),(3,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(2,3,5),(8,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,11),(8,11,18),(6,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(5,7,11),(2,3,5)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,4),(4,5,8),(5,7,11),(6,8,13)); lvl=3; h,r-ind=1,1
        [4,3]((3,4,6),(4,5,8),(6,8,13),(14,19,30)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((9,12,19),(4,5,8),(6,8,13)); lvl=5; h,r-ind=1,1
          [3,3]((14,19,30),(9,12,19),(6,8,13)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,6),(14,19,30),(9,12,19)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,6),(9,12,19),(4,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,11),(6,8,13),(14,19,30)); lvl=4; h,r-ind=1,1
        [4,3]((5,7,11),(2,3,4),(3,4,6),(14,19,30)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,6),(2,3,4),(8,11,17)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,11),(2,3,4),(8,11,17)); lvl=5; h,r-ind=1,1
          [3,3]((14,19,30),(3,4,6),(8,11,17)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,11),(14,19,30),(8,11,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(4,5,8)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(0,1,0),(2,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(2,3,4),(2,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,2),(2,3,4),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,4),(3,5,7),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,10),(3,5,7),(2,3,5)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,10),(1,2,2),(3,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=4; h,r-ind=1,1
[5,3]((3,5,18),(1,2,6),(4,7,25),(6,10,23),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((4,7,24),(4,7,25),(1,2,6)); lvl=2; h,r-ind=1,1
  [4,3]((4,7,20),(1,2,5),(4,7,24),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(8,15,44),(1,2,6)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,22),(4,7,24),(8,15,44),(1,2,6)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((6,11,34),(1,2,6),(4,7,23),(4,7,24)); lvl=4; h,r-ind=1,2
        [3,3]((4,7,23),(4,7,24),(5,9,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,6),(4,7,24),(5,9,29)); lvl=5; h,r-ind=1,1
        [3,3]((6,11,34),(1,2,6),(5,9,29)); lvl=5; h,r-ind=1,1
        [3,3]((6,11,34),(4,7,23),(5,9,29)); lvl=5; h,r-ind=1,1
      [3,3]((4,7,22),(6,11,34),(4,7,23)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((4,7,22),(6,11,33),(6,11,34)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((8,15,44),(6,11,33),(6,11,34),(1,2,6)); lvl=4; h,r-ind=1,2
        [3,3]((7,13,39),(6,11,33),(6,11,34)); lvl=5; h,r-ind=1,1
        [3,3]((7,13,39),(1,2,6),(6,11,34)); lvl=5; h,r-ind=1,1
        [3,3]((8,15,44),(7,13,39),(1,2,6)); lvl=5; h,r-ind=1,1
        [3,3]((8,15,44),(7,13,39),(6,11,33)); lvl=5; h,r-ind=1,1
    [4,3]((4,7,20),(4,7,22),(1,2,5),(8,15,44)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,2,5),(6,11,32),(8,15,44),(6,11,33)); lvl=4; h,r-ind=1,2
        [3,3]((7,13,38),(6,11,32),(6,11,33)); lvl=5; h,r-ind=1,1
        [3,3]((8,15,44),(7,13,38),(6,11,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(8,15,44),(7,13,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(7,13,38),(6,11,32)); lvl=5; h,r-ind=1,1
      [3,3]((4,7,22),(6,11,32),(6,11,33)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((4,7,21),(4,7,22),(6,11,32)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((4,7,21),(4,7,20),(1,2,5),(6,11,32)); lvl=4; h,r-ind=1,2
        [3,3]((1,2,5),(5,9,26),(4,7,20)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,21),(5,9,26),(4,7,20)); lvl=5; h,r-ind=1,1
        [3,3]((6,11,32),(4,7,21),(5,9,26)); lvl=5; h,r-ind=1,1
        [3,3]((6,11,32),(1,2,5),(5,9,26)); lvl=5; h,r-ind=1,1
  [4,3]((3,5,18),(6,10,29),(4,7,20),(4,7,24)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,16),(3,5,15),(4,7,20),(4,7,22)); lvl=3; h,r-ind=1,1
      [4,3]((10,17,52),(4,7,21),(4,7,20),(3,5,15)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,12,36),(4,7,20),(4,7,21)); lvl=5; h,r-ind=1,1
        [3,3]((10,17,52),(7,12,36),(4,7,21)); lvl=5; h,r-ind=1,1
        [3,3]((7,12,36),(3,5,15),(4,7,20)); lvl=5; h,r-ind=1,1
        [3,3]((10,17,52),(7,12,36),(3,5,15)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,16),(10,17,52),(3,5,15)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,16),(10,17,52),(4,7,21),(4,7,22)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,7,21),(7,12,37),(10,17,52)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,16),(7,12,37),(10,17,52)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,22),(3,5,16),(7,12,37)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,22),(4,7,21),(7,12,37)); lvl=5; h,r-ind=1,1
    [4,3]((4,7,24),(3,5,18),(3,5,16),(4,7,22)); lvl=3; h,r-ind=2,1; alert-h-inc
      [4,3]((4,7,23),(4,7,22),(3,5,17),(3,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,17),(3,5,16),(7,12,39)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,22),(3,5,16),(7,12,39)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,23),(4,7,22),(7,12,39)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,23),(3,5,17),(7,12,39)); lvl=5; h,r-ind=1,1
      [4,3]((4,7,24),(4,7,23),(3,5,17),(3,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,23),(3,5,17),(7,12,41)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,18),(3,5,17),(7,12,41)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,24),(4,7,23),(7,12,41)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,18),(4,7,24),(7,12,41)); lvl=5; h,r-ind=1,1
    [3,3]((3,5,15),(6,10,29),(4,7,20)); lvl=3; h,r-ind=1,1
  [5,3]((6,10,29),(3,5,12),(4,7,20),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,27),(1,2,4),(1,2,5)); lvl=3; h,r-ind=1,1
    [5,3]((3,5,14),(6,10,27),(6,11,27),(8,14,39),(1,2,5)); lvl=3; h,r-ind=1,1
      [4,3]((4,7,18),(9,16,42),(1,2,5),(6,11,27)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((5,9,23),(9,16,42),(1,2,5)); lvl=5; h,r-ind=1,1
        [3,3]((6,11,27),(5,9,23),(1,2,5)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,18),(5,9,23),(9,16,42)); lvl=5; h,r-ind=1,1
        [3,3]((6,11,27),(4,7,18),(5,9,23)); lvl=5; h,r-ind=1,1
      [4,3]((9,16,42),(12,21,56),(4,7,19),(1,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((13,23,61),(4,7,19),(12,21,56)); lvl=5; h,r-ind=1,1
        [3,3]((9,16,42),(13,23,61),(12,21,56)); lvl=5; h,r-ind=1,1
        [3,3]((13,23,61),(1,2,5),(4,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((9,16,42),(13,23,61),(1,2,5)); lvl=5; h,r-ind=1,1
      [3,3]((4,7,19),(8,14,39),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,14),(4,7,19),(8,14,39)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,14),(11,19,51),(12,21,56),(4,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((11,19,51),(12,21,56),(15,26,70)); lvl=5; h,r-ind=1,1
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          [3,3]((4,7,19),(12,21,56),(15,26,70)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,14),(4,7,19),(15,26,70)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,14),(11,19,51),(15,26,70)); lvl=5; h,r-ind=1,1
        [5,3]((4,7,18),(7,12,32),(9,16,42),(11,19,51),(12,21,56)); lvl=4; h,r-ind=1,1
          [3,3]((8,14,37),(12,21,56),(11,19,51)); lvl=5; h,r-ind=1,1
          [3,3]((8,14,37),(7,12,32),(11,19,51)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,18),(8,14,37),(7,12,32)); lvl=5; h,r-ind=1,1
          [3,3]((8,14,37),(9,16,42),(12,21,56)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,18),(8,14,37),(9,16,42)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,18),(6,10,27),(7,12,32)); lvl=4; h,r-ind=1,1
        [4,3]((3,5,14),(6,10,27),(7,12,32),(11,19,51)); lvl=4; h,r-ind=1,1
          [3,3]((10,17,46),(7,12,32),(6,10,27)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,14),(10,17,46),(6,10,27)); lvl=5; h,r-ind=1,1
          [3,3]((10,17,46),(11,19,51),(7,12,32)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,14),(10,17,46),(11,19,51)); lvl=5; h,r-ind=1,1
      [3,3]((8,14,39),(4,7,20),(1,2,5)); lvl=3; h,r-ind=1,1
      [4,3]((6,10,29),(3,5,14),(8,14,39),(4,7,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,12,34),(8,14,39),(3,5,14)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,29),(7,12,34),(3,5,14)); lvl=4; h,r-ind=1,1
        [3,3]((7,12,34),(4,7,20),(8,14,39)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,29),(7,12,34),(4,7,20)); lvl=4; h,r-ind=1,1
      [4,3]((6,10,27),(6,11,27),(3,5,12),(1,2,4)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((4,7,18),(9,16,39),(1,2,4),(6,11,27)); lvl=4; h,r-ind=1,3
          [3,3]((5,9,22),(1,2,4),(9,16,39)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,18),(5,9,22),(9,16,39)); lvl=5; h,r-ind=1,1
          [3,3]((6,11,27),(5,9,22),(1,2,4)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,18),(6,11,27),(5,9,22)); lvl=5; h,r-ind=1,1
        [4,3]((3,5,13),(9,16,39),(3,5,12),(1,2,4)); lvl=4; h,r-ind=1,3
          [3,3]((4,7,17),(1,2,4),(9,16,39)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,13),(4,7,17),(9,16,39)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,12),(4,7,17),(1,2,4)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,13),(3,5,12),(4,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((4,7,18),(3,5,13),(9,16,39)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((4,7,18),(6,10,27),(3,5,13)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,12),(6,10,23),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,18),(4,7,24),(4,7,25)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,6),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((0,1,0),(4,7,28),(6,11,44),(1,2,6),(4,7,25)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,7),(4,7,28),(5,9,36)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,7),(6,11,44),(5,9,36)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,22),(1,2,7),(6,11,44)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,6,22),(1,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,7),(8,14,53),(4,7,28)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,7),(4,7,25),(8,14,53)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,6),(1,2,7),(4,7,25)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,6),(1,2,7)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,23),(4,7,28),(3,5,21),(6,11,44)); lvl=1; h,r-ind=2,1
    [3,3]((4,7,29),(4,7,28),(3,5,21)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,29),(3,5,22),(3,5,21)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,23),(9,16,67),(4,7,29),(3,5,22)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,29),(4,7,30),(9,16,67)); lvl=3; h,r-ind=1,1
      [3,3]((11,19,81),(4,7,29),(4,7,30)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,23),(3,5,22),(11,19,81),(4,7,30)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,12,52),(11,19,81),(3,5,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,23),(7,12,52),(3,5,22)); lvl=4; h,r-ind=1,1
        [3,3]((7,12,52),(4,7,30),(11,19,81)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,23),(7,12,52),(4,7,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,22),(11,19,81),(4,7,29)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,29),(5,9,36),(4,7,28)); lvl=2; h,r-ind=1,1
    [4,3]((9,16,67),(4,7,29),(6,11,44),(5,9,36)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,29),(5,9,36),(14,25,102)); lvl=3; h,r-ind=1,1
      [4,3]((6,11,44),(5,9,37),(5,9,36),(14,25,102)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((10,18,73),(14,25,102),(5,9,37)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,44),(10,18,73),(5,9,37)); lvl=4; h,r-ind=1,1
        [3,3]((10,18,73),(5,9,36),(14,25,102)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,44),(10,18,73),(5,9,36)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,37),(4,7,29),(14,25,102)); lvl=3; h,r-ind=1,1
      [3,3]((9,16,67),(5,9,37),(4,7,29)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,23),(0,1,0),(6,11,44)); lvl=1; h,r-ind=6,6; optimized-h
  [5,3]((1,1,4),(3,5,18),(2,3,12),(2,2,5),(6,10,23)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,11),(2,3,12),(3,5,18)); lvl=2; h,r-ind=1,1
    [4,3]((6,10,29),(2,3,9),(2,3,11),(3,5,18)); lvl=2; h,r-ind=1,1
      [4,3]((3,5,18),(3,5,16),(2,3,11),(2,3,10)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,11),(7,11,38),(2,3,10)); lvl=4; h,r-ind=1,1
        [4,3]((3,5,17),(3,5,16),(7,11,38),(2,3,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,8,27),(3,5,16),(2,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((7,11,38),(5,8,27),(2,3,10)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,17),(7,11,38),(5,8,27)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,17),(5,8,27),(3,5,16)); lvl=5; h,r-ind=1,1
        [4,3]((3,5,18),(3,5,17),(2,3,11),(7,11,38)); lvl=4; h,r-ind=1,2; alert-r-inc
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          [3,3]((3,5,17),(7,11,38),(5,8,28)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,11),(7,11,38),(5,8,28)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,18),(3,5,17),(5,8,28)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,11),(3,5,18),(5,8,28)); lvl=5; h,r-ind=1,1
      [4,3]((3,5,15),(3,5,16),(2,3,9),(2,3,10)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,9),(2,3,10),(5,8,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,16),(2,3,10),(5,8,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,15),(3,5,16),(5,8,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,15),(2,3,9),(5,8,25)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,29),(3,5,15),(2,3,9)); lvl=3; h,r-ind=1,1
    [4,3]((6,10,29),(3,5,12),(2,3,9),(2,3,8)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,9),(2,3,8),(9,14,39)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,12),(6,10,27),(2,3,8),(9,14,39)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,3,8),(12,19,51),(9,14,39),(5,8,22)); lvl=4; h,r-ind=1,3
          [3,3]((7,11,30),(12,19,51),(5,8,22)); lvl=5; h,r-ind=1,1
          [3,3]((9,14,39),(7,11,30),(5,8,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,8),(9,14,39),(7,11,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,8),(7,11,30),(12,19,51)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,13),(12,19,51),(5,8,22)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,5,13),(6,10,27),(5,8,22)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,8),(3,5,12),(3,5,13),(12,19,51)); lvl=4; h,r-ind=1,3
          [3,3]((5,8,21),(3,5,12),(3,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((12,19,51),(5,8,21),(3,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,8),(12,19,51),(5,8,21)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,8),(5,8,21),(3,5,12)); lvl=5; h,r-ind=1,1
      [4,3]((3,5,14),(6,10,27),(2,3,9),(9,14,39)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,9),(5,8,22),(9,14,39)); lvl=4; h,r-ind=1,1
        [3,3]((10,16,45),(2,3,9),(5,8,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,14),(10,16,45),(2,3,9)); lvl=4; h,r-ind=1,1
        [4,3]((3,5,14),(10,16,45),(5,8,22),(6,10,27)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((10,16,45),(8,13,36),(5,8,22)); lvl=5; h,r-ind=1,1
          [3,3]((6,10,27),(8,13,36),(5,8,22)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,14),(6,10,27),(8,13,36)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,14),(10,16,45),(8,13,36)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,14),(6,10,29),(2,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,9),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(1,1,3),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,5),(2,3,7),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,5,12),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(6,10,23),(3,5,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,4),(1,1,3),(2,3,9),(2,3,11)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,3),(4,5,17),(2,3,10),(2,3,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,13),(4,5,17),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(3,4,13),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(2,3,9),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(3,4,13),(4,5,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(1,1,3),(4,5,17)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,11),(1,1,4),(4,5,17),(2,3,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,1,4),(4,5,17),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(4,5,17),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(2,3,10),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(1,1,4),(3,4,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,4),(2,3,11),(2,3,12)); lvl=2; h,r-ind=1,1
[6,3]((4,7,28),(3,5,21),(2,3,13),(3,5,18),(4,7,25),(2,3,12)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,19),(3,5,18),(2,3,12)); lvl=2; h,r-ind=1,1
    [4,3]((6,10,39),(3,5,19),(5,8,32),(2,3,12)); lvl=2; h,r-ind=1,1
      [3,3]((8,13,51),(2,3,12),(3,5,19)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,39),(8,13,51),(3,5,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,32),(8,13,51),(2,3,12)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,39),(5,8,32),(8,13,51)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,13),(5,8,32),(2,3,12)); lvl=2; h,r-ind=1,1
    [4,3]((4,7,25),(8,14,53),(6,10,39),(3,5,19)); lvl=2; h,r-ind=1,1
      [4,3]((4,7,26),(10,17,65),(17,29,110),(7,12,46)); lvl=3; h,r-ind=1,1
        [3,3]((17,29,110),(14,24,91),(10,17,65)); lvl=4; h,r-ind=1,1
        [3,3]((7,12,46),(14,24,91),(10,17,65)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,26),(7,12,46),(14,24,91)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,26),(17,29,110),(14,24,91)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,26),(8,14,53),(7,12,46)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,39),(10,17,65),(7,12,46)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,19),(6,10,39),(10,17,65),(17,29,110)); lvl=3; h,r-ind=1,1
        [3,3]((13,22,84),(6,10,39),(10,17,65)); lvl=4; h,r-ind=1,1
        [3,3]((17,29,110),(13,22,84),(10,17,65)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,19),(17,29,110),(13,22,84)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,19),(13,22,84),(6,10,39)); lvl=4; h,r-ind=1,1
      [4,3]((4,7,25),(4,7,26),(3,5,19),(17,29,110)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((4,7,26),(7,12,45),(17,29,110)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,19),(7,12,45),(17,29,110)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,25),(3,5,19),(7,12,45)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,25),(4,7,26),(7,12,45)); lvl=4; h,r-ind=1,1
    [4,3]((4,7,28),(3,5,20),(8,14,53),(6,10,39)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((10,17,66),(6,10,39),(7,12,46)); lvl=3; h,r-ind=1,1
      [4,3]((4,7,27),(10,17,66),(17,29,113),(7,12,46)); lvl=3; h,r-ind=1,1
        [3,3]((14,24,93),(17,29,113),(10,17,66)); lvl=4; h,r-ind=1,1
        [3,3]((7,12,46),(14,24,93),(10,17,66)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,27),(7,12,46),(14,24,93)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,27),(14,24,93),(17,29,113)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,27),(8,14,53),(7,12,46)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,20),(10,17,66),(17,29,113),(6,10,39)); lvl=3; h,r-ind=1,1
        [3,3]((17,29,113),(13,22,86),(10,17,66)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,39),(13,22,86),(10,17,66)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,20),(6,10,39),(13,22,86)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,20),(17,29,113),(13,22,86)); lvl=4; h,r-ind=1,1
      [4,3]((4,7,28),(4,7,27),(3,5,20),(17,29,113)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((7,12,47),(4,7,27),(17,29,113)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,20),(7,12,47),(17,29,113)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,28),(7,12,47),(4,7,27)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,20),(4,7,28),(7,12,47)); lvl=4; h,r-ind=1,1
    [4,3]((3,5,20),(2,3,13),(6,10,39),(5,8,32)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,13),(5,8,32),(8,13,52)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,39),(5,8,32),(8,13,52)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,20),(2,3,13),(8,13,52)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,39),(3,5,20),(8,13,52)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,20),(3,5,21),(2,3,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,28),(3,5,20),(3,5,21)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,25),(3,5,19),(3,5,18)); lvl=2; h,r-ind=1,1
  [5,3]((5,7,31),(3,3,13),(1,1,4),(2,3,13),(2,3,12)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,17),(2,3,12),(1,1,4)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,17),(10,13,56),(8,10,43),(1,1,4)); lvl=2; h,r-ind=1,1
      [3,3]((11,14,60),(8,10,43),(10,13,56)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,17),(11,14,60),(10,13,56)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(11,14,60),(8,10,43)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,17),(1,1,4),(11,14,60)); lvl=3; h,r-ind=1,1
    [4,3]((3,3,13),(5,6,26),(8,10,43),(1,1,4)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,26),(8,10,43),(6,7,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(8,10,43),(6,7,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,13),(5,6,26),(6,7,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,4),(3,3,13),(6,7,30)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,22),(3,3,13),(5,6,26)); lvl=2; h,r-ind=1,1
    [6,3]((6,8,35),(10,13,56),(9,12,52),(4,5,22),(5,6,26),(8,10,43)); lvl=2; h,r-ind=1,1
      [3,3]((7,9,39),(5,6,26),(8,10,43)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,56),(7,9,39),(8,10,43)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,52),(10,13,56),(7,9,39)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,35),(9,12,52),(7,9,39)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,22),(7,9,39),(5,6,26)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,35),(4,5,22),(7,9,39)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,31),(6,8,35),(4,5,22)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,17),(2,3,13),(2,3,12)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,17),(10,13,56),(9,12,52),(2,3,13)); lvl=2; h,r-ind=1,1
      [3,3]((12,16,69),(9,12,52),(10,13,56)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,17),(12,16,69),(10,13,56)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(12,16,69),(9,12,52)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,17),(2,3,13),(12,16,69)); lvl=3; h,r-ind=1,1
    [4,3]((5,7,31),(6,8,35),(9,12,52),(2,3,13)); lvl=2; h,r-ind=1,1
      [3,3]((8,11,48),(6,8,35),(9,12,52)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(8,11,48),(9,12,52)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,31),(8,11,48),(6,8,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(5,7,31),(8,11,48)); lvl=3; h,r-ind=1,1
  [3,3]((4,6,27),(5,7,31),(2,3,13)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(4,6,27),(5,7,31),(3,3,13)); lvl=1; h,r-ind=1,1
    [4,3]((4,6,27),(5,6,27),(4,5,22),(5,7,31)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,18),(5,6,27),(4,5,22)); lvl=3; h,r-ind=1,1
      [3,3]((12,16,71),(3,4,18),(4,5,22)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,31),(12,16,71),(4,5,22)); lvl=3; h,r-ind=1,1
      [4,3]((4,6,27),(5,7,31),(12,16,71),(3,4,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,11,49),(5,7,31),(12,16,71)); lvl=4; h,r-ind=1,1
        [3,3]((8,11,49),(3,4,18),(12,16,71)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,27),(8,11,49),(3,4,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,27),(8,11,49),(5,7,31)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(3,3,13),(5,6,27),(4,5,22)); lvl=2; h,r-ind=1,1
      [3,3]((9,10,44),(4,5,22),(3,3,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,9),(9,10,44),(3,3,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,5,22),(2,2,9),(9,10,44)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,13),(5,5,22),(9,10,44)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(5,5,22),(2,2,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,13),(1,0,0),(5,5,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,9),(9,10,44),(4,5,22)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,27),(2,2,9),(4,5,22)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,13),(1,1,4)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,23),(4,6,27),(3,5,21),(2,3,13)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,27),(2,3,13),(7,11,49)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((3,5,21),(3,5,22),(2,3,13),(7,11,49)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,8,35),(3,5,22),(7,11,49)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(5,8,35),(7,11,49)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,21),(5,8,35),(3,5,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(3,5,21),(5,8,35)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,23),(3,5,22),(7,11,49)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,5,23),(4,6,27),(7,11,49)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(3,5,23),(4,6,27)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(1,1,4),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
```

23.46 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,6,23)); lvl=0; h,r-ind=23,529
  [4,3]((4,5,18),(2,3,11),(1,2,6),(3,6,22)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,11),(9,14,50),(1,2,7),(3,6,22)); lvl=2; h,r-ind=1,4; alert-r-inc
      [3,3]((1,2,7),(3,5,18),(9,14,50)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,11),(3,5,18),(9,14,50)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,22),(1,2,7),(3,5,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,11),(3,6,22),(3,5,18)); lvl=3; h,r-ind=1,1
    [4,3]((6,9,32),(9,14,50),(4,6,21),(1,2,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,7),(9,14,50),(7,11,39)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,32),(9,14,50),(7,11,39)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,32),(4,6,21),(7,11,39)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,21),(1,2,7),(7,11,39)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,6),(5,7,24),(4,6,21),(1,2,7)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,10),(7,11,38),(4,6,21),(5,7,24)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,9,31),(7,11,38),(4,6,21)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,24),(6,9,31),(4,6,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(5,7,24),(6,9,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(6,9,31),(7,11,38)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(2,3,10),(7,11,38)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(1,2,6),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(7,11,38),(4,6,21)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,18),(6,9,32),(5,7,24),(4,6,21)); lvl=2; h,r-ind=1,1
      [4,3]((16,23,81),(9,13,46),(4,6,21),(6,9,32)); lvl=3; h,r-ind=1,1
        [3,3]((4,6,21),(13,19,67),(6,9,32)); lvl=4; h,r-ind=1,1
        [3,3]((9,13,46),(13,19,67),(6,9,32)); lvl=4; h,r-ind=1,1
        [3,3]((9,13,46),(16,23,81),(13,19,67)); lvl=4; h,r-ind=1,1
        [3,3]((16,23,81),(4,6,21),(13,19,67)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,25),(9,13,46),(6,9,32)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,25),(3,4,14),(16,23,81),(9,13,46)); lvl=3; h,r-ind=1,1
        [3,3]((12,17,60),(3,4,14),(16,23,81)); lvl=4; h,r-ind=1,1
        [3,3]((12,17,60),(9,13,46),(16,23,81)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,25),(12,17,60),(9,13,46)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,25),(12,17,60),(3,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,25),(4,5,18),(3,4,14)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,14),(16,23,81),(5,7,24),(4,6,21)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((16,23,81),(7,10,35),(4,6,21)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,24),(7,10,35),(4,6,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,14),(5,7,24),(7,10,35)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,14),(16,23,81),(7,10,35)); lvl=4; h,r-ind=1,1
    [4,3]((4,5,18),(6,9,32),(2,3,11),(9,14,50)); lvl=2; h,r-ind=1,1
      [3,3]((8,12,43),(6,9,32),(9,14,50)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,11),(8,12,43),(9,14,50)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,25),(15,22,79),(8,12,43),(6,9,32)); lvl=3; h,r-ind=1,1
        [3,3]((13,19,68),(15,22,79),(8,12,43)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,32),(13,19,68),(8,12,43)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,25),(6,9,32),(13,19,68)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,25),(13,19,68),(15,22,79)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,11),(4,5,18),(5,7,25),(15,22,79)); lvl=3; h,r-ind=1,1
        [3,3]((7,10,36),(5,7,25),(4,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(7,10,36),(4,5,18)); lvl=4; h,r-ind=1,1
        [3,3]((15,22,79),(7,10,36),(5,7,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(15,22,79),(7,10,36)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,11),(15,22,79),(8,12,43)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,6),(3,6,22)); lvl=1; h,r-ind=4,4; optimized-h
  [5,3]((5,9,34),(2,3,11),(5,7,26),(2,4,15),(3,6,22)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,26),(2,4,15),(3,6,22)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,26),(2,3,11),(3,6,22)); lvl=2; h,r-ind=1,1
    [4,3]((4,7,26),(13,22,82),(11,18,67),(2,3,11)); lvl=2; h,r-ind=1,1
      [3,3]((15,25,93),(11,18,67),(13,22,82)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,26),(15,25,93),(13,22,82)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,11),(15,25,93),(11,18,67)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,26),(2,3,11),(15,25,93)); lvl=3; h,r-ind=1,1
    [4,3]((7,11,41),(11,18,67),(5,7,26),(2,3,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,11),(9,14,52),(11,18,67)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,41),(9,14,52),(11,18,67)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((5,7,26),(7,11,41),(9,14,52)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,26),(2,3,11),(9,14,52)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,30),(7,11,41),(5,7,26)); lvl=2; h,r-ind=1,1
    [4,3]((11,19,71),(4,7,26),(13,22,82),(2,4,15)); lvl=2; h,r-ind=1,1
      [3,3]((13,22,82),(4,7,26),(15,26,97)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,15),(4,7,26),(15,26,97)); lvl=3; h,r-ind=1,1
      [3,3]((11,19,71),(13,22,82),(15,26,97)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,15),(11,19,71),(15,26,97)); lvl=3; h,r-ind=1,1
    [4,3]((5,9,34),(7,12,45),(11,19,71),(2,4,15)); lvl=2; h,r-ind=1,1
      [3,3]((9,16,60),(7,12,45),(11,19,71)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,15),(9,16,60),(11,19,71)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,34),(9,16,60),(7,12,45)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,15),(5,9,34),(9,16,60)); lvl=3; h,r-ind=1,1
    [6,3]((5,8,30),(7,12,45),(11,19,71),(7,11,41),(13,22,82),(11,18,67)); lvl=2; h,r-ind=1,1
      [3,3]((9,15,56),(13,22,82),(11,19,71)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,45),(9,15,56),(11,19,71)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,30),(7,12,45),(9,15,56)); lvl=3; h,r-ind=1,1
      [3,3]((9,15,56),(11,18,67),(13,22,82)); lvl=3; h,r-ind=1,1
      [3,3]((9,15,56),(7,11,41),(11,18,67)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,30),(9,15,56),(7,11,41)); lvl=3; h,r-ind=1,1
    [3,3]((5,9,34),(5,8,30),(7,12,45)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,15),(3,6,22)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,23),(0,1,0),(2,4,15)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,23),(5,9,34),(2,4,15)); lvl=1; h,r-ind=1,1
  [5,3]((3,6,23),(1,0,0),(3,3,11),(5,9,34),(5,7,26)); lvl=1; h,r-ind=1,1
    [4,3]((6,9,34),(3,4,15),(5,8,30),(5,7,26)); lvl=2; h,r-ind=1,1
      [3,3]((8,12,45),(3,4,15),(5,7,26)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,30),(8,12,45),(5,7,26)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,34),(8,12,45),(3,4,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,30),(6,9,34),(8,12,45)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,11),(3,4,15),(5,7,26)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,3,11),(3,4,15)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,19),(6,9,34),(5,9,34),(5,8,30)); lvl=2; h,r-ind=1,1
      [3,3]((6,9,34),(5,8,30),(8,13,49)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,34),(5,8,30),(8,13,49)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,19),(6,9,34),(8,13,49)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,34),(3,5,19),(8,13,49)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,23),(3,5,19),(5,9,34)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,5,19),(6,9,34)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,23),(1,0,0),(3,5,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(6,9,34),(3,4,15)); lvl=2; h,r-ind=1,1
  [4,3]((3,3,11),(4,5,18),(2,3,11),(5,7,26)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,18),(5,6,22),(2,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,26),(5,6,22),(2,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,3,11),(5,7,26),(5,6,22)); lvl=2; h,r-ind=1,1
    [3,3]((3,3,11),(4,5,18),(5,6,22)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(3,3,11),(4,5,18),(1,2,4),(1,2,6)); lvl=1; h,r-ind=1,1
    [4,3]((3,3,10),(2,2,7),(4,5,18),(5,7,24)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,14),(11,13,45),(2,2,7),(4,5,18)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((11,13,45),(5,6,21),(2,2,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,18),(5,6,21),(2,2,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,14),(4,5,18),(5,6,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,14),(11,13,45),(5,6,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,14),(5,7,24),(4,5,17)); lvl=3; h,r-ind=1,1
      [4,3]((3,3,10),(6,7,24),(11,13,45),(2,2,7)); lvl=3; h,r-ind=1,1
        [3,3]((8,9,31),(11,13,45),(6,7,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,10),(8,9,31),(6,7,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,7),(3,3,10),(8,9,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,7),(8,9,31),(11,13,45)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,14),(4,5,17),(6,7,24),(11,13,45)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,17),(9,11,38),(6,7,24)); lvl=4; h,r-ind=1,1
        [3,3]((11,13,45),(9,11,38),(6,7,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,14),(4,5,17),(9,11,38)); lvl=4; h,r-ind=1,1
        [3,3]((11,13,45),(3,4,14),(9,11,38)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,10),(4,5,17),(6,7,24)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,3),(3,3,10),(1,2,6),(5,7,24)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,10),(8,10,33),(4,5,17),(5,6,20)); lvl=3; h,r-ind=1,1
        [3,3]((7,9,30),(8,10,33),(5,6,20)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,17),(7,9,30),(5,6,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(4,5,17),(7,9,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(7,9,30),(8,10,33)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,10),(4,5,17),(5,6,20)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,3),(8,10,33),(3,3,10),(5,6,20)); lvl=3; h,r-ind=1,1
        [3,3]((8,10,33),(6,7,23),(5,6,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,10),(6,7,23),(5,6,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(8,10,33),(6,7,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,10),(1,1,3),(6,7,23)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,3),(1,2,6),(2,3,10),(8,10,33)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,4,13),(2,3,10),(1,2,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(3,4,13),(1,2,6)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((8,10,33),(3,4,13),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(8,10,33),(3,4,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(5,7,24),(4,5,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(3,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(1,1,3),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,5),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,2,5),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,2),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,7),(3,3,11),(4,5,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,7),(3,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,3,10),(2,2,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,4)); lvl=1; h,r-ind=4,8; optimized-h
```

23.47 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,7,23)); lvl=0; h,r-ind=23,529
  [4,3]((0,1,0),(2,5,8),(1,3,6),(2,5,11)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,5),(1,3,4),(2,5,8),(4,10,19)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,9),(1,3,4),(2,5,8),(4,11,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,13),(2,5,8),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,18),(3,8,13),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(4,11,18),(3,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(3,8,13),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,9),(4,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,9),(4,10,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,4),(4,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,11),(4,10,19)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,5),(1,3,6),(2,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,5),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
  [7,3]((3,7,17),(3,8,22),(5,12,36),(3,7,21),(1,3,7),(1,3,6),(2,5,11)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,13),(2,5,12),(3,7,17),(3,7,19)); lvl=2; h,r-ind=1,1
      [4,3]((7,17,43),(3,7,18),(2,5,12),(3,7,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,18),(3,7,17),(5,12,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(3,7,17),(5,12,30)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,43),(3,7,18),(5,12,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(7,17,43),(5,12,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(7,17,43),(2,5,12)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,13),(7,17,43),(3,7,19),(3,7,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,18),(3,7,19),(5,12,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,13),(3,7,19),(5,12,31)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,43),(3,7,18),(5,12,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,13),(7,17,43),(5,12,31)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,14),(2,5,13),(3,7,21),(3,7,19)); lvl=2; h,r-ind=1,1
      [4,3]((7,17,47),(2,5,13),(3,7,20),(3,7,19)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,33),(3,7,20),(3,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,33),(2,5,13),(3,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,47),(5,12,33),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,47),(5,12,33),(3,7,20)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,14),(7,17,47),(3,7,21),(3,7,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,20),(5,12,34),(3,7,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,14),(5,12,34),(3,7,21)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,47),(3,7,20),(5,12,34)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,14),(7,17,47),(5,12,34)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,14),(7,17,47),(2,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((5,12,36),(2,5,14),(3,7,21)); lvl=2; h,r-ind=1,1
    [3,3]((5,12,36),(4,10,29),(2,5,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,22),(4,10,29),(2,5,14)); lvl=2; h,r-ind=1,1
    [4,3]((4,11,26),(1,3,6),(2,5,13),(2,5,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,13),(3,8,19),(2,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(3,8,19),(2,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,26),(1,3,6),(3,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,26),(2,5,13),(3,8,19)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,14),(1,3,7),(4,11,26),(2,5,13)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,20),(4,11,26),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,14),(3,8,20),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,20),(2,5,13),(4,11,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,14),(3,8,20),(2,5,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,22),(2,5,14),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(4,11,26),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,11),(2,5,12),(3,7,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,11),(2,5,12)); lvl=2; h,r-ind=1,1
  [5,3]((5,12,36),(3,7,21),(9,20,63),(3,7,22),(7,16,51)); lvl=1; h,r-ind=1,1
```

```
    [5,3]((4,9,28),(7,16,50),(24,55,173),(8,18,57),(14,32,101)); lvl=2; h,r-ind=1,1
      [4,3]((11,25,79),(18,41,129),(21,48,151),(14,32,101)); lvl=3; h,r-ind=1,1
        [3,3]((18,41,129),(21,48,151),(32,73,230)); lvl=4; h,r-ind=1,1
        [3,3]((14,32,101),(21,48,151),(32,73,230)); lvl=4; h,r-ind=1,1
        [3,3]((11,25,79),(18,41,129),(32,73,230)); lvl=4; h,r-ind=1,1
        [3,3]((14,32,101),(11,25,79),(32,73,230)); lvl=4; h,r-ind=1,1
      [3,3]((24,55,173),(21,48,151),(14,32,101)); lvl=3; h,r-ind=1,1
      [3,3]((7,16,50),(24,55,173),(21,48,151)); lvl=3; h,r-ind=1,1
      [4,3]((7,16,50),(29,66,207),(18,41,129),(21,48,151)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((25,57,179),(18,41,129),(29,66,207)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,50),(25,57,179),(29,66,207)); lvl=4; h,r-ind=1,1
        [3,3]((21,48,151),(7,16,50),(25,57,179)); lvl=4; h,r-ind=1,1
        [3,3]((21,48,151),(25,57,179),(18,41,129)); lvl=4; h,r-ind=1,1
      [5,3]((4,9,28),(8,18,57),(11,25,79),(29,66,207),(18,41,129)); lvl=3; h,r-ind=1,1
        [3,3]((33,75,236),(11,25,79),(18,41,129)); lvl=4; h,r-ind=1,1
        [4,3]((37,84,264),(33,75,236),(22,50,157),(18,41,129)); lvl=4; h,r-ind=1,1
          [3,3]((55,125,393),(18,41,129),(33,75,236)); lvl=5; h,r-ind=1,1
          [3,3]((37,84,264),(55,125,393),(33,75,236)); lvl=5; h,r-ind=1,1
          [3,3]((22,50,157),(55,125,393),(18,41,129)); lvl=5; h,r-ind=1,1
          [3,3]((37,84,264),(22,50,157),(55,125,393)); lvl=5; h,r-ind=1,1
        [3,3]((22,50,157),(29,66,207),(18,41,129)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,28),(22,50,157),(29,66,207)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,28),(37,84,264),(22,50,157)); lvl=4; h,r-ind=1,1
        [4,3]((37,84,264),(33,75,236),(15,34,107),(11,25,79)); lvl=4; h,r-ind=1,1
          [3,3]((11,25,79),(33,75,236),(48,109,343)); lvl=5; h,r-ind=1,1
          [3,3]((37,84,264),(33,75,236),(48,109,343)); lvl=5; h,r-ind=1,1
          [3,3]((15,34,107),(37,84,264),(48,109,343)); lvl=5; h,r-ind=1,1
          [3,3]((15,34,107),(11,25,79),(48,109,343)); lvl=5; h,r-ind=1,1
        [3,3]((15,34,107),(8,18,57),(11,25,79)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,28),(15,34,107),(8,18,57)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,28),(37,84,264),(15,34,107)); lvl=4; h,r-ind=1,1
      [3,3]((7,16,50),(4,9,28),(29,66,207)); lvl=3; h,r-ind=1,1
    [3,3]((7,16,51),(8,18,57),(14,32,101)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((24,55,173),(3,7,22),(7,16,51),(14,32,101)); lvl=2; h,r-ind=1,1
      [3,3]((17,39,123),(3,7,22),(7,16,51)); lvl=3; h,r-ind=1,1
      [3,3]((17,39,123),(14,32,101),(7,16,51)); lvl=3; h,r-ind=1,1
      [3,3]((24,55,173),(17,39,123),(14,32,101)); lvl=3; h,r-ind=1,1
      [3,3]((24,55,173),(17,39,123),(3,7,22)); lvl=3; h,r-ind=1,1
    [4,3]((7,16,50),(24,55,173),(6,14,43),(3,7,22)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((10,23,72),(3,7,22),(6,14,43)); lvl=3; h,r-ind=1,1
      [3,3]((7,16,50),(10,23,72),(6,14,43)); lvl=3; h,r-ind=1,1
      [3,3]((24,55,173),(10,23,72),(3,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((7,16,50),(24,55,173),(10,23,72)); lvl=3; h,r-ind=1,1
    [3,3]((5,12,36),(6,14,43),(3,7,22)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,21),(4,9,28),(7,16,50),(6,14,43)); lvl=2; h,r-ind=1,1
      [3,3]((10,23,71),(7,16,50),(4,9,28)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,21),(10,23,71),(4,9,28)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,43),(10,23,71),(7,16,50)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,21),(6,14,43),(10,23,71)); lvl=3; h,r-ind=1,1
    [3,3]((5,12,36),(3,7,21),(6,14,43)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,28),(9,20,63),(8,18,57)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,23),(3,7,22),(7,16,51)); lvl=1; h,r-ind=1,1
  [5,3]((3,7,23),(9,20,63),(3,6,19),(2,4,13),(7,16,51)); lvl=1; h,r-ind=1,1
    [3,3]((3,6,19),(7,15,48),(2,4,13)); lvl=2; h,r-ind=1,1
    [4,3]((4,9,29),(9,20,64),(7,15,48),(2,4,13)); lvl=2; h,r-ind=1,1
      [3,3]((7,15,48),(9,20,64),(11,24,77)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,29),(9,20,64),(11,24,77)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,13),(4,9,29),(11,24,77)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,13),(7,15,48),(11,24,77)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,29),(3,7,23),(2,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,29),(7,16,51),(3,7,23)); lvl=2; h,r-ind=1,1
    [4,3]((6,13,41),(9,20,64),(3,6,19),(7,15,48)); lvl=2; h,r-ind=1,1
      [4,3]((5,11,35),(9,20,64),(7,15,48),(15,32,102)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,15,48),(12,26,83),(9,20,64)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,35),(12,26,83),(9,20,64)); lvl=4; h,r-ind=1,1
        [3,3]((15,32,102),(5,11,35),(12,26,83)); lvl=4; h,r-ind=1,1
        [3,3]((15,32,102),(7,15,48),(12,26,83)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,19),(7,15,48),(15,32,102)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,19),(5,11,35),(15,32,102)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,19),(6,13,41),(5,11,35)); lvl=3; h,r-ind=1,1
    [4,3]((9,20,63),(8,18,57),(6,13,41),(9,20,64)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,35),(9,20,64),(8,18,57)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,35),(22,49,155),(8,18,57)); lvl=3; h,r-ind=1,1
      [3,3]((9,20,63),(22,49,155),(8,18,57)); lvl=3; h,r-ind=1,1
      [4,3]((9,20,63),(5,11,35),(6,13,41),(22,49,155)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,13,41),(14,31,98),(5,11,35)); lvl=4; h,r-ind=1,1
        [3,3]((22,49,155),(14,31,98),(5,11,35)); lvl=4; h,r-ind=1,1
        [3,3]((9,20,63),(22,49,155),(14,31,98)); lvl=4; h,r-ind=1,1
        [3,3]((9,20,63),(6,13,41),(14,31,98)); lvl=4; h,r-ind=1,1
    [4,3]((8,18,57),(4,9,29),(7,16,51),(9,20,64)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((7,16,51),(4,9,29),(12,27,86)); lvl=3; h,r-ind=1,1
      [3,3]((9,20,64),(4,9,29),(12,27,86)); lvl=3; h,r-ind=1,1
      [3,3]((8,18,57),(9,20,64),(12,27,86)); lvl=3; h,r-ind=1,1
      [3,3]((8,18,57),(7,16,51),(12,27,86)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(3,7,23),(2,4,13)); lvl=1; h,r-ind=1,1
  [4,3]((4,7,22),(3,5,16),(3,6,19),(2,4,13)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,13),(3,6,19),(6,11,35)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,22),(3,6,19),(6,11,35)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,16),(4,7,22),(6,11,35)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,16),(2,4,13),(6,11,35)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,5,16),(2,4,13)); lvl=1; h,r-ind=1,1
  [4,3]((3,7,23),(3,8,22),(5,12,36),(3,7,22)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,15),(12,29,88),(4,10,29),(7,17,51)); lvl=2; h,r-ind=1,1
      [3,3]((9,22,66),(7,17,51),(12,29,88)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,15),(9,22,66),(12,29,88)); lvl=3; h,r-ind=1,1
      [3,3]((9,22,66),(4,10,29),(7,17,51)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,15),(9,22,66),(4,10,29)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,22),(5,12,36),(12,29,88),(7,17,51)); lvl=2; h,r-ind=1,1
      [3,3]((10,24,73),(5,12,36),(7,17,51)); lvl=3; h,r-ind=1,1
      [3,3]((12,29,88),(10,24,73),(7,17,51)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,22),(12,29,88),(10,24,73)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,22),(10,24,73),(5,12,36)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,22),(3,7,23),(2,5,15),(12,29,88)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((5,12,37),(2,5,15),(3,7,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,22),(5,12,37),(3,7,23)); lvl=3; h,r-ind=1,1
      [3,3]((12,29,88),(5,12,37),(2,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,22),(12,29,88),(5,12,37)); lvl=3; h,r-ind=1,1
    [3,3]((5,12,36),(4,10,29),(7,17,51)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,15),(4,10,29),(3,8,22)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,7),(1,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((3,8,22),(0,1,0),(1,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,23),(3,8,22),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((1,2,5),(3,7,17),(2,4,7),(2,5,8),(2,5,11)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,11),(3,7,17),(3,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(3,7,17),(3,7,16)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,14),(4,10,19),(2,5,11),(3,7,16)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,15),(3,7,16),(2,5,10),(2,5,11)); lvl=3; h,r-ind=1,1
        [3,3]((5,12,26),(2,5,11),(2,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,15),(5,12,26),(2,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,16),(5,12,26),(2,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,15),(3,7,16),(5,12,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,14),(3,7,15),(2,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,14),(4,10,19),(2,5,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(1,2,4),(3,7,14),(3,7,16)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,4),(5,11,24),(3,7,15),(3,7,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,9,19),(5,11,24),(3,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,14),(4,9,19),(3,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(3,7,14),(4,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(4,9,19),(5,11,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(5,11,24)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,16),(1,2,5),(5,11,24),(3,7,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,5),(5,11,24),(4,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,15),(5,11,24),(4,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,16),(1,2,5),(4,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,15),(3,7,16),(4,9,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(2,5,8),(3,7,14),(4,10,19)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,14),(6,14,27),(4,10,19),(2,5,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,23),(4,10,19),(2,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,27),(5,12,23),(2,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,14),(6,14,27),(5,12,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,14),(5,12,23),(4,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(6,14,27),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,8),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,14),(6,14,27)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(1,2,4),(2,5,8)); lvl=2; h,r-ind=1,1
  [5,3]((2,3,9),(1,2,5),(1,1,3),(1,1,2),(2,4,7)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,5),(1,2,4),(2,3,8),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,8),(2,3,7),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,7),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(1,2,4),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,8),(3,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,3),(4,5,12),(2,3,8),(2,3,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,8),(3,4,10),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(3,4,10),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,12),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,8),(3,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(1,1,3),(2,3,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(4,5,12),(1,2,4),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,9),(2,3,7),(4,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,9),(4,5,12)); lvl=3; h,r-ind=1,1
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```
      [3,3]((3,4,9),(1,2,4),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,9),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,4),(2,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,2),(4,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(1,2,5),(2,3,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,9),(4,7,22),(3,5,16),(1,1,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,16),(4,7,22),(5,8,25)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(4,7,22),(5,8,25)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(2,3,9),(5,8,25)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,5,16),(5,8,25)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,5,16),(1,1,3)); lvl=1; h,r-ind=1,1
  [7,3]((2,3,9),(4,7,22),(1,2,5),(3,7,17),(3,7,21),(9,20,63),(3,6,19)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,6),(3,7,19),(3,7,17)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,6),(1,2,5),(3,7,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(4,7,22),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(3,7,21),(3,7,19)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,6),(3,7,21),(4,9,28)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,6),(6,13,41),(4,9,28),(9,20,63)); lvl=2; h,r-ind=1,1
      [3,3]((6,13,41),(9,20,63),(10,22,69)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,28),(9,20,63),(10,22,69)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(6,13,41),(10,22,69)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,28),(1,2,6),(10,22,69)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(3,6,19),(6,13,41)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,22),(1,2,6),(3,6,19)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(0,1,0),(1,1,2),(2,4,7),(2,5,8)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,2),(1,2,3),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,2),(1,1,1),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,3),(1,1,1),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(1,2,2),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,3,4),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,8),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,2),(2,4,7),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,7),(1,2,3),(2,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
```

23.48 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,8,23)); lvl=0; h,r-ind=23,529
  [5,3]((5,13,35),(3,8,22),(9,25,66),(7,19,52),(3,8,21)); lvl=1; h,r-ind=1,1
    [5,3]((4,11,29),(8,22,59),(14,38,103),(24,65,176),(7,19,51)); lvl=2; h,r-ind=1,1
      [5,3]((4,11,29),(11,30,81),(8,22,59),(29,79,212),(18,49,132)); lvl=3; h,r-ind=1,1
        [4,3]((15,41,110),(37,101,271),(33,90,242),(11,30,81)); lvl=4; h,r-ind=1,1
          [3,3]((48,131,352),(33,90,242),(37,101,271)); lvl=5; h,r-ind=1,1
          [3,3]((15,41,110),(48,131,352),(37,101,271)); lvl=5; h,r-ind=1,1
          [3,3]((11,30,81),(48,131,352),(33,90,242)); lvl=5; h,r-ind=1,1
          [3,3]((15,41,110),(11,30,81),(48,131,352)); lvl=5; h,r-ind=1,1
        [3,3]((8,22,59),(15,41,110),(11,30,81)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,29),(8,22,59),(15,41,110)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,29),(15,41,110),(37,101,271)); lvl=4; h,r-ind=1,1
        [3,3]((18,49,132),(33,90,242),(11,30,81)); lvl=4; h,r-ind=1,1
        [4,3]((18,49,132),(37,101,271),(33,90,242),(22,60,161)); lvl=4; h,r-ind=1,1
          [3,3]((55,150,403),(37,101,271),(33,90,242)); lvl=5; h,r-ind=1,1
          [3,3]((18,49,132),(55,150,403),(33,90,242)); lvl=5; h,r-ind=1,1
          [3,3]((22,60,161),(18,49,132),(55,150,403)); lvl=5; h,r-ind=1,1
          [3,3]((22,60,161),(55,150,403),(37,101,271)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,29),(37,101,271),(22,60,161)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((29,79,212),(18,49,132),(22,60,161)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,29),(29,79,212),(22,60,161)); lvl=4; h,r-ind=1,1
    [4,3]((7,19,51),(21,57,154),(29,79,212),(18,49,132)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((21,57,154),(25,68,183),(18,49,132)); lvl=4; h,r-ind=1,1
      [3,3]((29,79,212),(25,68,183),(18,49,132)); lvl=4; h,r-ind=1,1
      [3,3]((7,19,51),(21,57,154),(25,68,183)); lvl=4; h,r-ind=1,1
      [3,3]((29,79,212),(7,19,51),(25,68,183)); lvl=4; h,r-ind=1,1
    [3,3]((4,11,29),(7,19,51),(29,79,212)); lvl=3; h,r-ind=1,1
    [3,3]((7,19,51),(21,57,154),(24,65,176)); lvl=3; h,r-ind=1,1
    [3,3]((14,38,103),(21,57,154),(24,65,176)); lvl=3; h,r-ind=1,1
    [4,3]((14,38,103),(21,57,154),(11,30,81),(18,49,132)); lvl=3; h,r-ind=1,1
      [3,3]((18,49,132),(21,57,154),(32,87,235)); lvl=4; h,r-ind=1,1
      [3,3]((14,38,103),(21,57,154),(32,87,235)); lvl=4; h,r-ind=1,1
      [3,3]((11,30,81),(14,38,103),(32,87,235)); lvl=4; h,r-ind=1,1
      [3,3]((11,30,81),(18,49,132),(32,87,235)); lvl=4; h,r-ind=1,1
  [4,3]((3,8,22),(6,16,43),(24,65,176),(7,19,51)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((10,27,73),(7,19,51),(6,16,43)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,22),(10,27,73),(6,16,43)); lvl=3; h,r-ind=1,1
    [3,3]((24,65,176),(10,27,73),(7,19,51)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,22),(24,65,176),(10,27,73)); lvl=3; h,r-ind=1,1
  [4,3]((3,8,21),(4,11,29),(6,16,43),(7,19,51)); lvl=2; h,r-ind=1,1
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    [3,3]((6,16,43),(7,19,51),(10,27,72)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,21),(4,11,29),(10,27,72)); lvl=3; h,r-ind=1,1
    [3,3]((6,16,43),(3,8,21),(10,27,72)); lvl=3; h,r-ind=1,1
  [3,3]((5,13,35),(3,8,21),(6,16,43)); lvl=2; h,r-ind=1,1
  [3,3]((5,13,35),(3,8,22),(6,16,43)); lvl=2; h,r-ind=1,1
  [3,3]((4,11,29),(8,22,59),(9,25,66)); lvl=2; h,r-ind=1,1
  [3,3]((7,19,52),(8,22,59),(14,38,103)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((7,19,52),(3,8,22),(14,38,103),(24,65,176)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,22),(24,65,176),(17,46,125)); lvl=3; h,r-ind=1,1
    [3,3]((14,38,103),(24,65,176),(17,46,125)); lvl=3; h,r-ind=1,1
    [3,3]((7,19,52),(14,38,103),(17,46,125)); lvl=3; h,r-ind=1,1
    [3,3]((7,19,52),(3,8,22),(17,46,125)); lvl=3; h,r-ind=1,1
[5,3]((3,8,23),(3,7,19),(9,20,56),(5,13,35),(3,8,22)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,14),(4,9,25),(9,20,56),(12,28,79)); lvl=2; h,r-ind=1,1
    [4,3]((13,30,84),(7,16,45),(9,20,56),(4,9,25)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((11,25,70),(7,16,45),(9,20,56)); lvl=4; h,r-ind=1,1
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      [3,3]((4,9,25),(13,30,84),(11,25,70)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,14),(13,30,84),(4,9,25)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,14),(13,30,84),(7,16,45)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,14),(12,28,79),(7,16,45)); lvl=3; h,r-ind=1,1
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  [3,3]((2,5,14),(3,8,22),(3,8,23)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,19),(2,5,14),(4,9,25)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,19),(4,10,27),(2,5,14)); lvl=2; h,r-ind=1,1
  [3,3]((5,13,35),(4,10,27),(2,5,14)); lvl=2; h,r-ind=1,1
  [3,3]((5,13,35),(2,5,14),(3,8,22)); lvl=2; h,r-ind=1,1
[5,3]((3,4,11),(1,2,5),(3,7,19),(3,5,14),(9,20,56)); lvl=1; h,r-ind=1,1
  [4,3]((12,25,70),(2,4,11),(4,9,25),(9,20,56)); lvl=2; h,r-ind=1,1
    [3,3]((13,28,78),(4,9,25),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((7,15,42),(13,28,78),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((7,15,42),(12,25,70),(2,4,11)); lvl=3; h,r-ind=1,1
    [4,3]((7,15,42),(13,28,78),(9,20,56),(4,9,25)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((13,28,78),(11,24,67),(4,9,25)); lvl=4; h,r-ind=1,1
      [3,3]((9,20,56),(11,24,67),(4,9,25)); lvl=4; h,r-ind=1,1
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  [3,3]((3,5,14),(12,25,70),(2,4,11)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((3,4,11),(3,5,14),(2,4,11)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,11),(2,3,8),(2,4,11)); lvl=2; h,r-ind=1,1
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  [3,3]((3,7,19),(2,4,11),(4,9,25)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,5),(3,7,19),(2,4,11)); lvl=2; h,r-ind=1,1
[3,3]((3,8,23),(3,5,14),(9,20,56)); lvl=1; h,r-ind=9,3; optimized-h
[3,3]((3,8,23),(3,8,22),(7,19,52)); lvl=1; h,r-ind=1,1
[5,3]((0,1,0),(3,8,16),(1,3,5),(9,25,66),(3,8,21)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,6),(1,3,5),(3,8,16)); lvl=2; h,r-ind=1,1
  [4,3]((2,6,13),(1,3,6),(6,16,37),(3,8,16)); lvl=2; h,r-ind=1,1
    [5,3]((11,31,67),(4,11,24),(1,3,6),(3,8,16),(6,16,35)); lvl=3; h,r-ind=1,1
      [4,3]((12,33,71),(6,16,35),(7,19,41),(4,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((11,30,65),(6,16,35),(7,19,41)); lvl=5; h,r-ind=1,1
        [3,3]((12,33,71),(11,30,65),(7,19,41)); lvl=5; h,r-ind=1,1
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      [4,3]((12,33,71),(13,36,77),(5,14,30),(4,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((13,36,77),(5,14,30),(17,47,101)); lvl=5; h,r-ind=1,1
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        [3,3]((12,33,71),(13,36,77),(17,47,101)); lvl=5; h,r-ind=1,1
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      [3,3]((11,31,67),(5,14,30),(4,11,24)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,6),(13,36,77),(9,25,53),(5,14,30)); lvl=4; h,r-ind=1,1
        [3,3]((9,25,53),(13,36,77),(14,39,83)); lvl=5; h,r-ind=1,1
        [3,3]((5,14,30),(13,36,77),(14,39,83)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(5,14,30),(14,39,83)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(9,25,53),(14,39,83)); lvl=5; h,r-ind=1,1
      [3,3]((11,31,67),(1,3,6),(5,14,30)); lvl=4; h,r-ind=1,1
      [3,3]((6,16,35),(3,8,17),(7,19,41)); lvl=4; h,r-ind=1,1
      [5,3]((12,33,71),(13,36,77),(9,25,53),(3,8,17),(7,19,41)); lvl=4; h,r-ind=1,1
        [3,3]((8,22,47),(9,25,53),(13,36,77)); lvl=5; h,r-ind=1,1
        [3,3]((12,33,71),(8,22,47),(13,36,77)); lvl=5; h,r-ind=1,1
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        [3,3]((8,22,47),(7,19,41),(3,8,17)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,6),(3,8,16),(9,25,53),(3,8,17)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,8,16),(4,11,23),(3,8,17)); lvl=5; h,r-ind=1,1
        [3,3]((9,25,53),(4,11,23),(3,8,17)); lvl=5; h,r-ind=1,1
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        [3,3]((1,3,6),(3,8,16),(4,11,23)); lvl=5; h,r-ind=1,1
    [3,3]((4,11,24),(3,8,18),(6,16,35)); lvl=3; h,r-ind=1,1
    [5,3]((4,11,25),(11,31,67),(6,17,37),(4,11,24),(3,8,18)); lvl=3; h,r-ind=1,1
      [5,3]((9,25,55),(3,8,18),(16,44,97),(5,14,31),(4,11,25)); lvl=4; h,r-ind=1,1
        [3,3]((12,33,73),(3,8,18),(16,44,97)); lvl=5; h,r-ind=1,1
        [3,3]((9,25,55),(12,33,73),(16,44,97)); lvl=5; h,r-ind=1,1
        [3,3]((9,25,55),(17,47,104),(5,14,31)); lvl=5; h,r-ind=1,1
        [3,3]((12,33,73),(20,55,122),(3,8,18)); lvl=5; h,r-ind=1,1
        [3,3]((8,22,49),(20,55,122),(3,8,18)); lvl=5; h,r-ind=1,1
        [3,3]((8,22,49),(4,11,25),(3,8,18)); lvl=5; h,r-ind=1,1
        [4,3]((9,25,55),(12,33,73),(20,55,122),(17,47,104)); lvl=5; h,r-ind=1,1
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          [3,3]((9,25,55),(29,80,177),(12,33,73)); lvl=6; h,r-ind=1,1
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          [3,3]((9,25,55),(17,47,104),(29,80,177)); lvl=6; h,r-ind=1,1
        [4,3]((8,22,49),(20,55,122),(17,47,104),(5,14,31)); lvl=5; h,r-ind=1,1
          [3,3]((25,69,153),(20,55,122),(17,47,104)); lvl=6; h,r-ind=1,1
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        [3,3]((8,22,49),(4,11,25),(5,14,31)); lvl=5; h,r-ind=1,1
      [3,3]((4,11,24),(3,8,18),(16,44,97)); lvl=4; h,r-ind=1,1
      [4,3]((10,28,61),(9,25,55),(6,17,37),(5,14,31)); lvl=4; h,r-ind=1,1
        [3,3]((15,42,92),(5,14,31),(9,25,55)); lvl=5; h,r-ind=1,1
        [3,3]((10,28,61),(15,42,92),(9,25,55)); lvl=5; h,r-ind=1,1
        [3,3]((6,17,37),(15,42,92),(5,14,31)); lvl=5; h,r-ind=1,1
        [3,3]((10,28,61),(6,17,37),(15,42,92)); lvl=5; h,r-ind=1,1
      [3,3]((11,31,67),(10,28,61),(6,17,37)); lvl=4; h,r-ind=1,1
      [4,3]((4,11,24),(10,28,61),(9,25,55),(16,44,97)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((10,28,61),(13,36,79),(9,25,55)); lvl=5; h,r-ind=1,1
        [3,3]((16,44,97),(13,36,79),(9,25,55)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,24),(10,28,61),(13,36,79)); lvl=5; h,r-ind=1,1
        [3,3]((16,44,97),(4,11,24),(13,36,79)); lvl=5; h,r-ind=1,1
      [3,3]((11,31,67),(4,11,24),(10,28,61)); lvl=4; h,r-ind=1,1
    [3,3]((4,11,25),(3,8,18),(6,16,37)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,13),(11,31,67),(6,17,37),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((7,20,43),(6,17,37),(11,31,67)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(7,20,43),(11,31,67)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(7,20,43),(6,17,37)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,6,13),(7,20,43)); lvl=4; h,r-ind=1,1
    [3,3]((4,11,25),(2,6,13),(6,17,37)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[3,3]((0,1,0),(2,6,13),(1,3,6)); lvl=2; h,r-ind=1,1
[4,3]((2,6,13),(1,3,7),(6,16,37),(3,8,21)); lvl=2; h,r-ind=1,1
  [3,3]((3,8,19),(6,16,39),(4,11,26)); lvl=3; h,r-ind=1,1
  [5,3]((11,31,72),(1,3,7),(3,8,21),(6,16,39),(4,11,26)); lvl=3; h,r-ind=1,1
    [5,3]((3,8,20),(9,25,60),(7,19,46),(13,36,86),(12,33,79)); lvl=4; h,r-ind=1,1
      [3,3]((12,33,79),(8,22,53),(13,36,86)); lvl=5; h,r-ind=1,1
      [3,3]((9,25,60),(8,22,53),(13,36,86)); lvl=5; h,r-ind=1,1
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      [3,3]((12,33,79),(7,19,46),(8,22,53)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,20),(7,19,46),(8,22,53)); lvl=5; h,r-ind=1,1
    [4,3]((5,14,33),(4,11,26),(13,36,86),(12,33,79)); lvl=4; h,r-ind=1,1
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      [3,3]((5,14,33),(4,11,26),(17,47,112)); lvl=5; h,r-ind=1,1
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    [4,3]((4,11,26),(6,16,39),(7,19,46),(12,33,79)); lvl=4; h,r-ind=1,1
      [3,3]((11,30,72),(7,19,46),(6,16,39)); lvl=5; h,r-ind=1,1
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        [3,3]((4,11,26),(11,30,72),(6,16,39)); lvl=5; h,r-ind=1,1
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        [3,3]((4,11,26),(11,30,72),(12,33,79)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,20),(6,16,39),(7,19,46)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,7),(5,14,33),(9,25,60),(13,36,86)); lvl=4; h,r-ind=1,1
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        [3,3]((9,25,60),(13,36,86),(14,39,93)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(5,14,33),(14,39,93)); lvl=5; h,r-ind=1,1
        [3,3]((9,25,60),(1,3,7),(14,39,93)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,7),(3,8,20),(3,8,21),(9,25,60)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((4,11,27),(3,8,21),(3,8,20)); lvl=5; h,r-ind=1,1
        [3,3]((9,25,60),(4,11,27),(3,8,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(9,25,60),(4,11,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,7),(4,11,27),(3,8,21)); lvl=5; h,r-ind=1,1
    [4,3]((2,6,13),(11,31,72),(6,17,39),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((7,20,46),(6,17,39),(11,31,72)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(7,20,46),(11,31,72)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(7,20,46),(6,17,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(2,6,13),(7,20,46)); lvl=4; h,r-ind=1,1
    [5,3]((11,31,72),(6,17,39),(4,11,25),(3,8,19),(4,11,26)); lvl=3; h,r-ind=1,1
      [4,3]((4,11,26),(10,28,65),(9,25,58),(16,44,103)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((9,25,58),(10,28,65),(13,36,84)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,26),(10,28,65),(13,36,84)); lvl=5; h,r-ind=1,1
        [3,3]((16,44,103),(9,25,58),(13,36,84)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,26),(16,44,103),(13,36,84)); lvl=5; h,r-ind=1,1
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        [3,3]((5,14,32),(17,47,109),(9,25,58)); lvl=5; h,r-ind=1,1
        [3,3]((20,55,128),(3,8,19),(8,22,51)); lvl=5; h,r-ind=1,1
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          [3,3]((8,22,51),(20,55,128),(25,69,160)); lvl=6; h,r-ind=1,1
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        [4,3]((17,47,109),(20,55,128),(12,33,77),(9,25,58)); lvl=5; h,r-ind=1,1
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        [3,3]((12,33,77),(16,44,103),(3,8,19)); lvl=5; h,r-ind=1,1
        [3,3]((12,33,77),(9,25,58),(16,44,103)); lvl=5; h,r-ind=1,1
      [3,3]((4,11,26),(3,8,19),(16,44,103)); lvl=4; h,r-ind=1,1
      [3,3]((11,31,72),(4,11,26),(10,28,65)); lvl=4; h,r-ind=1,1
      [4,3]((5,14,32),(6,17,39),(10,28,65),(9,25,58)); lvl=4; h,r-ind=1,1
        [3,3]((6,17,39),(10,28,65),(15,42,97)); lvl=5; h,r-ind=1,1
        [3,3]((9,25,58),(10,28,65),(15,42,97)); lvl=5; h,r-ind=1,1
        [3,3]((5,14,32),(6,17,39),(15,42,97)); lvl=5; h,r-ind=1,1
        [3,3]((9,25,58),(5,14,32),(15,42,97)); lvl=5; h,r-ind=1,1
      [3,3]((11,31,72),(6,17,39),(10,28,65)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,13),(6,17,39),(4,11,25)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,11,25),(6,16,37),(3,8,19)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,7),(4,11,29),(3,8,21)); lvl=2; h,r-ind=1,1
  [4,3]((9,25,66),(9,26,66),(1,3,7),(4,11,29)); lvl=2; h,r-ind=1,1
    [3,3]((6,17,44),(1,3,7),(9,26,66)); lvl=3; h,r-ind=1,1
    [3,3]((6,17,44),(11,31,80),(1,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,29),(11,31,80),(1,3,7)); lvl=3; h,r-ind=1,1
    [4,3]((6,17,44),(9,25,66),(4,11,29),(11,31,80)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((9,25,66),(10,28,73),(4,11,29)); lvl=4; h,r-ind=1,1
      [3,3]((11,31,80),(10,28,73),(4,11,29)); lvl=4; h,r-ind=1,1
      [3,3]((6,17,44),(11,31,80),(10,28,73)); lvl=4; h,r-ind=1,1
      [3,3]((6,17,44),(9,25,66),(10,28,73)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(9,26,66),(1,3,7)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(2,6,13),(1,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,6),(1,3,5)); lvl=2; h,r-ind=1,1
[6,3]((2,5,10),(1,2,5),(3,7,19),(5,13,35),(3,8,16),(3,8,21)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,13),(3,7,19),(4,10,27)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,13),(5,13,35),(4,10,27)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,13),(3,8,21),(5,13,35)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,5),(2,5,13),(3,7,19)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,5),(2,5,13),(2,5,12)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,13),(3,8,21),(6,16,37),(2,5,12)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,12),(9,23,57),(3,8,19),(6,16,39)); lvl=3; h,r-ind=1,1
      [4,3]((3,8,19),(5,13,32),(10,26,63),(6,16,39)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((8,21,51),(5,13,32),(10,26,63)); lvl=5; h,r-ind=1,1
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        [3,3]((6,16,39),(3,8,19),(8,21,51)); lvl=5; h,r-ind=1,1
        [3,3]((6,16,39),(8,21,51),(5,13,32)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,12),(3,8,19),(10,26,63)); lvl=4; h,r-ind=1,1
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      [3,3]((2,5,12),(5,13,32),(10,26,63)); lvl=4; h,r-ind=1,1
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    [4,3]((2,5,13),(9,23,57),(3,8,21),(6,16,39)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((5,13,32),(12,31,78),(3,8,20)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((2,5,13),(3,8,21),(12,31,78),(3,8,20)); lvl=4; h,r-ind=1,3
        [3,3]((5,13,33),(3,8,21),(3,8,20)); lvl=5; h,r-ind=1,1
        [3,3]((12,31,78),(5,13,33),(3,8,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,13),(12,31,78),(5,13,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,13),(5,13,33),(3,8,21)); lvl=5; h,r-ind=1,1
      [3,3]((5,13,32),(6,16,39),(3,8,20)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,13),(9,23,57),(5,13,32),(12,31,78)); lvl=4; h,r-ind=1,3
        [3,3]((9,23,57),(7,18,45),(5,13,32)); lvl=5; h,r-ind=1,1
        [3,3]((12,31,78),(7,18,45),(5,13,32)); lvl=5; h,r-ind=1,1
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    [3,3]((2,5,12),(6,16,37),(3,8,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,13),(2,5,12),(9,23,57)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,11),(3,8,16),(6,16,37),(2,5,12)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,12),(9,23,52),(3,8,18),(6,16,35)); lvl=3; h,r-ind=1,1
      [4,3]((5,13,29),(3,8,18),(10,26,59),(6,16,35)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((8,21,47),(3,8,18),(10,26,59)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,29),(8,21,47),(10,26,59)); lvl=5; h,r-ind=1,1
        [3,3]((6,16,35),(8,21,47),(3,8,18)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,29),(6,16,35),(8,21,47)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,12),(5,13,29),(10,26,59)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(5,13,29),(9,23,52)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(3,8,18),(10,26,59)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,11),(9,23,52),(3,8,16),(6,16,35)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((5,13,29),(3,8,17),(6,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((12,31,68),(5,13,29),(3,8,17)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
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        [3,3]((3,8,17),(5,13,28),(3,8,16)); lvl=5; h,r-ind=1,1
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        [3,3]((7,18,40),(12,31,68),(5,13,29)); lvl=5; h,r-ind=1,1
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  [3,3]((2,5,10),(2,5,11),(3,8,16)); lvl=2; h,r-ind=1,1
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  [3,3]((2,5,10),(2,5,11),(1,2,5)); lvl=2; h,r-ind=1,1
[5,3]((1,0,0),(3,4,11),(4,10,15),(2,5,10),(1,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,5),(2,3,8),(2,3,7),(7,9,23)); lvl=2; h,r-ind=1,1
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    [3,3]((6,9,23),(2,3,8),(3,4,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(6,9,23),(2,3,7),(3,4,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,10),(4,6,15),(6,9,23)); lvl=4; h,r-ind=1,1
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      [3,3]((2,3,7),(3,4,10),(4,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,7),(4,6,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,5),(6,9,23),(2,3,8)); lvl=3; h,r-ind=1,1
  [5,3]((1,1,2),(2,2,5),(2,3,6),(2,3,7),(7,9,23)); lvl=2; h,r-ind=1,1
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      [3,3]((6,7,17),(2,2,5),(7,8,19)); lvl=4; h,r-ind=1,1
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    [4,3]((3,4,9),(4,5,12),(2,3,7),(3,4,10)); lvl=3; h,r-ind=1,1
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      [3,3]((3,4,9),(6,8,19),(4,5,12)); lvl=4; h,r-ind=1,1
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      [3,3]((3,4,9),(5,6,14),(4,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,19),(5,6,14),(4,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,9),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,19),(1,1,2),(5,6,14)); lvl=4; h,r-ind=1,1
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  [3,3]((1,0,0),(1,1,2),(2,2,5)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(3,4,11),(2,2,5),(2,3,8),(7,9,23)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,13),(7,9,23),(2,3,8)); lvl=3; h,r-ind=1,1
    [4,3]((7,8,21),(5,6,16),(4,5,13),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(5,6,16),(9,11,29)); lvl=4; h,r-ind=1,1
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      [3,3]((7,8,21),(5,6,16),(9,11,29)); lvl=4; h,r-ind=1,1
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      [3,3]((4,5,13),(2,3,8),(9,11,29)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,11),(5,6,16),(2,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(3,4,11),(5,6,16)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
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      [3,3]((5,5,13),(7,8,21),(15,16,42)); lvl=4; h,r-ind=1,1
      [4,3]((5,6,16),(3,3,8),(7,8,21),(15,16,42)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,8),(15,16,42),(10,11,29)); lvl=5; h,r-ind=1,1
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        [3,3]((5,6,16),(7,8,21),(10,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,16),(3,3,8),(10,11,29)); lvl=5; h,r-ind=1,1
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        [3,3]((8,8,21),(3,3,8),(15,16,42)); lvl=5; h,r-ind=1,1
        [3,3]((5,5,13),(8,8,21),(15,16,42)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,0),(8,8,21),(3,3,8)); lvl=5; h,r-ind=1,1
        [3,3]((5,5,13),(1,0,0),(8,8,21)); lvl=5; h,r-ind=1,1
    [3,3]((2,2,5),(4,5,13),(7,9,23)); lvl=3; h,r-ind=1,1
    [4,3]((5,5,13),(7,8,21),(2,2,5),(4,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,13),(7,8,21),(9,10,26)); lvl=4; h,r-ind=1,1
      [3,3]((5,5,13),(7,8,21),(9,10,26)); lvl=4; h,r-ind=1,1
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      [3,3]((2,2,5),(4,5,13),(9,10,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(5,5,13),(2,2,5)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,6),(1,2,4),(1,2,5),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(1,2,5),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(3,5,11),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(3,5,11),(1,2,5)); lvl=3; h,r-ind=1,1
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  [5,3]((2,5,10),(4,10,17),(3,7,12),(3,6,11),(1,2,4)); lvl=2; h,r-ind=1,1
    [5,3]((11,25,45),(7,16,29),(2,5,9),(5,12,21),(9,21,37)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,25),(2,5,9),(7,16,29)); lvl=4; h,r-ind=1,1
      [3,3]((11,25,45),(6,14,25),(7,16,29)); lvl=4; h,r-ind=1,1
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      [3,3]((10,23,41),(6,14,25),(9,21,37)); lvl=4; h,r-ind=1,1
      [3,3]((6,14,25),(2,5,9),(5,12,21)); lvl=4; h,r-ind=1,1
      [3,3]((6,14,25),(9,21,37),(5,12,21)); lvl=4; h,r-ind=1,1
    [4,3]((3,7,12),(4,10,17),(5,12,21),(9,21,37)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,17),(8,19,33),(5,12,21)); lvl=4; h,r-ind=1,1
      [3,3]((9,21,37),(8,19,33),(5,12,21)); lvl=4; h,r-ind=1,1
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      [3,3]((5,11,20),(4,9,16),(11,25,45)); lvl=4; h,r-ind=1,1
      [3,3]((10,23,41),(4,9,16),(11,25,45)); lvl=4; h,r-ind=1,1
      [3,3]((9,21,37),(10,23,41),(4,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,12),(9,21,37),(4,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,11),(3,7,12),(4,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,11),(5,11,20),(4,9,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(3,6,11),(5,11,20)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(11,25,45),(7,16,29),(5,11,20)); lvl=3; h,r-ind=1,1
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    [4,3]((2,5,10),(1,2,4),(7,16,29),(2,5,9)); lvl=3; h,r-ind=1,3; alert-r-inc
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      [3,3]((2,5,10),(2,5,9),(3,7,13)); lvl=4; h,r-ind=1,1
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  [3,3]((2,5,8),(4,10,17),(3,7,12)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(2,5,8),(3,7,12),(3,6,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,8),(7,16,27),(3,7,12)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,7),(3,6,11),(7,16,27),(3,7,12)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,11,19),(3,6,11),(3,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((7,16,27),(5,11,19),(3,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(7,16,27),(5,11,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(5,11,19),(3,6,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(2,4,7),(2,5,8),(7,16,27)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,7),(4,9,15),(7,16,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(4,9,15),(7,16,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,8),(4,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,7),(4,9,15)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,3),(4,10,15),(2,5,8)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((1,2,3),(3,5,9),(4,7,13),(3,6,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,9),(9,16,29),(4,7,13)); lvl=3; h,r-ind=1,1
      [4,3]((2,4,7),(3,6,11),(9,16,29),(4,7,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,11,20),(4,7,13),(3,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,7),(6,11,20),(3,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((9,16,29),(6,11,20),(4,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,7),(9,16,29),(6,11,20)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(2,4,7),(3,5,9),(9,16,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,9,16),(2,4,7),(9,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,9),(5,9,16),(9,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(5,9,16),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,9),(1,2,3),(5,9,16)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,2),(1,2,3),(3,5,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(3,5,9),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,9),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,2,3),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,2),(2,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(3,5,9),(4,7,13),(2,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,9),(4,7,13),(5,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(4,7,13),(5,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(5,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,5,9),(5,8,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,10),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,4,11),(3,5,14)); lvl=1; h,r-ind=1,1
  [3,3]((3,8,23),(1,0,0),(3,5,14)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((4,10,15),(2,5,10),(1,3,4),(3,8,16),(1,3,5)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,5),(6,17,27),(3,8,15),(6,16,27)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((4,11,18),(3,8,14),(6,16,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,18),(3,8,14),(9,25,42)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,3,5),(3,8,14),(3,8,15),(9,25,42)); lvl=3; h,r-ind=1,3
        [3,3]((3,8,15),(4,11,19),(3,8,14)); lvl=4; h,r-ind=1,1
        [3,3]((9,25,42),(4,11,19),(3,8,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(9,25,42),(4,11,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(3,8,15),(4,11,19)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,5),(6,17,27),(4,11,18),(9,25,42)); lvl=3; h,r-ind=1,3
        [3,3]((6,17,27),(5,14,23),(4,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((9,25,42),(5,14,23),(4,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(6,17,27),(5,14,23)); lvl=4; h,r-ind=1,1
        [3,3]((9,25,42),(1,3,5),(5,14,23)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,10),(4,10,17),(3,8,15),(6,16,27)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((3,8,14),(5,13,22),(6,16,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(3,8,14),(5,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(4,10,17),(5,13,22)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,10),(2,5,9),(3,8,15),(3,8,14)); lvl=3; h,r-ind=1,1
        [3,3]((3,8,14),(3,8,15),(5,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(3,8,15),(5,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(2,5,10),(5,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(3,8,14),(5,13,24)); lvl=4; h,r-ind=1,1
    [5,3]((2,5,8),(4,10,17),(1,3,4),(6,17,27),(6,16,27)); lvl=2; h,r-ind=1,1
      [4,3]((5,13,22),(3,8,13),(4,11,18),(6,16,27)); lvl=3; h,r-ind=1,1
        [3,3]((3,8,13),(4,11,18),(9,24,40)); lvl=4; h,r-ind=1,1
        [3,3]((6,16,27),(4,11,18),(9,24,40)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,22),(3,8,13),(9,24,40)); lvl=4; h,r-ind=1,1
        [3,3]((6,16,27),(5,13,22),(9,24,40)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,13),(8,22,35),(4,11,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(6,17,27),(8,22,35),(4,11,18)); lvl=3; h,r-ind=1,1
        [3,3]((5,14,22),(4,11,18),(8,22,35)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(5,14,22),(8,22,35)); lvl=4; h,r-ind=1,1
        [3,3]((6,17,27),(5,14,22),(4,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(6,17,27),(5,14,22)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,13),(1,3,4),(8,22,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(3,8,13),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,22),(4,10,17),(3,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(4,10,17),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((4,10,15),(2,5,8),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(3,8,16),(3,8,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,10),(3,8,16),(3,8,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,5),(6,17,27)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,4),(1,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(4,10,15),(1,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,4),(1,2,3),(4,10,13),(4,10,15)); lvl=2; h,r-ind=1,4; alert-r-inc
      [3,3]((4,10,13),(2,5,7),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,15),(2,5,7),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(4,10,15),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(4,10,13),(2,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(1,2,2),(2,5,6),(4,10,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,9),(2,5,6),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,9),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(4,10,13),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,9),(4,10,13)); lvl=3; h,r-ind=1,1
```

```
    [4,3]((0,1,0),(1,3,4),(2,5,6),(4,10,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,6),(4,10,13),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(4,10,13),(3,8,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(5,14,17),(2,5,6),(3,8,10)); lvl=3; h,r-ind=1,1
        [3,3]((4,11,13),(5,14,17),(3,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(4,11,13),(3,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,5,6),(4,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(4,11,13),(5,14,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(5,14,17),(3,8,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(0,1,0),(1,3,3),(5,14,17)); lvl=3; h,r-ind=1,1
        [3,3]((2,6,7),(1,3,3),(0,1,0)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,6,7),(0,1,0)); lvl=4; h,r-ind=1,1
        [3,3]((5,14,17),(2,6,7),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(5,14,17),(2,6,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,2,2),(2,5,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((0,1,0),(3,8,23),(9,25,66),(7,19,52)); lvl=1; h,r-ind=1,1
    [4,3]((7,19,52),(8,22,59),(9,25,67),(4,11,30)); lvl=2; h,r-ind=1,1
      [3,3]((8,22,59),(12,33,89),(9,25,67)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,30),(12,33,89),(9,25,67)); lvl=3; h,r-ind=1,1
      [3,3]((7,19,52),(4,11,30),(12,33,89)); lvl=3; h,r-ind=1,1
      [3,3]((7,19,52),(8,22,59),(12,33,89)); lvl=3; h,r-ind=1,1
    [4,3]((11,31,82),(6,17,45),(9,25,67),(4,11,30)); lvl=2; h,r-ind=1,1
      [3,3]((6,17,45),(4,11,30),(15,42,112)); lvl=3; h,r-ind=1,1
      [3,3]((9,25,67),(4,11,30),(15,42,112)); lvl=3; h,r-ind=1,1
      [3,3]((11,31,82),(9,25,67),(15,42,112)); lvl=3; h,r-ind=1,1
      [3,3]((11,31,82),(6,17,45),(15,42,112)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,23),(7,19,52),(4,11,30)); lvl=2; h,r-ind=1,1
    [3,3]((6,17,45),(3,8,23),(4,11,30)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,15),(6,17,45),(3,8,23)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,6,15),(3,8,23)); lvl=2; h,r-ind=1,1
    [6,3]((9,25,66),(9,26,66),(7,20,52),(11,31,82),(8,22,59),(9,25,67)); lvl=2; h,r-ind=1,1
      [4,3]((9,26,66),(8,23,59),(6,17,44),(5,14,37)); lvl=3; h,r-ind=1,1
        [3,3]((14,40,103),(5,14,37),(8,23,59)); lvl=4; h,r-ind=1,1
        [3,3]((9,26,66),(14,40,103),(8,23,59)); lvl=4; h,r-ind=1,1
        [3,3]((6,17,44),(14,40,103),(5,14,37)); lvl=4; h,r-ind=1,1
        [3,3]((9,26,66),(6,17,44),(14,40,103)); lvl=4; h,r-ind=1,1
      [3,3]((9,25,66),(6,17,44),(5,14,37)); lvl=3; h,r-ind=1,1
      [3,3]((9,25,66),(8,22,59),(5,14,37)); lvl=3; h,r-ind=1,1
      [3,3]((7,20,52),(8,23,59),(5,14,37)); lvl=3; h,r-ind=1,1
      [3,3]((11,31,82),(7,20,52),(5,14,37)); lvl=3; h,r-ind=1,1
      [3,3]((9,25,67),(11,31,82),(5,14,37)); lvl=3; h,r-ind=1,1
      [3,3]((8,22,59),(9,25,67),(5,14,37)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,15),(7,20,52),(11,31,82),(6,17,45)); lvl=2; h,r-ind=1,1
      [3,3]((13,37,97),(11,31,82),(7,20,52)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,15),(13,37,97),(7,20,52)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,45),(13,37,97),(11,31,82)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,15),(6,17,45),(13,37,97)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(9,26,66),(2,6,15),(7,20,52)); lvl=2; h,r-ind=1,1
      [3,3]((10,29,74),(8,23,59),(7,20,52)); lvl=3; h,r-ind=1,1
      [4,3]((2,6,15),(10,29,74),(15,44,111),(7,20,52)); lvl=3; h,r-ind=1,1
        [3,3]((12,35,89),(15,44,111),(10,29,74)); lvl=4; h,r-ind=1,1
        [3,3]((7,20,52),(12,35,89),(10,29,74)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,15),(7,20,52),(12,35,89)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,15),(12,35,89),(15,44,111)); lvl=4; h,r-ind=1,1
      [4,3]((3,9,22),(0,1,0),(2,6,15),(15,44,111)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((0,1,0),(5,15,37),(2,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((15,44,111),(5,15,37),(2,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,22),(15,44,111),(5,15,37)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,22),(0,1,0),(5,15,37)); lvl=4; h,r-ind=1,1
      [4,3]((3,9,22),(10,29,74),(15,44,111),(8,23,59)); lvl=3; h,r-ind=1,1
        [3,3]((13,38,96),(15,44,111),(10,29,74)); lvl=4; h,r-ind=1,1
        [3,3]((8,23,59),(13,38,96),(10,29,74)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,22),(8,23,59),(13,38,96)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,22),(13,38,96),(15,44,111)); lvl=4; h,r-ind=1,1
      [3,3]((3,9,22),(9,26,66),(8,23,59)); lvl=3; h,r-ind=1,1
```

23.49 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,9,23)); lvl=0; h,r-ind=23,529
  [4,3]((1,0,0),(1,2,4),(1,2,3),(2,3,7)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,2),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,7),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,5),(2,3,7)); lvl=1; h,r-ind=1,1
```

```
[3,3]((1,0,0),(3,9,23),(1,2,5)); lvl=1; h,r-ind=1,1
[5,3]((2,5,12),(1,2,5),(2,5,10),(1,2,4),(2,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,4),(2,4,9),(2,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,5),(2,4,9),(2,3,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,5),(2,5,12),(3,7,16),(5,11,25)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,12),(4,9,21),(3,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((5,11,25),(4,9,21),(3,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(5,11,25),(4,9,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,5,12),(4,9,21)); lvl=3; h,r-ind=1,1
  [4,3]((5,11,24),(6,13,29),(1,2,4),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((7,15,33),(2,4,9),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((5,11,24),(7,15,33),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((6,13,29),(7,15,33),(2,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((5,11,24),(6,13,29),(7,15,33)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,5),(6,13,29),(5,11,25),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,25),(6,13,29),(7,15,34)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(6,13,29),(7,15,34)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(5,11,25),(7,15,34)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(1,2,5),(7,15,34)); lvl=3; h,r-ind=1,1
  [6,3]((2,5,11),(3,7,16),(3,7,15),(5,11,24),(6,13,29),(5,11,25)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,25),(3,7,16),(4,9,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(3,7,16),(4,9,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(3,7,15),(4,9,20)); lvl=3; h,r-ind=1,1
    [3,3]((5,11,25),(6,13,29),(4,9,20)); lvl=3; h,r-ind=1,1
    [3,3]((5,11,24),(6,13,29),(4,9,20)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,15),(5,11,24),(4,9,20)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,12),(2,5,11),(3,7,16)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,10),(3,7,15),(5,11,24),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,15),(4,9,19),(5,11,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(4,9,19),(5,11,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,10),(3,7,15),(4,9,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,10),(4,9,19)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,11),(2,5,10),(3,7,15)); lvl=2; h,r-ind=1,1
[4,3]((3,8,20),(2,5,12),(4,11,27),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,11,27),(2,5,12),(5,13,32)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,5),(2,5,12),(5,13,32)); lvl=2; h,r-ind=1,1
  [3,3]((3,8,20),(4,11,27),(5,13,32)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,5),(3,8,20),(5,13,32)); lvl=2; h,r-ind=1,1
[3,3]((3,9,23),(3,8,20),(1,2,5)); lvl=1; h,r-ind=1,1
[4,3]((3,9,22),(3,8,20),(2,6,15),(4,11,27)); lvl=1; h,r-ind=1,1
  [3,3]((6,17,42),(3,8,20),(2,6,15)); lvl=2; h,r-ind=1,1
  [3,3]((3,9,22),(6,17,42),(2,6,15)); lvl=2; h,r-ind=1,1
  [3,3]((4,11,27),(3,9,22),(6,17,42)); lvl=2; h,r-ind=1,1
  [3,3]((4,11,27),(6,17,42),(3,8,20)); lvl=2; h,r-ind=1,1
[3,3]((3,9,23),(3,8,20),(2,6,15)); lvl=1; h,r-ind=1,1
[4,3]((1,0,0),(0,1,0),(1,2,3),(1,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,3),(3,7,9),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((1,2,2),(3,7,9),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,7,9),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,1,1),(2,4,5)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,3,4),(3,7,9),(1,2,2)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((2,5,6),(1,3,4),(3,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,5,6),(3,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,9),(2,5,6),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(3,8,9),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(3,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(3,8,9),(2,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,3),(1,3,4),(3,7,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
[5,3]((2,5,10),(1,2,4),(1,2,3),(1,3,5),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((3,8,13),(1,3,4),(1,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,9),(3,8,13),(4,10,17),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((5,13,22),(3,8,13),(4,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(5,13,22),(4,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(5,13,22),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(1,3,5),(5,13,22)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,10),(2,5,9),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,10),(2,5,9),(1,2,4)); lvl=2; h,r-ind=1,1
  [5,3]((3,7,12),(3,8,13),(4,10,17),(1,2,3),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((4,10,17),(2,5,8),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,8),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,4),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,12),(4,10,17),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,12),(1,2,3),(2,5,8)); lvl=3; h,r-ind=1,1
  [3,3]((3,7,12),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((2,5,9),(3,7,12),(4,10,17),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,12),(4,10,17),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(4,10,17),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,12),(5,12,21)); lvl=3; h,r-ind=1,1
  [5,3]((3,9,22),(2,5,12),(4,11,27),(2,5,10),(1,3,5)); lvl=1; h,r-ind=1,1
    [4,3]((4,11,27),(7,19,46),(1,3,7),(3,9,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,14,34),(1,3,7),(7,19,46)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,27),(5,14,34),(7,19,46)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,22),(5,14,34),(1,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,27),(3,9,22),(5,14,34)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,12),(4,11,27),(7,19,46)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,12),(7,19,46),(1,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,12),(2,5,11),(2,6,13),(1,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,11),(3,8,18),(2,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(3,8,18),(2,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,12),(3,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(2,5,11),(3,8,18)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,11),(2,5,10),(2,6,13),(1,3,5)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,10),(5,13,27),(1,3,6),(1,3,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,13,27),(3,8,16),(1,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(3,8,16),(1,3,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(1,3,5),(3,8,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(5,13,27),(3,8,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(2,5,10),(5,13,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(5,13,27),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(1,3,6),(2,6,13)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((3,9,22),(0,1,0),(1,3,5)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((3,9,22),(2,6,15),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,9,23),(2,6,15),(0,1,0)); lvl=1; h,r-ind=1,1
```

23.50 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,11,23)); lvl=0; h,r-ind=23,529
  [5,3]((1,2,4),(1,1,2),(1,3,4),(2,6,7),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,2,3),(2,4,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,3),(2,6,7),(2,4,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,3),(2,6,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,3),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(0,1,0),(1,4,4),(2,6,7),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,4),(1,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(1,2,2),(2,2,3),(2,4,5)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,2),(4,6,7),(2,4,5),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,6),(4,6,7),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,5,6),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,5,6),(4,6,7)); lvl=4; h,r-ind=1,1
      [4,3]((2,2,3),(1,1,1),(4,6,7),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,5),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,2),(4,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,4),(1,3,3),(2,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(1,3,3),(2,6,7),(2,4,5)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,3),(4,10,11),(2,6,7),(2,5,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,9),(4,10,11),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(3,8,9),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(3,8,9),(4,10,11)); lvl=4; h,r-ind=1,1
      [4,3]((2,4,5),(1,2,2),(4,10,11),(2,5,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,7,8),(1,2,2),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(3,7,8),(4,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,8),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,6),(2,4,5),(3,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(4,10,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,4),(2,7,9),(2,7,14),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,5),(2,7,9),(4,14,23)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,3,6),(1,3,5),(2,7,14),(4,14,23)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((1,3,5),(5,16,29),(2,7,12),(4,14,25)); lvl=3; h,r-ind=1,1
      [4,3]((6,20,35),(3,10,18),(2,7,12),(4,14,25)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,17,30),(2,7,12),(4,14,25)); lvl=5; h,r-ind=1,1
        [3,3]((5,17,30),(3,10,18),(4,14,25)); lvl=5; h,r-ind=1,1
        [3,3]((6,20,35),(5,17,30),(3,10,18)); lvl=5; h,r-ind=1,1
        [3,3]((6,20,35),(5,17,30),(2,7,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(6,20,35),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(6,20,35),(3,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(5,16,29),(3,10,18)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,6),(2,7,14),(5,16,29),(4,14,25)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((2,7,13),(3,10,18),(7,23,43)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,3,6),(2,7,14),(2,7,13),(7,23,43)); lvl=4; h,r-ind=1,3
        [3,3]((3,10,19),(2,7,14),(2,7,13)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,43),(3,10,19),(2,7,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(7,23,43),(3,10,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(3,10,19),(2,7,14)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,6),(5,16,29),(3,10,18),(7,23,43)); lvl=4; h,r-ind=1,3
        [3,3]((4,13,24),(3,10,18),(5,16,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(4,13,24),(5,16,29)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,43),(4,13,24),(3,10,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(7,23,43),(4,13,24)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,13),(3,10,18),(4,14,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,6),(5,16,29)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(4,14,23),(2,7,12)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,4),(1,3,6),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,5),(1,3,4),(2,7,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,4),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
[5,3]((3,11,22),(0,1,0),(2,7,9),(1,4,4),(2,7,14)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,6),(1,4,5),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,6),(1,4,7),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((3,11,22),(1,4,7),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,4),(1,4,5),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,4),(2,7,9),(1,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,6),(2,7,9),(1,4,5),(4,14,23)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,5),(2,7,9),(4,14,21),(5,19,27)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,11,16),(2,7,10),(4,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,16),(7,26,36),(2,7,10)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,4,5),(7,26,36),(2,7,9),(2,7,10)); lvl=4; h,r-ind=1,3
        [3,3]((2,7,10),(2,7,9),(3,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,9),(3,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((7,26,36),(2,7,10),(3,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(7,26,36),(3,11,15)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,5),(5,19,27),(3,11,16),(7,26,36)); lvl=4; h,r-ind=1,3
        [3,3]((5,19,27),(4,15,21),(3,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((7,26,36),(4,15,21),(3,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(7,26,36),(4,15,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(5,19,27),(4,15,21)); lvl=5; h,r-ind=1,1
    [4,3]((1,4,6),(2,7,11),(4,14,21),(5,19,27)); lvl=3; h,r-ind=1,1
      [4,3]((3,11,16),(2,7,11),(4,14,21),(6,22,33)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,11),(4,14,21),(5,18,27)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,16),(4,14,21),(5,18,27)); lvl=5; h,r-ind=1,1
        [3,3]((6,22,33),(2,7,11),(5,18,27)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,16),(6,22,33),(5,18,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(3,11,16),(6,22,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(3,11,16),(5,19,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,11),(6,22,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,11),(4,14,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,4,5),(5,19,27)); lvl=3; h,r-ind=1,1
  [4,3]((2,7,14),(1,4,6),(1,4,7),(4,14,23)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,7),(5,19,32),(1,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((4,14,25),(2,7,12),(5,19,32),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((6,22,37),(1,4,6),(2,7,12)); lvl=4; h,r-ind=1,1
      [4,3]((4,14,25),(6,22,37),(3,11,19),(2,7,12)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,11,19),(6,22,37),(5,18,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,12),(6,22,37),(5,18,31)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,25),(3,11,19),(5,18,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,12),(4,14,25),(5,18,31)); lvl=5; h,r-ind=1,1
      [3,3]((6,22,37),(3,11,19),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((5,19,32),(3,11,19),(1,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((4,14,23),(2,7,12),(1,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,14),(4,14,25),(1,4,7),(5,19,32)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((7,26,46),(1,4,7),(5,19,32),(3,11,19)); lvl=4; h,r-ind=1,3
        [3,3]((4,15,26),(1,4,7),(5,19,32)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,19),(4,15,26),(5,19,32)); lvl=5; h,r-ind=1,1
        [3,3]((7,26,46),(4,15,26),(1,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,19),(7,26,46),(4,15,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,13),(7,26,46),(3,11,19)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,7,13),(4,14,25),(3,11,19)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,13),(2,7,14),(7,26,46),(1,4,7)); lvl=4; h,r-ind=1,3
        [3,3]((3,11,20),(2,7,14),(1,4,7)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((7,26,46),(3,11,20),(1,4,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,13),(7,26,46),(3,11,20)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,13),(3,11,20),(2,7,14)); lvl=5; h,r-ind=1,1
    [3,3]((3,11,22),(2,7,14),(1,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((3,11,23),(3,11,22),(2,7,14)); lvl=1; h,r-ind=1,1
  [3,3]((3,11,23),(3,11,22),(0,1,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((3,11,23),(1,2,4),(2,7,14)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,11,23),(1,2,4),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,11,23),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((2,7,9),(1,4,4),(1,3,4),(2,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,8),(1,3,4),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,4),(2,7,8),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,9),(2,7,8),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,4),(2,7,9),(2,7,8)); lvl=2; h,r-ind=1,1
```

23.51 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,13,23)); lvl=0; h,r-ind=23,529
  [3,3]((2,5,8),(1,4,7),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,13,23),(1,4,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,4),(2,5,8),(1,0,0)); lvl=1; h,r-ind=12,12; optimized-h
  [3,3]((0,1,0),(1,4,4),(1,0,0)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,4,4),(2,5,8),(1,4,7)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,4,4),(1,4,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(3,13,22),(1,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((3,13,23),(3,13,22),(1,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((3,13,23),(0,1,0),(3,13,22)); lvl=1; h,r-ind=3,9; optimized-h
```

23.52 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,15,23)); lvl=0; h,r-ind=23,529
  [5,3]((1,2,3),(2,6,9),(1,3,4),(2,5,6),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,7),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(2,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,3,4),(3,6,8),(5,11,15)); lvl=2; h,r-ind=1,1
      [3,3]((4,8,11),(3,6,8),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,8,11),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,15),(4,8,11),(3,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,15),(4,8,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(6,14,19),(5,12,16),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,16),(6,14,19),(7,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(6,14,19),(7,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,12,16),(7,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(1,3,4),(7,17,23)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(5,12,16),(3,7,9),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,16),(4,10,13),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(4,10,13),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,6),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,12,16),(4,10,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(3,7,9),(2,5,6)); lvl=2; h,r-ind=1,1
    [6,3]((2,4,5),(3,6,8),(6,14,19),(5,11,15),(5,12,16),(3,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,12),(3,6,8),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(4,9,12),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,16),(3,7,9),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,19),(5,12,16),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,12),(5,11,15),(3,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,19),(4,9,12),(5,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(3,6,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(6,14,19),(5,11,15),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,15),(6,14,19),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(6,14,19),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,15),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(1,2,3),(7,16,22)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(1,3,3),(2,5,6),(2,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,3),(2,3,3),(2,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,11,13),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(5,11,13),(2,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(1,3,3),(2,5,6),(5,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,3),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,3),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(1,2,2),(3,7,8)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,4),(2,3,3),(2,4,5)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((2,3,4),(2,4,5),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,4,5),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(1,1,1),(2,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,1),(2,3,4),(5,8,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(2,3,4),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
[3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(1,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
[3,3]((3,15,23),(1,0,0),(1,2,3)); lvl=1; h,r-ind=1,1
[3,3]((3,15,23),(1,2,3),(2,6,9)); lvl=1; h,r-ind=1,1
[5,3]((2,6,9),(1,4,5),(1,3,4),(2,9,13),(1,4,6)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,10),(1,3,4),(2,6,9)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,10),(1,4,6),(2,6,9)); lvl=2; h,r-ind=1,1
  [4,3]((3,12,17),(2,7,10),(4,15,21),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,21),(2,7,10),(5,19,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,10),(5,19,27)); lvl=3; h,r-ind=1,1
    [3,3]((3,12,17),(1,4,6),(5,19,27)); lvl=3; h,r-ind=1,1
    [3,3]((3,12,17),(4,15,21),(5,19,27)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,13),(3,12,17),(1,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,5),(2,9,13),(3,12,17)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,7,10),(4,15,21),(1,3,4),(3,11,15)); lvl=2; h,r-ind=1,1
    [3,3]((5,18,25),(3,11,15),(4,15,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,10),(5,18,25),(4,15,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,10),(5,18,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(5,18,25),(3,11,15)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,5),(3,12,17),(4,15,21),(3,11,15)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,11),(9,34,47),(3,12,17),(4,15,21)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((9,34,47),(6,23,32),(4,15,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,17),(6,23,32),(4,15,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,11),(3,12,17),(6,23,32)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,11),(9,34,47),(6,23,32)); lvl=4; h,r-ind=1,1
    [3,3]((3,11,15),(9,34,47),(4,15,21)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(2,8,11),(3,11,15),(9,34,47)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,19,26),(9,34,47),(2,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(5,19,26),(2,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,15),(1,4,5),(5,19,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,15),(5,19,26),(9,34,47)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,5),(1,3,4),(3,11,15)); lvl=2; h,r-ind=1,1
[6,3]((0,1,0),(4,19,28),(3,15,22),(1,4,5),(1,4,4),(2,9,13)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,7),(3,15,22),(4,19,28)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,7),(2,9,13),(4,19,28)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,7),(1,4,5),(2,9,13)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,7),(1,5,6),(1,4,5),(3,13,15)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((1,5,6),(3,13,15),(2,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(3,13,15),(2,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(1,4,5),(2,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(1,5,6),(2,9,11)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,7),(1,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,4,4),(1,5,6),(3,13,15)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((1,4,4),(3,14,15),(2,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(3,14,15),(2,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(3,13,15),(2,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(3,13,15),(2,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,5),(1,4,4),(3,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(1,5,5),(3,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,6),(1,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,4,4)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,4),(1,4,5),(3,13,15)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,7),(3,15,22)); lvl=2; h,r-ind=1,1
[4,3]((3,14,21),(4,19,28),(2,9,13),(1,4,6)); lvl=1; h,r-ind=1,1
  [3,3]((4,19,28),(2,9,13),(5,23,34)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,6),(2,9,13),(5,23,34)); lvl=2; h,r-ind=1,1
  [3,3]((3,14,21),(4,19,28),(5,23,34)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,6),(3,14,21),(5,23,34)); lvl=2; h,r-ind=1,1
[3,3]((3,15,23),(3,14,21),(1,4,6)); lvl=1; h,r-ind=1,1
[4,3]((2,10,15),(3,14,21),(4,19,28),(3,15,22)); lvl=1; h,r-ind=1,1
  [3,3]((4,19,28),(3,14,21),(6,29,43)); lvl=2; h,r-ind=1,1
  [3,3]((2,10,15),(3,14,21),(6,29,43)); lvl=2; h,r-ind=1,1
  [3,3]((3,15,22),(2,10,15),(6,29,43)); lvl=2; h,r-ind=1,1
  [3,3]((3,15,22),(4,19,28),(6,29,43)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(2,10,15),(3,15,22)); lvl=1; h,r-ind=1,1
[3,3]((3,15,23),(2,10,15),(3,14,21)); lvl=1; h,r-ind=1,1
[3,3]((0,1,0),(3,15,23),(2,10,15)); lvl=1; h,r-ind=1,1
[3,3]((3,15,23),(2,6,9),(1,4,6)); lvl=1; h,r-ind=1,1
[5,3]((1,3,3),(1,4,5),(1,4,4),(1,3,4),(2,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(1,4,4),(3,10,11)); lvl=2; h,r-ind=1,1
  [5,3]((1,4,5),(3,10,12),(4,13,15),(1,4,4),(3,10,11)); lvl=2; h,r-ind=1,1
```

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      [3,3]((2,7,8),(4,13,15),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,7,8),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,4,4),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(2,7,8),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,10,12),(2,7,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(2,6,7),(3,10,12),(4,13,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,6,7),(4,13,15),(5,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(4,13,15),(5,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,10,12),(5,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,7),(5,16,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(1,3,4),(3,10,12)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,7),(4,13,15),(1,3,3),(3,10,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,11),(4,13,15),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(4,13,15),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,6,7),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,10,11),(5,16,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,6,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,6),(2,6,7)); lvl=2; h,r-ind=1,1
```

23.53 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,16,23)); lvl=0; h,r-ind=23,529
  [3,3]((0,1,0),(1,5,7),(3,16,22)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,16,23),(3,16,22)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((3,16,23),(1,5,7),(3,16,22)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,7),(1,4,4)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,5,7),(1,3,3),(1,4,4),(1,3,4)); lvl=1; h,r-ind=1,2
    [3,3]((1,4,4),(1,4,5),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,5),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,7),(1,4,4),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,5,7),(1,4,5)); lvl=2; h,r-ind=1,1
  [5,3]((1,5,7),(3,12,17),(2,5,7),(4,8,11),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,7),(3,12,17),(3,10,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,7),(3,12,17),(3,10,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,7),(1,3,4),(4,13,18)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,7),(5,13,18),(6,18,25),(3,10,14)); lvl=2; h,r-ind=1,1
      [3,3]((8,23,32),(6,18,25),(5,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(8,23,32),(5,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,14),(8,23,32),(6,18,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(3,10,14),(8,23,32)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,7),(4,13,18),(6,18,25),(3,10,14)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,18),(6,18,25),(7,23,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,14),(6,18,25),(7,23,32)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(4,13,18),(7,23,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,14),(1,5,7),(7,23,32)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,7),(5,13,18),(4,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(5,13,18),(4,8,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,3,4),(4,13,18),(5,13,18),(6,18,25)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,18),(13,39,54),(6,18,25)); lvl=3; h,r-ind=1,1
      [4,3]((3,8,11),(5,13,18),(13,39,54),(6,18,25)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,18,25),(13,39,54),(9,26,36)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,11),(13,39,54),(9,26,36)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,18),(6,18,25),(9,26,36)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,11),(5,13,18),(9,26,36)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(3,8,11),(4,13,18),(13,39,54)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,21,29),(13,39,54),(3,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(7,21,29),(3,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((7,21,29),(4,13,18),(13,39,54)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(7,21,29),(4,13,18)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,7),(3,14,20),(3,12,17)); lvl=1; h,r-ind=1,1
  [3,3]((3,16,23),(1,5,7),(3,14,20)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(3,14,20),(3,12,17),(2,5,7)); lvl=1; h,r-ind=1,1
    [4,3]((2,7,10),(7,24,34),(3,14,20),(3,12,17)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,24,34),(5,19,27),(3,12,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,20),(5,19,27),(3,12,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(3,14,20),(5,19,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(7,24,34),(5,19,27)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,7),(7,24,34),(3,12,17)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,7,10),(2,5,7),(7,24,34)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,12,17),(2,7,10),(7,24,34)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(4,12,17),(7,24,34)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(4,12,17),(2,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(1,0,0),(4,12,17)); lvl=3; h,r-ind=1,1
  [3,3]((3,16,23),(1,0,0),(3,14,20)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(2,5,7),(4,8,11)); lvl=1; h,r-ind=1,1
```

```
  [4,3]((1,0,0),(4,8,11),(1,3,3),(1,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,3),(1,3,3),(2,4,5),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,4),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,9,11),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,9,11),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,3),(1,2,2),(2,4,5),(4,9,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,6,7),(1,2,2),(4,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,6,7),(4,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(2,4,5),(3,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(3,6,7),(1,2,2)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,11),(2,3,4),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(4,8,11),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,4),(2,3,3),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,4,5),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,4,5),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(1,1,1),(2,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,1),(2,3,4),(5,8,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,5),(2,3,4),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
```

23.54 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,18,23)); lvl=0; h,r-ind=23,529
  [3,3]((2,11,14),(3,15,19),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,5),(3,15,19),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,5),(2,5,6),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(2,5,6),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,4,4),(1,5,6),(1,4,5),(1,2,2),(2,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,7),(2,5,6),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((4,16,19),(2,7,8),(2,6,7),(1,4,5)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,11,13),(2,7,8),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,13),(1,4,5),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,16,19),(3,11,13),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,16,19),(3,11,13),(2,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(4,16,19),(1,4,5)); lvl=2; h,r-ind=1,1
    [5,3]((1,3,3),(1,4,4),(1,5,6),(4,16,19),(2,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((3,12,14),(1,5,6),(4,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,12,14),(4,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,8),(4,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,14),(5,20,23),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(5,20,23),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,8,9),(1,5,6)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,8),(3,12,14),(5,20,23),(4,15,17)); lvl=3; h,r-ind=1,1
        [3,3]((7,27,31),(5,20,23),(3,12,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(7,27,31),(3,12,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,17),(7,27,31),(5,20,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(4,15,17),(7,27,31)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,3),(2,8,9),(5,20,23),(4,15,17)); lvl=3; h,r-ind=1,1
        [3,3]((2,8,9),(5,20,23),(6,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,17),(5,20,23),(6,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,8,9),(6,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,17),(1,3,3),(6,23,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(2,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,7),(1,2,2),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(2,7,8),(2,6,7),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,8),(2,6,7),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,6,7),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,8),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(3,9,10)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,6),(6,33,41),(1,4,5),(3,15,19)); lvl=1; h,r-ind=1,1
    [4,3]((1,4,5),(3,16,20),(3,15,19),(5,25,31)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,15,19),(4,20,25),(3,16,20)); lvl=3; h,r-ind=1,1
      [3,3]((5,25,31),(4,20,25),(3,16,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(5,25,31),(4,20,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,15,19),(4,20,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,5),(5,25,31)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(3,16,20),(5,25,31)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(3,16,20),(6,33,41)); lvl=2; h,r-ind=1,1
  [4,3]((3,18,22),(2,12,15),(6,33,41),(4,23,29)); lvl=1; h,r-ind=1,1
    [4,3]((2,12,15),(4,23,29),(7,40,50),(12,69,86)); lvl=2; h,r-ind=1,1
      [3,3]((9,52,65),(7,40,50),(4,23,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,15),(9,52,65),(4,23,29)); lvl=3; h,r-ind=1,1
      [3,3]((12,69,86),(2,12,15),(9,52,65)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((12,69,86),(9,52,65),(7,40,50)); lvl=3; h,r-ind=1,1
    [4,3]((3,17,21),(5,28,35),(7,40,50),(12,69,86)); lvl=2; h,r-ind=1,1
      [3,3]((5,28,35),(10,57,71),(7,40,50)); lvl=3; h,r-ind=1,1
      [3,3]((12,69,86),(10,57,71),(7,40,50)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,21),(12,69,86),(10,57,71)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,21),(5,28,35),(10,57,71)); lvl=3; h,r-ind=1,1
    [3,3]((3,17,21),(6,33,41),(5,28,35)); lvl=2; h,r-ind=1,1
    [4,3]((3,18,22),(3,17,21),(2,12,15),(12,69,86)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,17,21),(5,29,36),(12,69,86)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,15),(5,29,36),(12,69,86)); lvl=3; h,r-ind=1,1
      [3,3]((3,18,22),(2,12,15),(5,29,36)); lvl=3; h,r-ind=1,1
      [3,3]((3,18,22),(3,17,21),(5,29,36)); lvl=3; h,r-ind=1,1
    [3,3]((5,28,35),(4,23,29),(7,40,50)); lvl=2; h,r-ind=1,1
  [3,3]((3,18,23),(2,12,15),(4,23,29)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,18,22),(2,12,15)); lvl=1; h,r-ind=1,1
  [3,3]((3,18,23),(0,1,0),(2,12,15)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((0,1,0),(1,4,4),(1,5,6),(3,18,22),(6,33,41)); lvl=1; h,r-ind=1,1
    [4,3]((2,11,13),(1,5,6),(3,17,21),(6,33,41)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,22,27),(6,33,41),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(4,22,27),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,22,27),(3,17,21),(6,33,41)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(4,22,27),(3,17,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,13),(1,6,7),(3,17,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,7),(3,18,22),(3,17,21)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,7),(3,18,22)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,6),(4,21,24),(2,11,13),(1,6,7)); lvl=2; h,r-ind=1,1
      [4,3]((4,21,24),(5,27,30),(2,11,13),(7,39,45)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((11,60,69),(2,11,13),(4,22,25),(7,39,45)); lvl=4; h,r-ind=1,3
          [3,3]((6,33,38),(2,11,13),(7,39,45)); lvl=5; h,r-ind=1,1
          [3,3]((6,33,38),(4,22,25),(7,39,45)); lvl=5; h,r-ind=1,1
          [3,3]((11,60,69),(6,33,38),(4,22,25)); lvl=5; h,r-ind=1,1
          [3,3]((11,60,69),(6,33,38),(2,11,13)); lvl=5; h,r-ind=1,1
        [3,3]((3,16,18),(11,60,69),(4,22,25)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,16,18),(5,27,30),(4,22,25)); lvl=4; h,r-ind=1,1
        [4,3]((4,21,24),(3,16,18),(11,60,69),(2,11,13)); lvl=4; h,r-ind=1,3
          [3,3]((3,16,18),(5,27,31),(11,60,69)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,13),(5,27,31),(11,60,69)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,24),(2,11,13),(5,27,31)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,24),(3,16,18),(5,27,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,13),(7,39,45)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,6),(1,6,7),(5,27,30),(7,39,45)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((4,22,25),(8,45,51),(1,6,7),(7,39,45)); lvl=4; h,r-ind=1,3
          [3,3]((1,6,7),(8,45,51),(5,28,32)); lvl=5; h,r-ind=1,1
          [3,3]((4,22,25),(8,45,51),(5,28,32)); lvl=5; h,r-ind=1,1
          [3,3]((7,39,45),(4,22,25),(5,28,32)); lvl=5; h,r-ind=1,1
          [3,3]((7,39,45),(1,6,7),(5,28,32)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,12),(4,22,25),(8,45,51)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,11,12),(4,22,25),(5,27,30)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,6),(2,11,12),(8,45,51),(1,6,7)); lvl=4; h,r-ind=1,3
          [3,3]((2,11,12),(8,45,51),(3,17,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(8,45,51),(3,17,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,6),(2,11,12),(3,17,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(1,6,6),(3,17,19)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,6),(1,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((4,21,24),(3,15,17),(2,11,13),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,26,30),(1,5,6),(3,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,21,24),(5,26,30),(3,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(4,21,24),(5,26,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(5,26,30),(1,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(3,15,17),(1,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,6),(1,4,4),(4,21,24),(3,15,17)); lvl=2; h,r-ind=1,1
      [3,3]((2,10,11),(1,4,4),(3,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,21,24),(2,10,11),(3,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,21,24),(5,27,30),(2,10,11)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,6,6),(1,5,5),(5,27,30),(2,10,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,5),(2,10,11),(5,26,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(2,10,11),(5,26,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(5,27,30),(2,10,11)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,6),(2,11,12),(1,5,5),(5,26,28)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,12),(5,26,28),(3,16,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(5,26,28),(3,16,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,6),(1,5,5),(3,16,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,6),(2,11,12),(3,16,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,5),(2,10,11),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,6),(1,4,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((3,18,23),(2,11,14),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((6,33,41),(4,23,29),(2,11,14),(3,15,19)); lvl=1; h,r-ind=1,1
    [4,3]((4,23,29),(7,39,49),(12,66,83),(2,11,14)); lvl=2; h,r-ind=1,1
      [3,3]((9,50,63),(12,66,83),(7,39,49)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((4,23,29),(9,50,63),(7,39,49)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(4,23,29),(9,50,63)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(9,50,63),(12,66,83)); lvl=3; h,r-ind=1,1
    [4,3]((3,15,19),(3,16,20),(12,66,83),(2,11,14)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,16,20),(5,27,34),(12,66,83)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(5,27,34),(12,66,83)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,19),(2,11,14),(5,27,34)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,19),(3,16,20),(5,27,34)); lvl=3; h,r-ind=1,1
    [3,3]((5,28,35),(4,23,29),(7,39,49)); lvl=2; h,r-ind=1,1
    [4,3]((3,16,20),(5,28,35),(7,39,49),(12,66,83)); lvl=2; h,r-ind=1,1
      [3,3]((10,55,69),(5,28,35),(7,39,49)); lvl=3; h,r-ind=1,1
      [3,3]((12,66,83),(10,55,69),(7,39,49)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,20),(12,66,83),(10,55,69)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,20),(10,55,69),(5,28,35)); lvl=3; h,r-ind=1,1
    [3,3]((6,33,41),(3,16,20),(5,28,35)); lvl=2; h,r-ind=1,1
  [3,3]((3,18,23),(4,23,29),(2,11,14)); lvl=1; h,r-ind=1,1
```

23.55 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,19,23)); lvl=0; h,r-ind=23,529
  [3,3]((2,6,7),(1,0,0),(1,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((3,19,23),(1,0,0),(1,5,6)); lvl=1; h,r-ind=1,1
  [5,3]((1,4,4),(1,2,2),(2,6,7),(2,11,13),(1,5,6)); lvl=1; h,r-ind=1,1
    [4,3]((4,19,22),(2,7,8),(2,8,9),(1,5,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,13,15),(2,8,9),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,15),(1,5,6),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,22),(3,13,15),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,19,22),(3,13,15),(2,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,13),(4,19,22),(1,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,4),(2,11,13),(4,19,22)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,4,4),(1,3,3),(4,19,22),(2,8,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(7,28,31),(2,8,9)); lvl=3; h,r-ind=1,1
      [4,3]((5,23,26),(4,19,22),(7,28,31),(2,8,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((4,17,19),(7,28,31),(11,47,53),(2,8,9)); lvl=4; h,r-ind=1,3
          [3,3]((7,28,31),(6,25,28),(2,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((11,47,53),(6,25,28),(2,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((4,17,19),(11,47,53),(6,25,28)); lvl=5; h,r-ind=1,1
          [3,3]((4,17,19),(7,28,31),(6,25,28)); lvl=5; h,r-ind=1,1
        [4,3]((4,19,22),(3,14,16),(11,47,53),(2,8,9)); lvl=4; h,r-ind=1,3
          [3,3]((3,14,16),(5,22,25),(11,47,53)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,9),(5,22,25),(11,47,53)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,22),(2,8,9),(5,22,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,19,22),(3,14,16),(5,22,25)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,16),(4,17,19),(11,47,53)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((5,23,26),(3,14,16),(4,17,19)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,4),(5,23,26),(1,3,3),(7,28,31)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,3,3),(8,32,35),(4,17,19),(7,28,31)); lvl=4; h,r-ind=1,3
          [3,3]((5,20,22),(4,17,19),(8,32,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(5,20,22),(8,32,35)); lvl=5; h,r-ind=1,1
          [3,3]((7,28,31),(5,20,22),(4,17,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(7,28,31),(5,20,22)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,10),(8,32,35),(4,17,19)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((5,23,26),(2,9,10),(4,17,19)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,4),(1,3,3),(2,9,10),(8,32,35)); lvl=4; h,r-ind=1,3
          [3,3]((1,3,3),(8,32,35),(3,12,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,10),(8,32,35),(3,12,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(1,3,3),(3,12,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,10),(1,4,4),(3,12,13)); lvl=5; h,r-ind=1,1
    [3,3]((2,6,7),(2,7,8),(1,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,6,7),(2,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(1,2,2),(2,7,8),(2,8,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,7,8),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(2,7,8),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(1,3,3),(3,10,11)); lvl=3; h,r-ind=1,1
  [3,3]((3,19,23),(2,11,13),(1,5,6)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,4,4),(2,11,13),(1,6,7)); lvl=1; h,r-ind=1,1
    [5,3]((3,15,16),(5,27,30),(4,22,25),(1,4,4),(2,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,13),(5,26,29),(3,16,18)); lvl=3; h,r-ind=1,1
      [4,3]((5,27,30),(4,21,23),(5,26,29),(3,16,18)); lvl=3; h,r-ind=1,1
        [3,3]((4,21,23),(7,37,41),(5,26,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,18),(7,37,41),(5,26,29)); lvl=4; h,r-ind=1,1
        [3,3]((5,27,30),(3,16,18),(7,37,41)); lvl=4; h,r-ind=1,1
        [3,3]((5,27,30),(4,21,23),(7,37,41)); lvl=4; h,r-ind=1,1
      [3,3]((4,22,25),(2,11,13),(3,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((5,27,30),(4,22,25),(3,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(2,10,11),(5,26,29)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((3,15,16),(4,21,23),(2,10,11),(5,26,29)); lvl=3; h,r-ind=1,1
        [3,3]((4,21,23),(6,31,34),(5,26,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(6,31,34),(5,26,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(3,15,16),(6,31,34)); lvl=4; h,r-ind=1,1
        [3,3]((3,15,16),(4,21,23),(6,31,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(2,11,13),(2,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,16),(1,4,4),(2,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((4,22,25),(1,6,7),(2,11,13)); lvl=2; h,r-ind=1,1
    [5,3]((3,15,16),(2,11,12),(5,27,30),(2,11,11),(1,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,26,28),(3,15,16),(4,21,23)); lvl=3; h,r-ind=1,1
      [6,3]((8,42,45),(10,53,57),(9,48,52),(6,32,35),(5,26,28),(4,21,23)); lvl=3; h,r-ind=1,1
        [3,3]((6,32,35),(7,37,40),(9,48,52)); lvl=4; h,r-ind=1,1
        [3,3]((10,53,57),(7,37,40),(9,48,52)); lvl=4; h,r-ind=1,1
        [3,3]((10,53,57),(8,42,45),(7,37,40)); lvl=4; h,r-ind=1,1
        [3,3]((6,32,35),(7,37,40),(4,21,23)); lvl=4; h,r-ind=1,1
        [3,3]((5,26,28),(7,37,40),(4,21,23)); lvl=4; h,r-ind=1,1
        [3,3]((8,42,45),(5,26,28),(7,37,40)); lvl=4; h,r-ind=1,1
      [3,3]((6,32,35),(5,27,30),(4,21,23)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,12),(9,48,52),(6,32,35),(5,27,30)); lvl=3; h,r-ind=1,1
        [3,3]((9,48,52),(8,43,47),(6,32,35)); lvl=4; h,r-ind=1,1
        [3,3]((5,27,30),(8,43,47),(6,32,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(5,27,30),(8,43,47)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(9,48,52),(8,43,47)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,12),(3,16,17),(10,53,57),(9,48,52)); lvl=3; h,r-ind=1,1
        [3,3]((12,64,69),(10,53,57),(3,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(12,64,69),(3,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((9,48,52),(12,64,69),(10,53,57)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(9,48,52),(12,64,69)); lvl=4; h,r-ind=1,1
      [4,3]((8,42,45),(5,26,28),(1,5,5),(3,15,16)); lvl=3; h,r-ind=1,1
        [3,3]((6,31,33),(1,5,5),(3,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,26,28),(6,31,33),(3,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((8,42,45),(5,26,28),(6,31,33)); lvl=4; h,r-ind=1,1
        [3,3]((8,42,45),(6,31,33),(1,5,5)); lvl=4; h,r-ind=1,1
      [4,3]((3,16,17),(8,42,45),(10,53,57),(1,5,5)); lvl=3; h,r-ind=1,1
        [3,3]((8,42,45),(10,53,57),(11,58,62)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,17),(10,53,57),(11,58,62)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(3,16,17),(11,58,62)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(8,42,45),(11,58,62)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,11),(3,16,17),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,12),(2,11,11),(3,16,17)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,11,11),(1,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,11,12),(5,27,30),(4,22,25),(1,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((6,33,37),(4,22,25),(5,27,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,12),(6,33,37),(5,27,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(6,33,37),(4,22,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,12),(1,6,7),(6,33,37)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(2,11,12),(2,11,11),(1,6,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,11,11),(1,6,6),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(1,6,6),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,7),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,11,11),(1,6,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,15,16),(1,5,5),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,4,4)); lvl=2; h,r-ind=1,1
  [3,3]((3,19,23),(2,11,13),(1,6,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,7),(3,19,22)); lvl=1; h,r-ind=1,1
  [3,3]((3,19,23),(1,6,7),(3,19,22)); lvl=1; h,r-ind=1,1
  [3,3]((3,19,23),(0,1,0),(3,19,22)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(1,4,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,2),(2,6,7),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
```

23.56 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,21,23)); lvl=0; h,r-ind=23,529
  [4,3]((1,4,4),(6,33,35),(3,12,13),(1,1,1)); lvl=1; h,r-ind=3,1
    [4,3]((1,4,4),(2,5,5),(3,16,17),(6,29,31)); lvl=2; h,r-ind=3,1
      [3,3]((3,15,16),(6,29,31),(4,17,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,15,16),(4,17,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,5),(4,17,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(1,4,4),(3,15,16),(3,16,17)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,4),(3,16,17),(4,19,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,15,16),(3,16,17),(4,19,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,4,4),(4,19,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,15,16),(1,3,3),(4,19,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,1),(2,5,5),(3,12,13),(6,29,31)); lvl=2; h,r-ind=1,1
      [3,3]((4,17,18),(3,14,15),(6,29,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,17,18),(3,14,15)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((1,2,2),(6,27,29),(3,14,15)); lvl=3; h,r-ind=1,1
    [4,3]((3,12,13),(1,1,1),(1,2,2),(6,27,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(5,16,17),(1,2,2)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,14),(5,16,17),(1,2,2)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,14),(6,27,29),(1,2,2)); lvl=4; h,r-ind=1,1
      [4,3]((3,13,14),(3,12,13),(1,1,1),(5,16,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,14,15),(1,1,1),(3,12,13)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,14),(4,14,15),(3,12,13)); lvl=5; h,r-ind=1,1
        [3,3]((4,14,15),(5,16,17),(1,1,1)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,14),(4,14,15),(5,16,17)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,2),(2,5,5),(4,17,18)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,4),(6,33,35),(3,16,17)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(3,12,13),(1,1,1)); lvl=1; h,r-ind=1,1
[3,3]((0,1,0),(1,4,4),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
[4,3]((6,33,35),(4,25,27),(2,11,12),(3,12,13)); lvl=1; h,r-ind=3,1
  [3,3]((4,25,27),(5,29,31),(2,12,13)); lvl=2; h,r-ind=1,1
  [3,3]((3,16,17),(5,29,31),(2,12,13)); lvl=2; h,r-ind=1,1
  [3,3]((3,16,17),(6,29,31),(2,12,13)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
  [4,3]((3,12,13),(6,29,31),(2,11,12),(2,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,12,13),(3,14,15),(6,29,31)); lvl=3; h,r-ind=1,1
    [4,3]((2,12,13),(3,14,15),(6,27,29),(9,48,52)); lvl=3; h,r-ind=1,1
      [4,3]((5,25,27),(10,51,55),(3,14,15),(6,27,29)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,15),(10,51,55),(8,39,42)); lvl=5; h,r-ind=1,1
        [3,3]((5,25,27),(10,51,55),(8,39,42)); lvl=5; h,r-ind=1,1
        [3,3]((6,27,29),(3,14,15),(8,39,42)); lvl=5; h,r-ind=1,1
        [3,3]((5,25,27),(6,27,29),(8,39,42)); lvl=5; h,r-ind=1,1
      [3,3]((2,12,13),(5,25,27),(10,51,55)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,13),(9,48,52),(5,25,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,13),(10,51,55),(3,14,15)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,12),(3,12,13),(6,27,29),(9,48,52)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((5,25,27),(6,27,29),(3,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((5,25,27),(12,60,65),(3,13,14)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((2,11,12),(12,60,65),(3,12,13),(3,13,14)); lvl=4; h,r-ind=1,3
        [3,3]((5,24,26),(3,13,14),(12,60,65)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,12),(5,24,26),(12,60,65)); lvl=5; h,r-ind=1,1
        [3,3]((3,12,13),(5,24,26),(3,13,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,12),(3,12,13),(5,24,26)); lvl=5; h,r-ind=1,1
      [4,3]((2,11,12),(5,25,27),(9,48,52),(12,60,65)); lvl=4; h,r-ind=1,3
        [3,3]((7,36,39),(5,25,27),(9,48,52)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,12),(7,36,39),(9,48,52)); lvl=5; h,r-ind=1,1
        [3,3]((7,36,39),(12,60,65),(5,25,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,12),(7,36,39),(12,60,65)); lvl=5; h,r-ind=1,1
    [3,3]((2,11,12),(2,12,13),(9,48,52)); lvl=3; h,r-ind=1,1
  [3,3]((6,33,35),(3,16,17),(5,29,31)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(2,11,12),(3,12,13)); lvl=1; h,r-ind=1,1
[3,3]((3,21,23),(4,25,27),(2,11,12)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((1,0,0),(3,21,23),(2,11,12)); lvl=1; h,r-ind=1,1
[4,3]((2,14,15),(3,21,22),(6,33,35),(4,25,27)); lvl=1; h,r-ind=3,1
  [3,3]((2,13,14),(3,17,18),(6,37,39)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
  [4,3]((2,14,15),(2,13,14),(3,21,22),(6,37,39)); lvl=2; h,r-ind=1,1
    [3,3]((2,13,14),(3,19,20),(6,37,39)); lvl=3; h,r-ind=1,1
    [4,3]((2,13,14),(9,60,64),(6,39,41),(3,19,20)); lvl=3; h,r-ind=1,1
      [4,3]((3,19,20),(10,65,69),(6,39,41),(5,33,35)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((10,65,69),(5,33,35),(8,52,55)); lvl=5; h,r-ind=1,1
        [3,3]((6,39,41),(5,33,35),(8,52,55)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,20),(10,65,69),(8,52,55)); lvl=5; h,r-ind=1,1
        [3,3]((6,39,41),(3,19,20),(8,52,55)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,14),(10,65,69),(5,33,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,14),(9,60,64),(5,33,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,14),(3,19,20),(10,65,69)); lvl=4; h,r-ind=1,1
    [3,3]((2,14,15),(2,13,14),(9,60,64)); lvl=3; h,r-ind=1,1
    [4,3]((3,21,22),(2,14,15),(9,60,64),(6,39,41)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((12,81,86),(5,33,35),(2,14,15),(9,60,64)); lvl=4; h,r-ind=1,3
        [3,3]((7,47,50),(9,60,64),(5,33,35)); lvl=5; h,r-ind=1,1
        [3,3]((12,81,86),(7,47,50),(5,33,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,15),(12,81,86),(7,47,50)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,15),(7,47,50),(9,60,64)); lvl=5; h,r-ind=1,1
      [4,3]((3,20,21),(3,21,22),(12,81,86),(2,14,15)); lvl=4; h,r-ind=1,3
        [3,3]((5,34,36),(3,21,22),(2,14,15)); lvl=5; h,r-ind=1,1
        [3,3]((12,81,86),(5,34,36),(2,14,15)); lvl=5; h,r-ind=1,1
        [3,3]((3,20,21),(12,81,86),(5,34,36)); lvl=5; h,r-ind=1,1
        [3,3]((3,20,21),(5,34,36),(3,21,22)); lvl=5; h,r-ind=1,1
      [3,3]((3,20,21),(12,81,86),(5,33,35)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((3,20,21),(6,39,41),(5,33,35)); lvl=4; h,r-ind=1,1
  [3,3]((2,13,14),(3,17,18),(5,29,31)); lvl=2; h,r-ind=1,1
  [3,3]((4,25,27),(2,13,14),(5,29,31)); lvl=2; h,r-ind=1,1
  [3,3]((6,33,35),(3,17,18),(5,29,31)); lvl=2; h,r-ind=1,1
[3,3]((3,21,23),(2,14,15),(4,25,27)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((0,1,0),(3,21,23),(2,14,15)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((0,1,0),(2,14,15),(3,21,22)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,4,4),(3,21,22),(6,33,35)); lvl=1; h,r-ind=1,1
    [5,3]((1,5,5),(1,6,6),(6,37,39),(3,17,18),(5,26,27)); lvl=2; h,r-ind=1,1
      [4,3]((4,22,23),(4,23,24),(3,17,18),(3,18,19)); lvl=3; h,r-ind=1,1
        [3,3]((3,18,19),(4,23,24),(7,40,42)); lvl=4; h,r-ind=1,1
        [3,3]((4,22,23),(4,23,24),(7,40,42)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,18),(4,22,23),(7,40,42)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,18),(3,18,19),(7,40,42)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,6),(6,34,35),(4,23,24),(3,18,19)); lvl=3; h,r-ind=1,1
        [3,3]((6,34,35),(4,23,24),(5,29,30)); lvl=4; h,r-ind=1,1
        [3,3]((3,18,19),(4,23,24),(5,29,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(3,18,19),(5,29,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(6,34,35),(5,29,30)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(6,37,39),(3,18,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,26,27),(4,22,23),(3,17,18)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,5),(4,22,23),(6,34,35),(4,23,24)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,22,23),(4,23,24),(5,28,29)); lvl=4; h,r-ind=1,1
        [3,3]((6,34,35),(4,23,24),(5,28,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(6,34,35),(5,28,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(4,22,23),(5,28,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(1,5,5),(6,34,35)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(5,26,27),(4,22,23)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,4),(6,33,35),(3,17,18),(5,26,27)); lvl=2; h,r-ind=1,1
      [3,3]((4,21,22),(6,33,35),(3,17,18)); lvl=3; h,r-ind=1,1
      [3,3]((5,26,27),(4,21,22),(3,17,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(5,26,27),(4,21,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(4,21,22),(6,33,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(1,5,5),(5,26,27)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(1,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=2; h,r-ind=1,1
    [4,3]((3,21,22),(1,6,6),(1,7,7),(6,37,39)); lvl=2; h,r-ind=1,1
      [3,3]((6,39,40),(1,6,6),(1,7,7)); lvl=3; h,r-ind=1,1
      [4,3]((3,21,22),(6,39,41),(6,39,40),(1,7,7)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,7,7),(9,60,62),(4,26,27),(6,39,40)); lvl=4; h,r-ind=1,3
          [3,3]((5,33,34),(9,60,62),(4,26,27)); lvl=5; h,r-ind=1,1
          [3,3]((6,39,40),(5,33,34),(4,26,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(6,39,40),(5,33,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,7),(5,33,34),(9,60,62)); lvl=5; h,r-ind=1,1
        [4,3]((3,20,21),(3,21,22),(1,7,7),(9,60,62)); lvl=4; h,r-ind=1,3
          [3,3]((4,27,28),(1,7,7),(3,21,22)); lvl=5; h,r-ind=1,1
          [3,3]((3,20,21),(4,27,28),(3,21,22)); lvl=5; h,r-ind=1,1
          [3,3]((9,60,62),(4,27,28),(1,7,7)); lvl=5; h,r-ind=1,1
          [3,3]((3,20,21),(9,60,62),(4,27,28)); lvl=5; h,r-ind=1,1
        [3,3]((3,20,21),(9,60,62),(4,26,27)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,20,21),(6,39,41),(4,26,27)); lvl=4; h,r-ind=1,1
      [4,3]((3,19,20),(6,39,41),(6,39,40),(1,6,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,6),(6,39,40),(4,26,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(8,51,53),(4,26,27)); lvl=4; h,r-ind=1,1
        [4,3]((3,19,20),(6,39,41),(8,51,53),(4,26,27)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((6,39,41),(4,26,27),(7,45,47)); lvl=5; h,r-ind=1,1
          [3,3]((8,51,53),(4,26,27),(7,45,47)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,20),(8,51,53),(7,45,47)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,20),(6,39,41),(7,45,47)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(3,19,20),(8,51,53)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,20),(6,37,39),(1,6,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(3,21,22),(1,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,6),(1,7,7)); lvl=2; h,r-ind=1,1
```

23.57 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,22,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,7,7),(0,1,0),(1,4,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,22,23),(1,7,7),(1,4,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,1),(0,1,0),(1,4,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,22,23),(1,1,1),(1,4,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(3,22,23),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,7,7),(0,1,0),(3,22,22)); lvl=1; h,r-ind=1,1
  [3,3]((3,22,23),(1,7,7),(3,22,22)); lvl=1; h,r-ind=1,1
  [3,3]((3,22,23),(0,1,0),(3,22,22)); lvl=1; h,r-ind=3,9; optimized-h
```

23.58 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,4,23)); lvl=0; h,r-ind=23,529
```

```
  [3,3]((2,2,11),(1,0,0),(3,3,17)); lvl=1; h,r-ind=1,1
  [3,3]((4,4,23),(1,0,0),(3,3,17)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,11),(3,3,17)); lvl=1; h,r-ind=1,1
  [3,3]((4,4,23),(0,1,0),(3,3,17)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,5),(2,2,11),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,5),(1,1,3),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,1,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(1,1,5),(1,1,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,1,5),(2,2,11)); lvl=1; h,r-ind=1,1
```

23.59 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,5,23)); lvl=0; h,r-ind=23,529
  [5,3]((4,5,19),(3,4,9),(3,4,14),(1,1,4),(2,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,9),(1,1,3),(2,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,9),(6,8,23),(4,5,15),(1,1,3)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,11),(6,8,23),(8,10,29),(4,5,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,10,29),(4,5,15),(7,9,26)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,23),(4,5,15),(7,9,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,11),(8,10,29),(7,9,26)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,23),(3,4,11),(7,9,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(8,10,29),(4,5,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,3),(3,4,11),(6,8,21),(8,10,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,5,14),(6,8,21),(3,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((8,10,29),(4,5,14),(3,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(8,10,29),(4,5,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(4,5,14),(6,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,9),(6,8,21)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((4,5,15),(4,5,18),(1,1,4),(1,1,3)); lvl=2; h,r-ind=1,1
      [4,3]((8,10,33),(4,5,18),(1,1,4),(7,8,27)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((11,13,45),(4,5,17),(1,1,4),(4,5,18)); lvl=4; h,r-ind=1,3
          [3,3]((4,5,17),(5,6,21),(4,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(5,6,21),(4,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((11,13,45),(1,1,4),(5,6,21)); lvl=5; h,r-ind=1,1
          [3,3]((11,13,45),(4,5,17),(5,6,21)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,20),(11,13,45),(4,5,17)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((5,6,20),(8,10,33),(4,5,17)); lvl=4; h,r-ind=1,1
        [4,3]((5,6,20),(11,13,45),(7,8,27),(1,1,4)); lvl=4; h,r-ind=1,3
          [3,3]((6,7,24),(1,1,4),(11,13,45)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,20),(6,7,24),(11,13,45)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,27),(6,7,24),(1,1,4)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,20),(7,8,27),(6,7,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,4),(7,8,27)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,3),(4,5,15),(8,10,33),(7,8,27)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((4,5,16),(5,6,20),(11,13,42)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,1,3),(7,8,27),(5,6,20),(11,13,42)); lvl=4; h,r-ind=1,3
          [3,3]((6,7,23),(7,8,27),(5,6,20)); lvl=5; h,r-ind=1,1
          [3,3]((11,13,42),(6,7,23),(5,6,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(11,13,42),(6,7,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(6,7,23),(7,8,27)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,3),(4,5,15),(4,5,16),(11,13,42)); lvl=4; h,r-ind=1,3
          [3,3]((5,6,19),(4,5,15),(4,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((11,13,42),(5,6,19),(4,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(11,13,42),(5,6,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(5,6,19),(4,5,15)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,16),(8,10,33),(5,6,20)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,19),(4,5,18),(1,1,4)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,14),(6,8,23),(4,5,15),(4,5,18)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,12),(4,5,15),(6,8,23)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,12),(6,8,25),(8,10,33),(4,5,15)); lvl=3; h,r-ind=1,1
        [3,3]((7,9,29),(4,5,16),(8,10,33)); lvl=4; h,r-ind=1,1
        [4,3]((17,22,69),(10,13,41),(7,9,29),(4,5,16)); lvl=4; h,r-ind=1,1
          [3,3]((14,18,57),(10,13,41),(7,9,29)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,16),(14,18,57),(7,9,29)); lvl=5; h,r-ind=1,1
          [3,3]((17,22,69),(14,18,57),(10,13,41)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,16),(17,22,69),(14,18,57)); lvl=5; h,r-ind=1,1
        [4,3]((4,5,15),(3,4,12),(17,22,69),(4,5,16)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((3,4,12),(7,9,28),(17,22,69)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,16),(7,9,28),(17,22,69)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,15),(4,5,16),(7,9,28)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,15),(3,4,12),(7,9,28)); lvl=5; h,r-ind=1,1
        [4,3]((3,4,12),(6,8,25),(17,22,69),(10,13,41)); lvl=4; h,r-ind=1,1
          [3,3]((13,17,53),(10,13,41),(6,8,25)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,12),(13,17,53),(6,8,25)); lvl=5; h,r-ind=1,1
          [3,3]((13,17,53),(17,22,69),(10,13,41)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,12),(13,17,53),(17,22,69)); lvl=5; h,r-ind=1,1
        [3,3]((6,8,25),(10,13,41),(7,9,29)); lvl=4; h,r-ind=1,1
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      [4,3]((6,8,25),(3,4,14),(4,5,18),(8,10,33)); lvl=3; h,r-ind=3,1; alert-h-inc
        [4,3]((3,4,13),(3,4,14),(4,5,18),(4,5,17)); lvl=4; h,r-ind=1,1
          [3,3]((7,9,31),(4,5,18),(3,4,14)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,13),(7,9,31),(3,4,14)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,17),(3,4,13),(7,9,31)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,17),(7,9,31),(4,5,18)); lvl=5; h,r-ind=1,1
        [3,3]((7,9,29),(3,4,13),(4,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,29),(8,10,33),(4,5,17)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,25),(7,9,29),(3,4,13)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,19),(3,4,14),(4,5,18)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,4),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,0,0),(0,1,0),(3,4,9),(2,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,9),(3,5,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,2),(0,1,0),(3,5,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,3),(1,1,2),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(0,1,0)); lvl=2; h,r-ind=3,9; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,5),(1,1,2),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,5),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(3,4,9),(3,4,14),(2,3,10)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,8),(2,3,9),(6,8,23),(3,4,14)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,9),(9,13,38),(6,8,25),(3,4,14)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,3,9),(12,17,52),(5,7,21),(9,13,38)); lvl=4; h,r-ind=1,3
          [3,3]((5,7,21),(12,17,52),(7,10,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,9),(12,17,52),(7,10,30)); lvl=5; h,r-ind=1,1
          [3,3]((9,13,38),(5,7,21),(7,10,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,9),(9,13,38),(7,10,30)); lvl=5; h,r-ind=1,1
        [3,3]((12,17,52),(3,4,13),(5,7,21)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,4,13),(6,8,25),(5,7,21)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,9),(12,17,52),(3,4,13),(3,4,14)); lvl=4; h,r-ind=1,3
          [3,3]((3,4,13),(5,7,22),(12,17,52)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,9),(5,7,22),(12,17,52)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,14),(3,4,13),(5,7,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,9),(3,4,14),(5,7,22)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,8),(2,3,9),(9,13,38)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,8),(9,13,38),(3,4,12),(6,8,25)); lvl=3; h,r-ind=1,1
        [4,3]((5,7,21),(3,4,12),(10,14,41),(6,8,25)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,12),(8,11,33),(10,14,41)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,21),(8,11,33),(10,14,41)); lvl=5; h,r-ind=1,1
          [3,3]((6,8,25),(3,4,12),(8,11,33)); lvl=5; h,r-ind=1,1
          [3,3]((5,7,21),(6,8,25),(8,11,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,8),(5,7,21),(10,14,41)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(5,7,21),(9,13,38)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(3,4,12),(10,14,41)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,8),(6,8,23),(3,4,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(2,3,9),(3,4,14)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,12),(2,3,8),(2,3,9),(3,5,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,8),(2,3,9),(5,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(2,3,9),(5,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,12),(2,3,8),(5,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(3,5,12),(5,8,21)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,5),(3,5,12),(3,5,13)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,4),(5,9,22),(3,5,12),(3,5,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,12),(4,7,17),(3,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,22),(4,7,17),(3,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(3,5,12),(4,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,22),(1,2,4),(4,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(5,9,22),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,5),(5,9,22)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,4),(1,2,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(2,3,10),(2,3,9),(3,5,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,10),(3,5,14),(2,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(3,5,14),(2,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,3,10),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(1,2,5),(3,5,14)); lvl=3; h,r-ind=1,1
    [5,3]((3,4,9),(3,5,9),(3,5,12),(2,3,8),(6,8,23)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,6),(2,3,7),(6,10,21),(3,5,9)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,7),(3,5,10),(6,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(7,11,23),(3,5,10)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,6),(3,5,9),(7,11,23),(3,5,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,9),(5,8,16),(3,5,10)); lvl=5; h,r-ind=1,1
          [3,3]((7,11,23),(5,8,16),(3,5,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,6),(7,11,23),(5,8,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,6),(3,5,9),(5,8,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,6),(2,3,7),(7,11,23)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,9),(2,3,6),(2,3,7),(6,8,21)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,6),(7,10,23),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,10),(7,10,23),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,10),(6,8,21),(2,3,7)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,9),(3,4,10),(2,3,6),(7,10,23)); lvl=4; h,r-ind=1,2; alert-r-inc
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          [3,3]((5,7,16),(7,10,23),(3,4,10)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,9),(5,7,16),(3,4,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,6),(3,4,9),(5,7,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,6),(5,7,16),(7,10,23)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,7),(4,6,15),(6,10,21),(3,5,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,11),(7,11,26),(3,5,12)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
        [3,3]((4,6,15),(7,11,26),(3,5,12)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
        [3,3]((2,3,7),(4,6,15),(7,11,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(3,5,11),(7,11,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(6,10,21),(3,5,11)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,7),(6,8,21),(3,4,11),(4,6,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,18),(3,4,11),(6,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(5,7,18),(6,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(5,7,18),(3,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(4,6,15),(5,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,15),(3,5,12),(2,3,8)); lvl=3; h,r-ind=1,1
      [4,3]((6,8,23),(3,4,11),(4,6,15),(2,3,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,19),(3,4,11),(4,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(5,7,19),(4,6,15)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,23),(5,7,19),(3,4,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(6,8,23),(5,7,19)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(3,5,9),(3,5,12)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
[6,3]((3,4,16),(4,5,19),(4,5,20),(3,4,14),(2,3,10),(2,3,11)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,15),(4,5,20),(3,4,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,15),(2,3,11),(3,4,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,15),(2,3,11),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,19),(3,4,15),(4,5,20)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,19),(3,4,15),(3,4,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,15),(2,3,10),(3,4,14)); lvl=2; h,r-ind=1,1
[4,3]((4,5,23),(3,4,16),(4,5,22),(2,3,11)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,22),(3,4,16),(10,13,55)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,17),(2,3,11),(3,4,16),(10,13,55)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,16),(6,8,33),(2,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,17),(6,8,33),(2,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,55),(3,4,17),(6,8,33)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,55),(3,4,16),(6,8,33)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,23),(3,4,17),(4,5,22),(10,13,55)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,17),(10,13,55),(7,9,39)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,22),(10,13,55),(7,9,39)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,23),(3,4,17),(7,9,39)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,22),(4,5,23),(7,9,39)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(2,3,10),(2,3,11)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((4,5,23),(0,1,0),(2,3,11)); lvl=1; h,r-ind=2,2; optimized-h
[5,3]((3,3,13),(4,5,19),(4,5,20),(13,15,65),(1,1,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,3,13),(8,9,39),(11,12,51)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((8,9,38),(20,22,93),(6,7,30),(8,9,39),(11,12,51)); lvl=2; h,r-ind=1,1
      [4,3]((19,21,89),(17,19,81),(19,21,90),(11,12,51)); lvl=3; h,r-ind=1,1
        [3,3]((10,11,47),(17,19,81),(19,21,90)); lvl=4; h,r-ind=1,1
        [3,3]((18,20,85),(10,11,47),(17,19,81)); lvl=4; h,r-ind=1,1
        [4,3]((19,21,89),(18,20,85),(11,12,51),(10,11,47)); lvl=4; h,r-ind=1,1
          [3,3]((18,20,85),(10,11,47),(29,32,136)); lvl=5; h,r-ind=1,1
          [3,3]((11,12,51),(10,11,47),(29,32,136)); lvl=5; h,r-ind=1,1
          [3,3]((19,21,89),(18,20,85),(29,32,136)); lvl=5; h,r-ind=1,1
          [3,3]((11,12,51),(19,21,89),(29,32,136)); lvl=5; h,r-ind=1,1
      [3,3]((20,22,93),(19,21,89),(11,12,51)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,38),(20,22,93),(19,21,89)); lvl=3; h,r-ind=1,1
      [4,3]((8,9,38),(19,21,89),(7,8,34),(17,19,81)); lvl=3; h,r-ind=1,1
        [4,3]((8,9,38),(33,37,157),(19,21,89),(18,20,85)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((18,20,85),(26,29,123),(33,37,157)); lvl=5; h,r-ind=1,1
          [3,3]((8,9,38),(26,29,123),(33,37,157)); lvl=5; h,r-ind=1,1
          [3,3]((19,21,89),(18,20,85),(26,29,123)); lvl=5; h,r-ind=1,1
          [3,3]((8,9,38),(19,21,89),(26,29,123)); lvl=5; h,r-ind=1,1
        [4,3]((7,8,34),(33,37,157),(17,19,81),(18,20,85)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((25,28,119),(18,20,85),(33,37,157)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,34),(25,28,119),(33,37,157)); lvl=5; h,r-ind=1,1
          [3,3]((25,28,119),(17,19,81),(18,20,85)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,34),(25,28,119),(17,19,81)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,34),(8,9,38),(33,37,157)); lvl=4; h,r-ind=1,1
      [5,3]((7,8,34),(6,7,30),(17,19,81),(8,9,39),(19,21,90)); lvl=3; h,r-ind=1,1
        [4,3]((6,7,30),(22,25,107),(9,10,43),(8,9,39)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((9,10,43),(22,25,107),(15,17,73)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,30),(22,25,107),(15,17,73)); lvl=5; h,r-ind=1,1
          [3,3]((8,9,39),(9,10,43),(15,17,73)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,30),(8,9,39),(15,17,73)); lvl=5; h,r-ind=1,1
        [4,3]((7,8,34),(33,37,158),(22,25,107),(9,10,43)); lvl=4; h,r-ind=1,1
          [3,3]((33,37,158),(16,18,77),(9,10,43)); lvl=5; h,r-ind=1,1
          [3,3]((22,25,107),(16,18,77),(9,10,43)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,34),(33,37,158),(16,18,77)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,34),(22,25,107),(16,18,77)); lvl=5; h,r-ind=1,1
        [4,3]((33,37,158),(17,19,81),(19,21,90),(9,10,43)); lvl=4; h,r-ind=1,2; alert-r-inc
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```
        [3,3]((17,19,81),(19,21,90),(26,29,124)); lvl=5; h,r-ind=1,1
        [3,3]((9,10,43),(19,21,90),(26,29,124)); lvl=5; h,r-ind=1,1
        [3,3]((33,37,158),(17,19,81),(26,29,124)); lvl=5; h,r-ind=1,1
        [3,3]((9,10,43),(33,37,158),(26,29,124)); lvl=5; h,r-ind=1,1
      [3,3]((7,8,34),(33,37,158),(17,19,81)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,34),(6,7,30),(22,25,107)); lvl=4; h,r-ind=1,1
  [4,3]((8,9,38),(13,15,63),(11,13,55),(6,7,30)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((7,8,34),(6,7,30),(11,13,55),(12,14,59)); lvl=3; h,r-ind=1,1
      [3,3]((18,21,89),(11,13,55),(6,7,30)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,34),(18,21,89),(6,7,30)); lvl=4; h,r-ind=1,1
      [3,3]((12,14,59),(18,21,89),(11,13,55)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,34),(12,14,59),(18,21,89)); lvl=4; h,r-ind=1,1
    [4,3]((8,9,38),(7,8,34),(13,15,63),(12,14,59)); lvl=3; h,r-ind=1,1
      [3,3]((20,23,97),(12,14,59),(7,8,34)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,38),(20,23,97),(7,8,34)); lvl=4; h,r-ind=1,1
      [3,3]((13,15,63),(20,23,97),(12,14,59)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,38),(13,15,63),(20,23,97)); lvl=4; h,r-ind=1,1
  [4,3]((13,15,63),(4,5,20),(5,6,24),(11,13,55)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((6,7,29),(5,6,25),(4,5,20),(5,6,24)); lvl=3; h,r-ind=1,1
      [3,3]((10,12,49),(4,5,20),(5,6,25)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,29),(10,12,49),(5,6,25)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,24),(10,12,49),(4,5,20)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,29),(5,6,24),(10,12,49)); lvl=4; h,r-ind=1,1
    [3,3]((6,7,29),(12,14,59),(5,6,25)); lvl=3; h,r-ind=1,1
    [3,3]((12,14,59),(11,13,55),(5,6,25)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,29),(13,15,63),(12,14,59)); lvl=3; h,r-ind=1,1
  [3,3]((4,5,19),(4,5,20),(5,6,24)); lvl=2; h,r-ind=1,1
  [5,3]((1,1,4),(8,9,38),(20,22,93),(13,15,63),(5,6,24)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(20,22,93),(9,10,42)); lvl=3; h,r-ind=1,1
    [3,3]((8,9,38),(20,22,93),(9,10,42)); lvl=3; h,r-ind=1,1
    [4,3]((8,9,38),(24,27,113),(23,26,109),(9,10,42)); lvl=3; h,r-ind=1,1
      [3,3]((32,36,151),(24,27,113),(23,26,109)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,38),(32,36,151),(23,26,109)); lvl=4; h,r-ind=1,1
      [3,3]((9,10,42),(8,9,38),(32,36,151)); lvl=4; h,r-ind=1,1
      [3,3]((9,10,42),(32,36,151),(24,27,113)); lvl=4; h,r-ind=1,1
    [4,3]((8,9,38),(23,26,109),(14,16,67),(13,15,63)); lvl=3; h,r-ind=1,1
      [3,3]((22,25,105),(23,26,109),(14,16,67)); lvl=4; h,r-ind=1,1
      [3,3]((13,15,63),(22,25,105),(14,16,67)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,38),(13,15,63),(22,25,105)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,38),(22,25,105),(23,26,109)); lvl=4; h,r-ind=1,1
    [4,3]((24,27,113),(16,18,75),(1,1,4),(9,10,42)); lvl=3; h,r-ind=1,1
      [3,3]((25,28,117),(1,1,4),(16,18,75)); lvl=4; h,r-ind=1,1
      [3,3]((24,27,113),(25,28,117),(16,18,75)); lvl=4; h,r-ind=1,1
      [3,3]((9,10,42),(24,27,113),(25,28,117)); lvl=4; h,r-ind=1,1
      [3,3]((9,10,42),(25,28,117),(1,1,4)); lvl=4; h,r-ind=1,1
    [5,3]((24,27,113),(23,26,109),(14,16,67),(16,18,75),(6,7,29)); lvl=3; h,r-ind=1,1
      [3,3]((15,17,71),(14,16,67),(6,7,29)); lvl=4; h,r-ind=1,1
      [3,3]((16,18,75),(15,17,71),(6,7,29)); lvl=4; h,r-ind=1,1
      [3,3]((24,27,113),(16,18,75),(15,17,71)); lvl=4; h,r-ind=1,1
      [3,3]((23,26,109),(15,17,71),(14,16,67)); lvl=4; h,r-ind=1,1
      [3,3]((23,26,109),(24,27,113),(15,17,71)); lvl=4; h,r-ind=1,1
    [3,3]((14,16,67),(13,15,63),(6,7,29)); lvl=3; h,r-ind=1,1
    [4,3]((16,18,75),(5,6,24),(6,7,29),(1,1,4)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((6,7,29),(7,8,33),(5,6,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(7,8,33),(5,6,24)); lvl=4; h,r-ind=1,1
      [3,3]((16,18,75),(1,1,4),(7,8,33)); lvl=4; h,r-ind=1,1
      [3,3]((16,18,75),(6,7,29),(7,8,33)); lvl=4; h,r-ind=1,1
  [3,3]((4,5,19),(1,1,4),(5,6,24)); lvl=2; h,r-ind=1,1
  [3,3]((6,7,30),(13,15,65),(8,9,39)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,4),(20,22,93),(3,3,13),(11,12,51)); lvl=2; h,r-ind=1,1
    [3,3]((20,22,93),(12,13,55),(11,12,51)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,13),(12,13,55),(11,12,51)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,4),(20,22,93),(12,13,55)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,13),(1,1,4),(12,13,55)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(3,3,13),(1,1,4)); lvl=1; h,r-ind=1,1
[5,3]((3,4,16),(4,5,20),(9,11,49),(4,5,22),(13,15,65)); lvl=1; h,r-ind=1,1
  [4,3]((4,5,21),(11,13,55),(9,11,47),(4,5,20)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,25),(10,12,51),(11,13,55)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,25),(23,28,118),(14,17,72),(10,12,51)); lvl=3; h,r-ind=1,1
      [3,3]((23,28,118),(19,23,97),(14,17,72)); lvl=4; h,r-ind=1,1
      [3,3]((10,12,51),(19,23,97),(14,17,72)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,25),(10,12,51),(19,23,97)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,25),(23,28,118),(19,23,97)); lvl=4; h,r-ind=1,1
    [3,3]((9,11,47),(14,17,72),(10,12,51)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,21),(4,5,20),(5,6,25),(23,28,118)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((9,11,46),(5,6,25),(4,5,20)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,21),(9,11,46),(4,5,20)); lvl=4; h,r-ind=1,1
      [3,3]((23,28,118),(9,11,46),(5,6,25)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,21),(23,28,118),(9,11,46)); lvl=4; h,r-ind=1,1
    [4,3]((4,5,21),(9,11,47),(23,28,118),(14,17,72)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((18,22,93),(9,11,47),(14,17,72)); lvl=4; h,r-ind=1,1
      [3,3]((23,28,118),(18,22,93),(14,17,72)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,21),(23,28,118),(18,22,93)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,21),(18,22,93),(9,11,47)); lvl=4; h,r-ind=1,1
  [3,3]((3,4,16),(4,5,21),(4,5,20)); lvl=2; h,r-ind=1,1
  [4,3]((5,6,26),(6,7,30),(11,13,55),(9,11,47)); lvl=2; h,r-ind=1,1
    [4,3]((21,25,107),(10,12,51),(6,7,30),(11,13,55)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((16,19,81),(10,12,51),(11,13,55)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,30),(16,19,81),(11,13,55)); lvl=4; h,r-ind=1,1
      [3,3]((21,25,107),(16,19,81),(10,12,51)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,30),(21,25,107),(16,19,81)); lvl=4; h,r-ind=1,1
    [3,3]((5,6,26),(21,25,107),(6,7,30)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,26),(21,25,107),(9,11,47),(10,12,51)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((21,25,107),(15,18,77),(10,12,51)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,47),(15,18,77),(10,12,51)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,26),(9,11,47),(15,18,77)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,26),(21,25,107),(15,18,77)); lvl=4; h,r-ind=1,1
  [4,3]((13,15,65),(5,6,26),(11,13,57),(6,7,30)); lvl=2; h,r-ind=1,1
    [4,3]((12,14,61),(23,27,117),(11,13,57),(5,6,26)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((17,20,87),(5,6,26),(23,27,117)); lvl=4; h,r-ind=1,1
      [3,3]((12,14,61),(17,20,87),(23,27,117)); lvl=4; h,r-ind=1,1
      [3,3]((11,13,57),(17,20,87),(5,6,26)); lvl=4; h,r-ind=1,1
      [3,3]((12,14,61),(11,13,57),(17,20,87)); lvl=4; h,r-ind=1,1
    [3,3]((6,7,30),(23,27,117),(5,6,26)); lvl=3; h,r-ind=1,1
    [4,3]((13,15,65),(12,14,61),(6,7,30),(23,27,117)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((18,21,91),(12,14,61),(23,27,117)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,30),(18,21,91),(23,27,117)); lvl=4; h,r-ind=1,1
      [3,3]((13,15,65),(18,21,91),(12,14,61)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,30),(13,15,65),(18,21,91)); lvl=4; h,r-ind=1,1
  [4,3]((4,5,22),(4,5,21),(9,11,47),(9,11,48)); lvl=2; h,r-ind=1,1
    [3,3]((13,16,69),(9,11,47),(4,5,21)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,22),(13,16,69),(4,5,21)); lvl=3; h,r-ind=1,1
    [3,3]((9,11,48),(4,5,22),(13,16,69)); lvl=3; h,r-ind=1,1
    [3,3]((9,11,48),(13,16,69),(9,11,47)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,16),(4,5,22),(4,5,21)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,22),(9,11,49),(9,11,48)); lvl=2; h,r-ind=1,1
  [3,3]((5,6,26),(9,11,47),(9,11,48)); lvl=2; h,r-ind=1,1
  [4,3]((9,11,49),(5,6,26),(11,13,57),(9,11,48)); lvl=2; h,r-ind=1,1
    [4,3]((11,13,57),(10,12,53),(5,6,26),(19,23,101)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((15,18,79),(10,12,53),(19,23,101)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,26),(15,18,79),(19,23,101)); lvl=4; h,r-ind=1,1
      [3,3]((11,13,57),(15,18,79),(10,12,53)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,26),(11,13,57),(15,18,79)); lvl=4; h,r-ind=1,1
    [3,3]((9,11,48),(5,6,26),(19,23,101)); lvl=3; h,r-ind=1,1
    [3,3]((9,11,49),(9,11,48),(19,23,101)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((9,11,49),(10,12,53),(19,23,101)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[5,3]((4,5,23),(2,2,9),(3,3,13),(9,11,49),(13,15,65)); lvl=1; h,r-ind=1,1
  [4,3]((6,7,31),(8,9,39),(13,15,65),(11,13,57)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((7,8,35),(12,14,61),(8,9,39),(13,15,65)); lvl=3; h,r-ind=1,1
      [3,3]((20,23,100),(13,15,65),(12,14,61)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,35),(20,23,100),(12,14,61)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,39),(7,8,35),(20,23,100)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,39),(20,23,100),(13,15,65)); lvl=4; h,r-ind=1,1
    [4,3]((7,8,35),(6,7,31),(11,13,57),(12,14,61)); lvl=3; h,r-ind=1,1
      [3,3]((18,21,92),(11,13,57),(6,7,31)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,35),(18,21,92),(6,7,31)); lvl=4; h,r-ind=1,1
      [3,3]((12,14,61),(18,21,92),(11,13,57)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,35),(12,14,61),(18,21,92)); lvl=4; h,r-ind=1,1
  [4,3]((6,7,31),(5,6,27),(9,11,49),(11,13,57)); lvl=2; h,r-ind=1,1
    [4,3]((21,25,111),(10,12,53),(5,6,27),(9,11,49)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((10,12,53),(9,11,49),(15,18,80)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,27),(9,11,49),(15,18,80)); lvl=4; h,r-ind=1,1
      [3,3]((21,25,111),(10,12,53),(15,18,80)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,27),(21,25,111),(15,18,80)); lvl=4; h,r-ind=1,1
    [3,3]((6,7,31),(21,25,111),(5,6,27)); lvl=3; h,r-ind=1,1
    [4,3]((6,7,31),(21,25,111),(11,13,57),(10,12,53)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((16,19,84),(21,25,111),(10,12,53)); lvl=4; h,r-ind=1,1
      [3,3]((11,13,57),(16,19,84),(10,12,53)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,31),(11,13,57),(16,19,84)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,31),(16,19,84),(21,25,111)); lvl=4; h,r-ind=1,1
  [3,3]((4,5,23),(5,6,27),(9,11,49)); lvl=2; h,r-ind=1,1
  [4,3]((6,7,31),(3,3,13),(11,12,53),(8,9,39)); lvl=2; h,r-ind=1,1
    [3,3]((9,10,44),(11,12,53),(3,3,13)); lvl=3; h,r-ind=1,1
    [3,3]((19,21,92),(9,10,44),(3,3,13)); lvl=3; h,r-ind=1,1
    [4,3]((7,8,35),(8,9,39),(19,21,92),(3,3,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,13),(10,11,48),(8,9,39)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,35),(10,11,48),(8,9,39)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,35),(19,21,92),(10,11,48)); lvl=4; h,r-ind=1,1
      [3,3]((19,21,92),(3,3,13),(10,11,48)); lvl=4; h,r-ind=1,1
    [4,3]((6,7,31),(7,8,35),(19,21,92),(9,10,44)); lvl=3; h,r-ind=1,1
```

```
        [3,3]((7,8,35),(16,18,79),(19,21,92)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,44),(16,18,79),(19,21,92)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,31),(9,10,44),(16,18,79)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,31),(7,8,35),(16,18,79)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,31),(9,10,44),(11,12,53)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,9),(3,3,13),(11,12,53)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,9),(6,7,31),(5,6,27),(11,12,53)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((8,9,40),(6,7,31),(5,6,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,9),(8,9,40),(5,6,27)); lvl=3; h,r-ind=1,1
      [3,3]((11,12,53),(8,9,40),(6,7,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,9),(11,12,53),(8,9,40)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,23),(2,2,9),(5,6,27)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(4,5,23),(2,2,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,9),(3,3,13)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,23),(9,11,49),(4,5,22)); lvl=1; h,r-ind=1,1
```

23.60 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,6,23)); lvl=0; h,r-ind=23,529
  [5,3]((2,2,7),(4,5,17),(2,3,9),(2,3,6),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,13),(4,5,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,7),(1,1,3),(4,5,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,7),(1,0,0),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(1,1,3),(3,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(1,1,3),(4,6,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,1,3),(2,3,6),(4,6,15),(1,1,2)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,2),(4,5,12),(2,3,7),(2,3,6)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,9),(4,5,12),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,6),(3,4,9),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(2,3,6),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,2),(3,4,9),(4,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,2),(4,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,12),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(4,6,15),(2,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,6),(1,0,0)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((2,2,7),(3,3,11),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((4,6,23),(11,13,48),(3,3,11),(3,4,15),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((3,3,11),(4,4,15),(10,11,41),(1,0,0)); lvl=2; h,r-ind=1,1
      [3,3]((7,7,26),(4,4,15),(10,11,41)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,11),(7,7,26),(10,11,41)); lvl=3; h,r-ind=1,1
      [3,3]((7,7,26),(1,0,0),(4,4,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,11),(7,7,26),(1,0,0)); lvl=3; h,r-ind=1,1
    [3,3]((11,13,48),(3,3,11),(6,7,26)); lvl=2; h,r-ind=1,1
    [3,3]((8,9,34),(4,4,15),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,23),(8,9,34),(1,0,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [6,3]((8,9,34),(4,4,15),(14,17,64),(10,12,45),(13,15,56),(10,11,41)); lvl=2; h,r-ind=1,1
      [3,3]((7,8,30),(10,11,41),(4,4,15)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,34),(7,8,30),(4,4,15)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,34),(11,13,49),(7,8,30)); lvl=3; h,r-ind=1,1
      [3,3]((11,13,49),(7,8,30),(14,17,64)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,30),(10,11,41),(13,15,56)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,30),(10,12,45),(13,15,56)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,30),(14,17,64),(10,12,45)); lvl=3; h,r-ind=1,1
    [4,3]((3,3,11),(6,7,26),(13,15,56),(10,11,41)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,26),(13,15,56),(16,18,67)); lvl=3; h,r-ind=1,1
      [3,3]((10,11,41),(13,15,56),(16,18,67)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,11),(6,7,26),(16,18,67)); lvl=3; h,r-ind=1,1
      [3,3]((10,11,41),(3,3,11),(16,18,67)); lvl=3; h,r-ind=1,1
    [4,3]((4,6,23),(7,9,34),(8,9,34),(14,17,64)); lvl=2; h,r-ind=1,1
      [4,3]((7,9,34),(14,17,64),(18,22,83),(29,36,136)); lvl=3; h,r-ind=1,1
        [3,3]((14,17,64),(25,31,117),(18,22,83)); lvl=4; h,r-ind=1,1
        [3,3]((29,36,136),(25,31,117),(18,22,83)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,34),(29,36,136),(25,31,117)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,34),(14,17,64),(25,31,117)); lvl=4; h,r-ind=1,1
      [4,3]((4,5,19),(11,13,49),(18,22,83),(29,36,136)); lvl=3; h,r-ind=1,1
        [3,3]((11,13,49),(22,27,102),(18,22,83)); lvl=4; h,r-ind=1,1
        [3,3]((29,36,136),(22,27,102),(18,22,83)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,19),(11,13,49),(22,27,102)); lvl=4; h,r-ind=1,1
        [3,3]((29,36,136),(4,5,19),(22,27,102)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,19),(8,9,34),(11,13,49)); lvl=3; h,r-ind=1,1
      [4,3]((4,6,23),(4,5,19),(7,9,34),(29,36,136)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((4,5,19),(29,36,136),(11,14,53)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,34),(29,36,136),(11,14,53)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,23),(4,5,19),(11,14,53)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,34),(4,6,23),(11,14,53)); lvl=4; h,r-ind=1,1
      [3,3]((11,13,49),(14,17,64),(18,22,83)); lvl=3; h,r-ind=1,1
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    [4,3]((3,4,15),(7,9,34),(14,17,64),(10,12,45)); lvl=2; h,r-ind=1,1
      [3,3]((17,21,79),(14,17,64),(7,9,34)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,15),(17,21,79),(7,9,34)); lvl=3; h,r-ind=1,1
      [3,3]((10,12,45),(17,21,79),(14,17,64)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,15),(10,12,45),(17,21,79)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,23),(3,4,15),(7,9,34)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,15),(6,7,26),(10,12,45),(13,15,56)); lvl=2; h,r-ind=1,1
      [3,3]((16,19,71),(13,15,56),(6,7,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,15),(16,19,71),(6,7,26)); lvl=3; h,r-ind=1,1
      [3,3]((10,12,45),(3,4,15),(16,19,71)); lvl=3; h,r-ind=1,1
      [3,3]((10,12,45),(16,19,71),(13,15,56)); lvl=3; h,r-ind=1,1
    [3,3]((11,13,48),(3,4,15),(6,7,26)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,14),(4,5,17),(4,6,21),(2,3,9)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,13),(2,3,10),(2,3,9)); lvl=2; h,r-ind=1,1
    [4,3]((6,8,27),(11,15,51),(3,4,13),(2,3,10)); lvl=2; h,r-ind=1,1
      [3,3]((11,15,51),(2,3,10),(8,11,37)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(2,3,10),(8,11,37)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,27),(11,15,51),(8,11,37)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,27),(3,4,13),(8,11,37)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,14),(11,15,51),(4,6,21),(2,3,10)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((5,7,24),(4,6,21),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((11,15,51),(5,7,24),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,14),(11,15,51),(5,7,24)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,14),(5,7,24),(4,6,21)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,17),(6,8,27),(3,4,13)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,14),(4,5,17),(6,8,27),(11,15,51)); lvl=2; h,r-ind=1,1
      [3,3]((9,12,41),(4,5,17),(6,8,27)); lvl=3; h,r-ind=1,1
      [3,3]((11,15,51),(9,12,41),(6,8,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,14),(11,15,51),(9,12,41)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,14),(9,12,41),(4,5,17)); lvl=3; h,r-ind=1,1
  [5,3]((11,13,48),(3,4,14),(3,4,15),(2,3,11),(4,6,21)); lvl=1; h,r-ind=1,1
    [5,3]((3,4,15),(5,6,22),(9,11,40),(14,19,70),(13,17,62)); lvl=2; h,r-ind=1,1
      [4,3]((7,9,33),(11,14,51),(9,12,44),(13,17,62)); lvl=3; h,r-ind=1,1
        [3,3]((11,14,51),(13,17,62),(20,26,95)); lvl=4; h,r-ind=1,1
        [3,3]((9,12,44),(13,17,62),(20,26,95)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,33),(9,12,44),(20,26,95)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,33),(11,14,51),(20,26,95)); lvl=4; h,r-ind=1,1
      [3,3]((19,25,92),(7,9,33),(9,12,44)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,15),(14,19,70),(19,25,92),(9,12,44)); lvl=3; h,r-ind=1,1
        [3,3]((9,12,44),(14,19,70),(12,16,59)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,15),(14,19,70),(12,16,59)); lvl=4; h,r-ind=1,1
        [3,3]((19,25,92),(9,12,44),(12,16,59)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,15),(19,25,92),(12,16,59)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,15),(19,25,92),(7,9,33)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,40),(7,9,33),(11,14,51)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,22),(9,11,40),(7,9,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,15),(5,6,22),(7,9,33)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,11),(5,7,25),(14,19,70),(13,17,62)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((9,12,44),(6,8,29),(13,17,62)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,44),(19,26,95),(6,8,29)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((2,3,11),(5,7,25),(19,26,95),(6,8,29)); lvl=3; h,r-ind=1,3
        [3,3]((6,8,29),(5,7,25),(8,11,40)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(5,7,25),(8,11,40)); lvl=4; h,r-ind=1,1
        [3,3]((19,26,95),(6,8,29),(8,11,40)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(19,26,95),(8,11,40)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,11),(14,19,70),(9,12,44),(19,26,95)); lvl=3; h,r-ind=1,3
        [3,3]((11,15,55),(9,12,44),(14,19,70)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(11,15,55),(14,19,70)); lvl=4; h,r-ind=1,1
        [3,3]((19,26,95),(11,15,55),(9,12,44)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(19,26,95),(11,15,55)); lvl=4; h,r-ind=1,1
    [3,3]((4,6,21),(5,7,25),(3,4,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,15),(2,3,11),(14,19,70)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,11),(4,6,21),(5,7,25)); lvl=2; h,r-ind=1,1
    [4,3]((5,7,25),(3,4,14),(9,11,40),(13,17,62)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((4,5,18),(11,14,51),(9,11,40)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,29),(4,5,18),(11,14,51)); lvl=3; h,r-ind=1,1
      [3,3]((13,17,62),(6,8,29),(11,14,51)); lvl=3; h,r-ind=1,1
      [4,3]((6,8,29),(5,7,25),(3,4,14),(4,5,18)); lvl=3; h,r-ind=1,1
        [3,3]((9,12,43),(5,7,25),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,18),(9,12,43),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,29),(4,5,18),(9,12,43)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,29),(9,12,43),(5,7,25)); lvl=4; h,r-ind=1,1
    [3,3]((11,13,48),(3,4,15),(5,6,22)); lvl=2; h,r-ind=1,1
  [3,3]((4,6,23),(3,4,15),(2,3,11)); lvl=1; h,r-ind=1,1
  [5,3]((11,13,48),(2,2,7),(3,3,11),(3,4,14),(4,5,17)); lvl=1; h,r-ind=1,1
    [3,3]((3,3,11),(2,2,7),(14,15,54)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,21),(13,15,54),(2,2,7),(14,15,54)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((2,2,7),(19,21,75),(9,10,36),(14,15,54)); lvl=3; h,r-ind=1,3
        [3,3]((11,12,43),(9,10,36),(19,21,75)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,7),(11,12,43),(19,21,75)); lvl=4; h,r-ind=1,1
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      [3,3]((11,12,43),(14,15,54),(9,10,36)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,7),(11,12,43),(14,15,54)); lvl=4; h,r-ind=1,1
    [3,3]((6,7,25),(19,21,75),(9,10,36)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [4,3]((2,2,7),(5,6,21),(6,7,25),(19,21,75)); lvl=3; h,r-ind=1,3
      [3,3]((8,9,32),(6,7,25),(5,6,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,7),(8,9,32),(5,6,21)); lvl=4; h,r-ind=1,1
      [3,3]((19,21,75),(8,9,32),(6,7,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,7),(19,21,75),(8,9,32)); lvl=4; h,r-ind=1,1
    [3,3]((6,7,25),(9,10,36),(13,15,54)); lvl=3; h,r-ind=1,1
  [3,3]((4,5,17),(5,6,21),(2,2,7)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,14),(4,5,17),(5,6,21)); lvl=2; h,r-ind=1,1
  [4,3]((9,11,40),(3,4,14),(5,6,21),(13,15,54)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((4,5,18),(3,4,14),(5,6,21),(6,7,25)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,39),(5,6,21),(3,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,18),(9,11,39),(3,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,25),(9,11,39),(5,6,21)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,18),(6,7,25),(9,11,39)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,18),(11,13,47),(6,7,25)); lvl=3; h,r-ind=1,1
    [3,3]((11,13,47),(13,15,54),(6,7,25)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,18),(9,11,40),(11,13,47)); lvl=3; h,r-ind=1,1
  [5,3]((9,11,40),(5,6,22),(13,15,54),(3,3,11),(14,15,54)); lvl=2; h,r-ind=1,1
    [4,3]((19,21,76),(9,10,36),(14,15,54),(3,3,11)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,36),(14,15,54),(12,13,47)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,11),(14,15,54),(12,13,47)); lvl=4; h,r-ind=1,1
      [3,3]((19,21,76),(3,3,11),(12,13,47)); lvl=4; h,r-ind=1,1
      [3,3]((19,21,76),(9,10,36),(12,13,47)); lvl=4; h,r-ind=1,1
    [3,3]((19,21,76),(7,8,29),(3,3,11)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,22),(7,8,29),(3,3,11)); lvl=3; h,r-ind=1,1
    [3,3]((9,11,40),(5,6,22),(7,8,29)); lvl=3; h,r-ind=1,1
    [3,3]((19,21,76),(7,8,29),(9,10,36)); lvl=3; h,r-ind=1,1
    [4,3]((11,13,47),(7,8,29),(13,15,54),(9,10,36)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,29),(9,10,36),(20,23,83)); lvl=4; h,r-ind=1,1
      [3,3]((13,15,54),(9,10,36),(20,23,83)); lvl=4; h,r-ind=1,1
      [3,3]((11,13,47),(7,8,29),(20,23,83)); lvl=4; h,r-ind=1,1
      [3,3]((13,15,54),(11,13,47),(20,23,83)); lvl=4; h,r-ind=1,1
    [3,3]((11,13,47),(9,11,40),(7,8,29)); lvl=3; h,r-ind=1,1
  [3,3]((11,13,48),(5,6,22),(3,3,11)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(1,2,5),(2,3,9),(2,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,4),(2,3,9),(1,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,4),(4,6,15),(2,3,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,2,4),(1,2,3),(2,3,6),(4,6,15)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,7),(1,2,3),(2,3,6),(4,7,14)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,10),(2,3,6),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,14),(3,5,10),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(4,7,14),(3,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(3,5,10),(2,3,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,7),(4,7,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,7),(4,6,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(4,7,14)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
[4,3]((4,6,21),(1,2,5),(3,5,16),(2,3,9)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,16),(1,2,5),(6,10,31)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,10),(1,2,5),(6,10,31)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,9),(2,3,10),(1,2,5)); lvl=2; h,r-ind=1,1
  [4,3]((4,6,21),(2,3,10),(3,5,16),(6,10,31)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((5,8,26),(3,5,16),(6,10,31)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,26),(2,3,10),(6,10,31)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,21),(5,8,26),(2,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,21),(5,8,26),(3,5,16)); lvl=3; h,r-ind=1,1
[4,3]((0,1,0),(1,2,5),(3,5,16),(4,7,22)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,5),(3,5,16),(6,11,32)); lvl=2; h,r-ind=1,1
  [4,3]((2,4,11),(4,7,22),(3,5,16),(6,11,32)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((5,9,27),(3,5,16),(4,7,22)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,11),(5,9,27),(4,7,22)); lvl=3; h,r-ind=1,1
    [3,3]((6,11,32),(5,9,27),(3,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,11),(6,11,32),(5,9,27)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(2,4,11),(1,2,5),(6,11,32)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((3,6,16),(6,11,32),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(3,6,16),(2,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(0,1,0),(3,6,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(3,6,16),(6,11,32)); lvl=3; h,r-ind=1,1
[5,3]((5,8,28),(2,3,11),(4,6,21),(3,5,16),(4,7,22)); lvl=1; h,r-ind=1,1
  [4,3]((5,8,27),(8,13,44),(11,18,60),(2,3,11)); lvl=2; h,r-ind=1,1
    [3,3]((11,18,60),(8,13,44),(13,21,71)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,11),(8,13,44),(13,21,71)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,27),(2,3,11),(13,21,71)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,27),(11,18,60),(13,21,71)); lvl=3; h,r-ind=1,1
  [3,3]((4,6,21),(5,8,27),(2,3,11)); lvl=2; h,r-ind=1,1
  [3,3]((5,8,28),(8,13,44),(2,3,11)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((5,8,27),(9,15,49),(11,18,60),(3,5,16)); lvl=2; h,r-ind=1,1
      [3,3]((11,18,60),(9,15,49),(14,23,76)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,16),(9,15,49),(14,23,76)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,27),(3,5,16),(14,23,76)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,27),(11,18,60),(14,23,76)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,21),(5,8,27),(3,5,16)); lvl=2; h,r-ind=1,1
    [4,3]((4,7,22),(8,13,44),(9,15,49),(11,18,60)); lvl=2; h,r-ind=1,1
      [4,3]((6,10,33),(8,13,44),(11,18,60),(26,43,142)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,13,44),(17,28,93),(11,18,60)); lvl=4; h,r-ind=1,1
        [3,3]((26,43,142),(17,28,93),(11,18,60)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,33),(26,43,142),(17,28,93)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,33),(8,13,44),(17,28,93)); lvl=4; h,r-ind=1,1
      [3,3]((9,15,49),(11,18,60),(26,43,142)); lvl=3; h,r-ind=1,1
      [4,3]((9,15,49),(4,7,22),(6,10,33),(26,43,142)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,7,22),(15,25,82),(6,10,33)); lvl=4; h,r-ind=1,1
        [3,3]((26,43,142),(15,25,82),(6,10,33)); lvl=4; h,r-ind=1,1
        [3,3]((9,15,49),(4,7,22),(15,25,82)); lvl=4; h,r-ind=1,1
        [3,3]((26,43,142),(9,15,49),(15,25,82)); lvl=4; h,r-ind=1,1
    [3,3]((5,8,28),(4,7,22),(8,13,44)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,7,22),(9,15,49),(3,5,16)); lvl=2; h,r-ind=1,1
  [3,3]((4,6,23),(5,8,28),(2,3,11)); lvl=1; h,r-ind=1,1
  [4,3]((4,6,23),(5,8,28),(0,1,0),(4,7,22)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,17),(2,4,11),(4,7,22)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,28),(3,5,17),(4,7,22)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,23),(5,8,28),(3,5,17)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(4,6,23),(3,5,17)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,5,17),(2,4,11)); lvl=2; h,r-ind=1,1
```

23.61 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,9,23)); lvl=0; h,r-ind=23,529
  [4,3]((1,0,0),(1,2,4),(1,2,3),(2,3,7)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,2),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(1,1,2),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,7),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,5),(1,2,4),(2,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,5),(2,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,5),(4,9,22),(2,5,11)); lvl=1; h,r-ind=1,1
  [3,3]((4,9,23),(4,9,22),(2,5,11)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,9,23),(1,2,5),(4,9,22)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,9,23),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [4,3]((1,2,5),(2,5,11),(0,1,0),(1,2,4)); lvl=1; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,11),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(2,5,11),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(1,2,4),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(0,1,0),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((4,9,23),(2,5,11),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
```

23.62 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,10,23)); lvl=0; h,r-ind=23,529
  [3,3]((2,2,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,9),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,9),(3,7,16),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,10,23),(3,7,16),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,5,6),(2,2,3),(1,0,0)); lvl=1; h,r-ind=3,3
    [4,3]((1,1,1),(2,3,3),(2,2,3),(4,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,6),(2,3,4),(4,7,9)); lvl=3; h,r-ind=1,1
      [4,3]((4,6,7),(7,10,12),(3,5,6),(2,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((6,9,11),(7,10,12),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,6),(6,9,11),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,7),(6,9,11),(7,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,7),(3,5,6),(6,9,11)); lvl=4; h,r-ind=1,1
      [4,3]((2,2,3),(1,1,1),(7,10,12),(2,3,4)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(7,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,5),(7,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,7),(3,5,6),(2,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(4,6,7),(7,10,12),(2,3,3)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,8),(7,10,12),(4,6,7)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,3,3),(5,7,8),(4,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(5,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(5,7,8),(7,10,12)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,3),(2,5,6),(1,3,3),(4,7,9)); lvl=2; h,r-ind=3,1
    [4,3]((1,2,2),(2,4,5),(1,3,3),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,5,6),(3,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,6),(3,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(3,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(3,7,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(4,7,9),(3,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,3,3)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
[5,3]((2,5,6),(2,2,3),(1,1,2),(2,5,7),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(1,2,4),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,3),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,3),(4,7,9),(2,2,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,5,6),(1,2,3),(4,7,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,2,3),(2,5,7),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,6),(1,2,3),(2,5,7)); lvl=2; h,r-ind=1,1
[4,3]((2,4,9),(5,11,24),(1,1,2),(1,2,4)); lvl=1; h,r-ind=1,2
  [3,3]((3,6,13),(5,11,24),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,2),(3,6,13),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,4,9),(1,1,2),(3,6,13)); lvl=2; h,r-ind=1,1
  [3,3]((2,4,9),(3,6,13),(5,11,24)); lvl=2; h,r-ind=1,1
[5,3]((2,4,9),(3,7,16),(5,11,24),(7,16,35),(5,12,27)); lvl=1; h,r-ind=1,1
  [3,3]((4,9,20),(7,16,35),(6,14,31)); lvl=2; h,r-ind=1,1
  [3,3]((4,9,20),(5,12,27),(6,14,31)); lvl=2; h,r-ind=1,1
  [3,3]((4,9,20),(3,7,16),(5,12,27)); lvl=2; h,r-ind=1,1
  [3,3]((2,4,9),(4,9,20),(3,7,16)); lvl=2; h,r-ind=1,1
  [3,3]((4,9,20),(5,11,24),(7,16,35)); lvl=2; h,r-ind=1,1
  [3,3]((2,4,9),(4,9,20),(5,11,24)); lvl=2; h,r-ind=1,1
[5,3]((3,7,15),(7,16,35),(4,10,21),(2,5,11),(5,12,27)); lvl=1; h,r-ind=1,1
  [4,3]((8,19,42),(13,31,68),(2,5,11),(5,12,27)); lvl=2; h,r-ind=1,1
    [3,3]((10,24,53),(2,5,11),(13,31,68)); lvl=3; h,r-ind=1,1
    [3,3]((8,19,42),(10,24,53),(13,31,68)); lvl=3; h,r-ind=1,1
    [3,3]((8,19,42),(5,12,27),(10,24,53)); lvl=3; h,r-ind=1,1
    [3,3]((5,12,27),(10,24,53),(2,5,11)); lvl=3; h,r-ind=1,1
  [3,3]((6,14,31),(8,19,42),(5,12,27)); lvl=2; h,r-ind=1,1
  [3,3]((7,16,35),(6,14,31),(9,21,46)); lvl=2; h,r-ind=1,1
  [6,3]((6,14,31),(9,21,46),(14,33,72),(16,38,83),(8,19,42),(13,31,68)); lvl=2; h,r-ind=1,1
    [3,3]((11,26,57),(16,38,83),(14,33,72)); lvl=3; h,r-ind=1,1
    [3,3]((9,21,46),(11,26,57),(14,33,72)); lvl=3; h,r-ind=1,1
    [3,3]((9,21,46),(6,14,31),(11,26,57)); lvl=3; h,r-ind=1,1
    [3,3]((11,26,57),(16,38,83),(13,31,68)); lvl=3; h,r-ind=1,1
    [3,3]((8,19,42),(11,26,57),(13,31,68)); lvl=3; h,r-ind=1,1
    [3,3]((6,14,31),(8,19,42),(11,26,57)); lvl=3; h,r-ind=1,1
  [4,3]((3,7,15),(7,16,35),(9,21,46),(14,33,72)); lvl=2; h,r-ind=1,1
    [3,3]((7,16,35),(12,28,61),(9,21,46)); lvl=3; h,r-ind=1,1
    [3,3]((14,33,72),(12,28,61),(9,21,46)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,15),(14,33,72),(12,28,61)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,15),(7,16,35),(12,28,61)); lvl=3; h,r-ind=1,1
  [4,3]((16,38,83),(5,12,26),(13,31,68),(2,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,12,26),(2,5,11),(18,43,94)); lvl=3; h,r-ind=1,1
    [3,3]((13,31,68),(2,5,11),(18,43,94)); lvl=3; h,r-ind=1,1
    [3,3]((16,38,83),(13,31,68),(18,43,94)); lvl=3; h,r-ind=1,1
    [3,3]((16,38,83),(5,12,26),(18,43,94)); lvl=3; h,r-ind=1,1
  [3,3]((5,12,26),(2,5,11),(4,10,21)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,15),(5,12,26),(4,10,21)); lvl=2; h,r-ind=1,1
  [4,3]((3,7,15),(14,33,72),(16,38,83),(5,12,26)); lvl=2; h,r-ind=1,1
    [3,3]((19,45,98),(16,38,83),(14,33,72)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,15),(19,45,98),(14,33,72)); lvl=3; h,r-ind=1,1
    [3,3]((5,12,26),(19,45,98),(16,38,83)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,15),(5,12,26),(19,45,98)); lvl=3; h,r-ind=1,1
[3,3]((4,10,23),(2,5,11),(5,12,27)); lvl=1; h,r-ind=1,1
[3,3]((4,10,23),(3,7,16),(5,12,27)); lvl=1; h,r-ind=1,1
[4,3]((3,7,15),(5,11,24),(7,16,35),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((8,18,39),(5,11,24),(7,16,35)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,15),(8,18,39),(7,16,35)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,4),(8,18,39),(5,11,24)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,15),(1,2,4),(8,18,39)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(2,5,6),(2,5,7),(1,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,3),(2,5,6),(2,5,7),(4,11,14)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,5,6),(3,8,10),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,14),(3,8,10),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,6),(3,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,14),(1,3,3),(3,8,10)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((1,3,4),(2,5,7),(4,11,14)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,4),(1,3,3),(4,11,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,6,7),(1,3,4),(4,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,6,7),(4,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,6,7),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(0,1,0),(2,6,7)); lvl=3; h,r-ind=1,1
  [7,3]((3,7,15),(4,10,21),(3,8,16),(2,5,7),(1,3,5),(1,3,4),(1,2,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,16),(2,5,10),(4,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,15),(2,5,10),(4,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,15),(1,2,4),(2,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(3,8,16),(2,5,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(4,11,18),(2,5,9),(2,5,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,11,18),(3,8,14),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(3,8,14),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(4,11,18),(3,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(1,3,5),(3,8,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,9),(2,5,10)); lvl=2; h,r-ind=1,1
    [4,3]((4,11,18),(1,3,4),(2,5,9),(2,5,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,9),(2,5,8),(3,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,8),(3,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,18),(2,5,9),(3,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(4,11,18),(3,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,9),(2,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,7),(2,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,7),(2,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(4,11,18),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((4,10,23),(2,5,11),(5,13,28)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(4,11,22),(3,8,16),(1,3,5)); lvl=1; h,r-ind=1,1
    [4,3]((2,6,11),(4,11,22),(3,8,16),(6,17,32)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,14,27),(3,8,16),(4,11,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,11),(5,14,27),(4,11,22)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,32),(5,14,27),(3,8,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,11),(6,17,32),(5,14,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(3,8,16),(6,17,32)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,5),(2,6,11),(6,17,32)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,9,16),(1,3,5),(6,17,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,16),(2,6,11),(6,17,32)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(3,9,16),(2,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(3,9,16),(1,3,5)); lvl=3; h,r-ind=1,1
  [5,3]((4,10,21),(2,5,11),(5,13,28),(4,11,22),(3,8,16)); lvl=1; h,r-ind=1,1
    [3,3]((8,21,44),(5,13,28),(4,11,22)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((8,21,44),(9,24,49),(11,29,60),(4,11,22)); lvl=2; h,r-ind=1,1
      [3,3]((9,24,49),(11,29,60),(26,69,142)); lvl=3; h,r-ind=1,1
      [4,3]((6,16,33),(8,21,44),(11,29,60),(26,69,142)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((17,45,93),(11,29,60),(8,21,44)); lvl=4; h,r-ind=1,1
        [3,3]((6,16,33),(17,45,93),(8,21,44)); lvl=4; h,r-ind=1,1
        [3,3]((17,45,93),(26,69,142),(11,29,60)); lvl=4; h,r-ind=1,1
        [3,3]((6,16,33),(17,45,93),(26,69,142)); lvl=4; h,r-ind=1,1
      [4,3]((4,11,22),(6,16,33),(9,24,49),(26,69,142)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((15,40,82),(26,69,142),(6,16,33)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,22),(15,40,82),(6,16,33)); lvl=4; h,r-ind=1,1
        [3,3]((9,24,49),(4,11,22),(15,40,82)); lvl=4; h,r-ind=1,1
        [3,3]((9,24,49),(15,40,82),(26,69,142)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,16),(9,24,49),(4,11,22)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,11),(8,21,44),(11,29,60),(5,13,27)); lvl=2; h,r-ind=1,1
      [3,3]((13,34,71),(11,29,60),(8,21,44)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(13,34,71),(8,21,44)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,27),(2,5,11),(13,34,71)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,27),(13,34,71),(11,29,60)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,11),(4,10,21),(5,13,27)); lvl=2; h,r-ind=1,1
    [4,3]((3,8,16),(9,24,49),(11,29,60),(5,13,27)); lvl=2; h,r-ind=1,1
      [3,3]((11,29,60),(9,24,49),(14,37,76)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,16),(9,24,49),(14,37,76)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,27),(3,8,16),(14,37,76)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,27),(11,29,60),(14,37,76)); lvl=3; h,r-ind=1,1
    [3,3]((4,10,21),(3,8,16),(5,13,27)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,11),(8,21,44),(5,13,28)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(4,10,23),(5,13,28),(4,11,22)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,17),(4,10,23),(5,13,28)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,17),(4,11,22),(5,13,28)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,17),(2,6,11),(4,11,22)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,8,17),(2,6,11)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,8,17),(4,10,23)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=1; h,r-ind=1,1
```

23.63 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,13,23)); lvl=0; h,r-ind=23,529
  [5,3]((1,3,5),(3,7,12),(4,5,8),(2,3,5),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,13),(2,3,5),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(5,8,13),(4,5,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,3,5),(1,2,3),(4,8,13)); lvl=2; h,r-ind=1,1
    [4,3]((3,6,10),(5,8,13),(6,11,18),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((8,14,23),(5,8,13),(6,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,10),(8,14,23),(6,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(3,6,10),(8,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(8,14,23),(5,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,12),(3,6,10),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(4,8,13),(5,8,13),(6,11,18)); lvl=2; h,r-ind=1,1
      [3,3]((4,8,13),(6,11,18),(13,24,39)); lvl=3; h,r-ind=1,1
      [4,3]((5,8,13),(3,5,8),(6,11,18),(13,24,39)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,8),(13,24,39),(9,16,26)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,18),(13,24,39),(9,16,26)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,13),(3,5,8),(9,16,26)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,18),(5,8,13),(9,16,26)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(3,5,8),(4,8,13),(13,24,39)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,8),(7,13,21),(13,24,39)); lvl=4; h,r-ind=1,1
        [3,3]((4,8,13),(7,13,21),(13,24,39)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(4,8,13),(7,13,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(3,5,8),(7,13,21)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,5),(3,6,10),(4,8,13),(6,11,18)); lvl=2; h,r-ind=1,1
      [3,3]((3,6,10),(6,11,18),(7,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((4,8,13),(6,11,18),(7,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(3,6,10),(7,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((4,8,13),(1,3,5),(7,14,23)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,12),(1,3,5),(3,6,10)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(1,3,3),(4,5,8),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(2,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(2,3,4),(1,1,1)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,3),(5,6,8),(1,1,1)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(5,6,8),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,8),(1,2,3),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(4,5,8),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(1,3,3),(2,3,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,2),(4,7,9)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,4),(2,3,3),(1,2,2),(4,7,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,3),(3,5,6),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,9),(3,5,6),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,9),(2,3,4),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(1,2,3),(4,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,5),(1,3,3),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((2,7,11),(1,3,5),(0,1,0),(1,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,4,5),(2,8,9),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,4),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(1,3,4),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,5),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(1,4,5),(2,7,9)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(2,8,9),(1,3,3),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(1,4,4),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,8,9),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(1,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,11),(1,4,5),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,11),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(2,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((4,13,23),(2,7,11),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(4,5,8),(2,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((3,8,14),(3,7,12),(1,0,0),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,12),(2,3,5),(7,14,24)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,4,7),(2,3,5),(7,14,24)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,7,12),(2,4,7),(7,14,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(4,7,12),(7,14,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(4,7,12),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,0,0),(4,7,12)); lvl=3; h,r-ind=1,1
    [4,3]((3,8,14),(2,4,7),(3,7,12),(7,14,24)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,7),(7,14,24),(5,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(7,14,24),(5,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,14),(2,4,7),(5,11,19)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((3,7,12),(3,8,14),(5,11,19)); lvl=3; h,r-ind=1,1
  [3,3]((4,13,23),(3,8,14),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((7,20,35),(1,3,5),(3,8,14),(3,7,12)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,5),(3,7,12),(4,11,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,14),(3,7,12),(4,11,19)); lvl=2; h,r-ind=1,1
    [3,3]((7,20,35),(3,8,14),(4,11,19)); lvl=2; h,r-ind=1,1
    [3,3]((7,20,35),(1,3,5),(4,11,19)); lvl=2; h,r-ind=1,1
  [3,3]((4,13,23),(7,20,35),(3,8,14)); lvl=1; h,r-ind=1,1
  [3,3]((4,13,23),(7,20,35),(1,3,5)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((4,13,23),(4,13,22),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,11),(4,13,22),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,13,23),(2,7,11),(4,13,22)); lvl=1; h,r-ind=2,2; optimized-h
```

23.64 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,16,23)); lvl=0; h,r-ind=23,529
  [6,3]((4,8,11),(1,2,2),(1,3,3),(7,26,36),(3,10,14),(2,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,3),(1,3,4),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,13),(1,3,4),(1,2,2)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,8,11),(5,10,13),(1,3,4)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,8,11),(2,5,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(5,18,24),(1,3,4)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((5,18,24),(3,11,15),(1,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((3,11,15),(7,26,36),(1,3,4),(5,18,25)); lvl=2; h,r-ind=1,1
      [3,3]((7,26,36),(5,18,25),(8,29,40)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,18,25),(8,29,40)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,15),(7,26,36),(8,29,40)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,11,15),(8,29,40)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(3,10,14),(5,18,25)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(1,3,4),(3,10,14)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,10),(3,10,14),(2,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,7,10),(2,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((4,16,23),(2,7,10),(5,19,27)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,16,23),(2,7,10)); lvl=1; h,r-ind=1,1
  [4,3]((2,7,10),(7,26,36),(3,10,14),(5,19,27)); lvl=1; h,r-ind=1,1
    [3,3]((5,18,25),(3,10,14),(7,25,35)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,10),(13,47,66),(3,10,14),(7,25,35)); lvl=2; h,r-ind=1,1
      [3,3]((9,32,45),(7,25,35),(13,47,66)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(9,32,45),(13,47,66)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,14),(9,32,45),(7,25,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(3,10,14),(9,32,45)); lvl=3; h,r-ind=1,1
    [4,3]((13,47,66),(4,15,21),(5,18,25),(7,25,35)); lvl=2; h,r-ind=1,1
      [3,3]((11,40,56),(5,18,25),(4,15,21)); lvl=3; h,r-ind=1,1
      [3,3]((13,47,66),(11,40,56),(4,15,21)); lvl=3; h,r-ind=1,1
      [3,3]((7,25,35),(11,40,56),(5,18,25)); lvl=3; h,r-ind=1,1
      [3,3]((7,25,35),(13,47,66),(11,40,56)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,10),(13,47,66),(4,15,21),(5,19,27)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((6,22,31),(13,47,66),(4,15,21)); lvl=3; h,r-ind=1,1
      [3,3]((5,19,27),(6,22,31),(4,15,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(5,19,27),(6,22,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,10),(6,22,31),(13,47,66)); lvl=3; h,r-ind=1,1
    [3,3]((4,15,21),(7,26,36),(5,18,25)); lvl=2; h,r-ind=1,1
  [3,3]((4,16,23),(5,19,27),(3,12,17)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,8,11),(2,5,7)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,3,3),(7,26,36),(2,8,11)); lvl=1; h,r-ind=5,5
    [4,3]((2,8,11),(6,23,31),(3,11,15),(7,26,36)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,15),(6,23,31),(5,19,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(6,23,31),(5,19,26)); lvl=3; h,r-ind=1,1
      [3,3]((7,26,36),(3,11,15),(5,19,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(7,26,36),(5,19,26)); lvl=3; h,r-ind=1,1
    [4,3]((6,23,31),(1,4,5),(3,11,15),(5,18,24)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,5),(5,18,24),(4,15,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,15),(5,18,24),(4,15,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,15),(6,23,31),(4,15,20)); lvl=3; h,r-ind=1,1
      [3,3]((6,23,31),(1,4,5),(4,15,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,11),(6,23,31),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,11),(0,1,0),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(1,3,3),(5,18,24)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,4,5),(1,3,3),(2,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,8,9)); lvl=2; h,r-ind=3,9; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,4,5),(2,8,9)); lvl=2; h,r-ind=1,1
  [4,3]((7,26,36),(5,19,27),(3,12,17),(2,8,11)); lvl=1; h,r-ind=1,1
    [4,3]((9,35,49),(4,15,21),(5,19,27),(3,12,17)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,27,38),(5,19,27),(4,15,21)); lvl=3; h,r-ind=1,1
      [3,3]((9,35,49),(7,27,38),(4,15,21)); lvl=3; h,r-ind=1,1
      [3,3]((7,27,38),(3,12,17),(5,19,27)); lvl=3; h,r-ind=1,1
      [3,3]((9,35,49),(7,27,38),(3,12,17)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((2,8,11),(9,35,49),(3,12,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,11),(9,35,49),(4,15,21)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,11),(7,26,36),(4,15,21)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,12,17),(2,8,11)); lvl=1; h,r-ind=1,1
  [3,3]((4,16,23),(0,1,0),(3,12,17)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,8,11),(1,2,2)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

23.65 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,17,23)); lvl=0; h,r-ind=23,529
  [4,3]((2,7,9),(1,3,3),(2,9,11),(0,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,4),(0,1,0),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,12),(1,4,4),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,9),(3,11,12),(1,4,5),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,8),(1,4,5),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(1,3,3),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(2,7,8),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(2,7,8),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,9),(1,4,4),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,9),(1,4,5),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,11),(1,4,5),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((3,11,12),(2,9,9),(1,4,4),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,9),(1,4,4),(2,9,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,8,9),(2,9,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,12),(2,8,9),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,11,12),(2,8,9)); lvl=3; h,r-ind=1,1
  [3,3]((4,17,23),(2,9,11),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,2),(1,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((3,12,16),(2,7,9),(8,33,44),(2,9,11)); lvl=1; h,r-ind=1,1
    [4,3]((10,42,55),(7,29,38),(1,4,5),(2,9,11)); lvl=2; h,r-ind=1,1
      [3,3]((12,50,65),(1,4,5),(7,29,38)); lvl=3; h,r-ind=1,1
      [4,3]((10,42,55),(12,50,65),(4,17,22),(7,29,38)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,17,22),(11,46,60),(12,50,65)); lvl=4; h,r-ind=1,1
        [3,3]((7,29,38),(11,46,60),(12,50,65)); lvl=4; h,r-ind=1,1
        [3,3]((10,42,55),(4,17,22),(11,46,60)); lvl=4; h,r-ind=1,1
        [3,3]((7,29,38),(10,42,55),(11,46,60)); lvl=4; h,r-ind=1,1
      [3,3]((12,50,65),(4,17,22),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,11),(4,17,22),(1,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((10,41,54),(7,29,38),(14,57,75),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,5),(7,29,38),(11,45,59)); lvl=3; h,r-ind=1,1
      [3,3]((10,41,54),(7,29,38),(11,45,59)); lvl=3; h,r-ind=1,1
      [3,3]((10,41,54),(14,57,75),(11,45,59)); lvl=3; h,r-ind=1,1
      [3,3]((14,57,75),(1,4,5),(11,45,59)); lvl=3; h,r-ind=1,1
    [4,3]((3,12,16),(14,57,75),(2,7,9),(1,4,5)); lvl=2; h,r-ind=1,4; alert-r-inc
      [3,3]((4,16,21),(1,4,5),(14,57,75)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,16),(4,16,21),(14,57,75)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(4,16,21),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,16),(2,7,9),(4,16,21)); lvl=3; h,r-ind=1,1
    [4,3]((3,12,16),(8,33,44),(10,41,54),(14,57,75)); lvl=2; h,r-ind=1,1
      [4,3]((10,41,54),(9,37,49),(25,102,135),(13,53,70)); lvl=3; h,r-ind=1,1
        [3,3]((9,37,49),(22,90,119),(25,102,135)); lvl=4; h,r-ind=1,1
        [3,3]((13,53,70),(22,90,119),(25,102,135)); lvl=4; h,r-ind=1,1
        [3,3]((10,41,54),(13,53,70),(22,90,119)); lvl=4; h,r-ind=1,1
        [3,3]((10,41,54),(9,37,49),(22,90,119)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,16),(25,102,135),(13,53,70)); lvl=3; h,r-ind=1,1
      [3,3]((14,57,75),(10,41,54),(13,53,70)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,16),(14,57,75),(13,53,70)); lvl=3; h,r-ind=1,1
      [4,3]((3,12,16),(8,33,44),(9,37,49),(25,102,135)); lvl=3; h,r-ind=1,1
        [3,3]((12,49,65),(8,33,44),(9,37,49)); lvl=4; h,r-ind=1,1
        [3,3]((25,102,135),(12,49,65),(9,37,49)); lvl=4; h,r-ind=1,1
        [3,3]((3,12,16),(25,102,135),(12,49,65)); lvl=4; h,r-ind=1,1
        [3,3]((3,12,16),(12,49,65),(8,33,44)); lvl=4; h,r-ind=1,1
    [4,3]((8,33,44),(10,41,54),(10,42,55),(7,29,38)); lvl=2; h,r-ind=1,1
      [4,3]((10,41,54),(16,66,87),(29,120,158),(7,29,38)); lvl=3; h,r-ind=1,1
        [3,3]((16,66,87),(29,120,158),(23,95,125)); lvl=4; h,r-ind=1,1
        [3,3]((7,29,38),(29,120,158),(23,95,125)); lvl=4; h,r-ind=1,1
        [3,3]((10,41,54),(16,66,87),(23,95,125)); lvl=4; h,r-ind=1,1
        [3,3]((7,29,38),(10,41,54),(23,95,125)); lvl=4; h,r-ind=1,1
      [4,3]((10,42,55),(6,25,33),(29,120,158),(7,29,38)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((13,54,71),(6,25,33),(29,120,158)); lvl=4; h,r-ind=1,1
        [3,3]((7,29,38),(13,54,71),(29,120,158)); lvl=4; h,r-ind=1,1
        [3,3]((10,42,55),(13,54,71),(6,25,33)); lvl=4; h,r-ind=1,1
        [3,3]((7,29,38),(10,42,55),(13,54,71)); lvl=4; h,r-ind=1,1
      [3,3]((9,37,49),(10,41,54),(16,66,87)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((6,25,33),(9,37,49),(16,66,87),(29,120,158)); lvl=3; h,r-ind=1,1
        [3,3]((22,91,120),(16,66,87),(9,37,49)); lvl=4; h,r-ind=1,1
        [3,3]((6,25,33),(22,91,120),(9,37,49)); lvl=4; h,r-ind=1,1
        [3,3]((22,91,120),(29,120,158),(16,66,87)); lvl=4; h,r-ind=1,1
        [3,3]((6,25,33),(22,91,120),(29,120,158)); lvl=4; h,r-ind=1,1
      [3,3]((8,33,44),(6,25,33),(9,37,49)); lvl=3; h,r-ind=1,1
  [3,3]((4,17,23),(8,33,44),(2,9,11)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((4,17,23),(3,12,16),(8,33,44)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,4),(3,12,16),(2,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((4,17,23),(1,3,4),(3,12,16)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,17,23),(1,3,4)); lvl=1; h,r-ind=1,1
  [5,3]((1,3,4),(2,7,9),(2,4,5),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,2),(2,5,6),(4,11,13),(3,8,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,6),(4,11,13),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(4,11,13),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(1,2,2),(5,13,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(3,9,11),(4,11,13),(3,8,9)); lvl=2; h,r-ind=1,1
      [4,3]((2,6,7),(9,25,29),(3,9,11),(4,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,11,13),(9,25,29),(6,17,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(9,25,29),(6,17,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,11),(4,11,13),(6,17,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(3,9,11),(6,17,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,9),(9,25,29),(4,11,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(2,6,7),(3,8,9),(9,25,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,14,16),(9,25,29),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(5,14,16),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(1,3,3),(5,14,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(5,14,16),(9,25,29)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(3,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,9),(1,3,3),(3,9,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,4,5),(1,2,2),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(3,9,11),(2,5,6),(4,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,9,11),(4,11,13),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(4,11,13),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,9,11),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(1,3,4),(5,14,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,9),(3,9,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,5),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,3,4),(2,4,5)); lvl=1; h,r-ind=1,1
```

23.66 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,18,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,0,0),(1,4,5),(2,5,6)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,2),(1,3,3),(1,4,5),(2,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,3),(2,6,7),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(2,6,7),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(1,2,2),(2,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,4,5)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((0,1,0),(2,9,11),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,18,23),(2,9,11),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,18,23),(0,1,0),(2,9,11)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((1,2,2),(1,0,0),(2,5,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(4,15,19),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,18,23),(4,15,19),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,18,23),(1,0,0),(4,15,19)); lvl=1; h,r-ind=3,9; optimized-h
```

23.67 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,20,23)); lvl=0; h,r-ind=23,529
  [3,3]((0,1,0),(1,1,1),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((4,17,19),(2,8,9),(3,8,9),(1,1,1),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,9,10),(3,8,9),(2,8,9)); lvl=2; h,r-ind=1,1
    [4,3]((7,27,30),(3,10,11),(3,9,10),(2,8,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,18,20),(3,9,10),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((7,27,30),(5,18,20),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,20),(2,8,9),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((7,27,30),(5,18,20),(2,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((4,17,19),(7,27,30),(2,8,9)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((7,27,30),(1,3,3),(3,10,11),(1,2,2)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,3),(8,30,33),(1,2,2),(10,33,36)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,2,2),(6,21,23),(11,36,39),(10,33,36)); lvl=4; h,r-ind=1,3
          [3,3]((6,21,23),(11,36,39),(7,23,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(11,36,39),(7,23,25)); lvl=5; h,r-ind=1,1
          [3,3]((10,33,36),(6,21,23),(7,23,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(10,33,36),(7,23,25)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,12),(6,21,23),(11,36,39)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,2),(1,3,3),(3,11,12),(11,36,39)); lvl=4; h,r-ind=1,3
          [3,3]((1,3,3),(4,13,14),(3,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((11,36,39),(4,13,14),(3,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(11,36,39),(4,13,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(1,3,3),(4,13,14)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,12),(8,30,33),(6,21,23)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,11),(1,2,2),(10,33,36)); lvl=3; h,r-ind=1,1
      [4,3]((7,27,30),(3,10,11),(8,30,33),(10,33,36)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((3,10,11),(17,60,66),(6,21,23),(10,33,36)); lvl=4; h,r-ind=1,3
          [3,3]((9,31,34),(6,21,23),(17,60,66)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,11),(9,31,34),(17,60,66)); lvl=5; h,r-ind=1,1
          [3,3]((10,33,36),(9,31,34),(6,21,23)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,11),(10,33,36),(9,31,34)); lvl=5; h,r-ind=1,1
        [4,3]((5,19,21),(7,27,30),(3,10,11),(17,60,66)); lvl=4; h,r-ind=1,3
          [3,3]((8,29,32),(3,10,11),(7,27,30)); lvl=5; h,r-ind=1,1
          [3,3]((5,19,21),(8,29,32),(7,27,30)); lvl=5; h,r-ind=1,1
          [3,3]((17,60,66),(8,29,32),(3,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((5,19,21),(17,60,66),(8,29,32)); lvl=5; h,r-ind=1,1
        [3,3]((5,19,21),(17,60,66),(6,21,23)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((8,30,33),(5,19,21),(6,21,23)); lvl=4; h,r-ind=1,1
    [3,3]((4,17,19),(7,27,30),(1,3,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,9,10),(3,8,9),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((3,10,11),(3,9,10),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(3,9,10),(4,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,11),(3,9,10),(4,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,10,11),(4,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(4,11,12)); lvl=3; h,r-ind=1,1
  [4,3]((2,8,9),(2,7,8),(5,21,24),(3,8,9)); lvl=1; h,r-ind=1,1
    [3,3]((5,21,24),(4,15,17),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(4,15,17),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,9),(3,8,9),(4,15,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,9),(5,21,24),(4,15,17)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,7,8),(3,8,9)); lvl=1; h,r-ind=1,1
  [3,3]((4,20,23),(2,7,8),(5,21,24)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,20,23),(2,7,8)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,8,9),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((2,10,11),(4,17,19),(0,1,0),(1,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((2,9,10),(4,16,17),(1,4,4),(2,9,9)); lvl=2; h,r-ind=1,1
      [3,3]((4,16,17),(3,13,14),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,9),(3,13,14),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(2,9,9),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(4,16,17),(3,13,14)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,10,11),(2,9,10),(1,5,5),(2,9,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,14,15),(2,9,9),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,11),(3,14,15),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,15),(1,5,5),(2,9,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,11),(3,14,15),(1,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,5),(2,9,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,10,11),(0,1,0),(1,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,16,17),(1,3,3),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,10),(4,16,17),(4,17,19),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(4,16,17),(3,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(4,16,17),(3,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(4,17,19),(3,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,17,19),(1,3,3),(3,12,13)); lvl=3; h,r-ind=1,1
  [5,3]((4,20,23),(6,29,33),(4,17,19),(2,8,9),(5,21,24)); lvl=1; h,r-ind=1,1
    [3,3]((3,14,16),(4,17,19),(2,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((5,21,24),(3,14,16),(2,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,20,23),(5,21,24),(3,14,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,14,16),(5,23,26),(4,17,19)); lvl=2; h,r-ind=1,1
    [3,3]((6,29,33),(3,14,16),(5,23,26)); lvl=2; h,r-ind=1,1
    [3,3]((6,29,33),(4,20,23),(3,14,16)); lvl=2; h,r-ind=1,1
  [3,3]((2,10,11),(3,15,17),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,20,23),(3,15,17),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,10,11),(6,29,33),(3,15,17),(4,17,19)); lvl=1; h,r-ind=1,1
    [4,3]((3,15,17),(6,29,33),(8,38,43),(13,62,70)); lvl=2; h,r-ind=1,1
      [3,3]((6,29,33),(11,53,60),(8,38,43)); lvl=3; h,r-ind=1,1
      [3,3]((13,62,70),(11,53,60),(8,38,43)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,17),(13,62,70),(11,53,60)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,17),(6,29,33),(11,53,60)); lvl=3; h,r-ind=1,1
```

```
    [4,3]((2,9,10),(5,23,26),(8,38,43),(13,62,70)); lvl=2; h,r-ind=1,1
      [3,3]((5,23,26),(10,47,53),(8,38,43)); lvl=3; h,r-ind=1,1
      [3,3]((13,62,70),(10,47,53),(8,38,43)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(13,62,70),(10,47,53)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(5,23,26),(10,47,53)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,10),(4,17,19),(5,23,26)); lvl=2; h,r-ind=1,1
    [4,3]((2,10,11),(2,9,10),(3,15,17),(13,62,70)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((5,24,27),(2,9,10),(13,62,70)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,17),(5,24,27),(13,62,70)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,11),(5,24,27),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,17),(2,10,11),(5,24,27)); lvl=3; h,r-ind=1,1
    [3,3]((5,23,26),(6,29,33),(8,38,43)); lvl=2; h,r-ind=1,1
  [3,3]((4,20,23),(6,29,33),(3,15,17)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

23.68 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,22,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,3,3),(0,1,0),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((4,22,23),(1,3,3),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(4,22,23),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,5),(1,3,3),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,11,11),(1,5,5),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,22,23),(2,11,11),(0,1,0)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((4,22,23),(2,11,11),(1,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,22,23),(1,5,5),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
```

23.69 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,5,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,0,0),(1,1,4),(3,3,13)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,4),(3,3,13)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,9),(0,1,0),(3,3,13)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,23),(2,2,9),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,9),(1,0,0),(3,3,13)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,23),(2,2,9),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,5),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(2,2,5),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,2,5)); lvl=1; h,r-ind=5,25; optimized-h
```

23.70 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,7,23)); lvl=0; h,r-ind=23,529
  [4,3]((0,1,0),(2,3,5),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,5),(2,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,3,3),(1,1,1),(1,1,2),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(1,1,2),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(2,3,4),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(2,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,3),(4,5,16),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,13),(4,5,16),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,7,23),(3,4,13),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((1,1,3),(3,4,11),(2,3,7),(2,3,5),(1,1,2)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,3),(3,4,10),(3,4,9),(5,6,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,12),(3,4,9),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,12),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,14),(4,5,12),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(5,6,14),(4,5,12)); lvl=3; h,r-ind=1,1
    [5,3]((1,1,2),(2,3,5),(2,3,6),(3,4,9),(5,6,14)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,8),(2,3,6),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,8),(2,3,5)); lvl=3; h,r-ind=1,1
      [4,3]((7,9,19),(3,4,8),(6,8,17),(2,3,6)); lvl=3; h,r-ind=1,1
```

```
        [3,3]((3,4,8),(2,3,6),(9,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,17),(2,3,6),(9,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,19),(3,4,8),(9,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,17),(7,9,19),(9,12,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(7,9,19),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,17),(2,3,6),(3,4,9)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,11),(7,9,19),(6,8,17),(3,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((6,8,17),(7,9,19),(10,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,11),(7,9,19),(10,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(4,5,11),(10,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(6,8,17),(10,13,28)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,11),(5,6,14),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,11),(5,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,11),(7,9,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(1,1,2),(5,6,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,11),(3,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,11),(3,4,10)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,6),(2,3,7),(3,4,10),(3,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,16),(3,4,10),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(5,7,16),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(2,3,6),(5,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(5,7,16),(3,4,10)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,3),(3,4,12),(3,4,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,3),(3,4,12),(4,5,16)); lvl=1; h,r-ind=1,1
  [4,3]((5,7,22),(3,4,13),(3,4,12),(4,5,16)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,13),(4,5,16),(6,8,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(4,5,16),(6,8,25)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,22),(3,4,13),(6,8,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(5,7,22),(6,8,25)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,23),(5,7,22),(3,4,13)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,4),(2,3,7),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,13),(0,1,0),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,9),(3,5,13),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,7,23),(2,3,9),(0,1,0)); lvl=1; h,r-ind=1,1
  [6,3]((3,4,12),(3,5,13),(4,6,17),(3,4,11),(1,2,4),(2,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,8),(3,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,17),(2,3,8),(3,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(4,6,17),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,8),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,11),(2,3,8),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(3,4,11),(2,3,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,9),(3,5,13),(4,6,17)); lvl=1; h,r-ind=1,1
  [4,3]((5,7,22),(2,3,9),(3,4,12),(4,6,17)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,9),(4,6,17),(5,7,21)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(4,6,17),(5,7,21)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,22),(2,3,9),(5,7,21)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(5,7,22),(5,7,21)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,23),(5,7,22),(2,3,9)); lvl=1; h,r-ind=1,1
```

23.71 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,10,23)); lvl=0; h,r-ind=23,529
  [5,3]((1,1,2),(2,3,6),(2,2,3),(2,4,5),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(5,8,12),(6,9,14),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,3),(7,11,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(5,7,11),(6,9,14),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,7,11),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,1,2),(7,10,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(3,5,7),(1,2,3),(5,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
    [6,3]((5,7,11),(3,4,6),(2,3,4),(3,5,7),(5,8,12),(6,9,14)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,7),(4,6,9),(2,3,4)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((3,4,6),(4,6,9),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(4,6,9),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(4,6,9),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(4,6,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(5,7,11),(3,4,6),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,8),(5,7,11),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,2,3),(4,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,5,8),(5,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(2,3,4),(3,5,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((3,6,13),(2,3,6),(4,7,15),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((7,12,25),(2,3,6),(4,7,15)); lvl=2; h,r-ind=1,1
    [4,3]((3,6,13),(1,2,4),(7,12,25),(4,7,15)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,4),(7,12,25),(5,9,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,15),(7,12,25),(5,9,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,13),(4,7,15),(5,9,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,13),(1,2,4),(5,9,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(7,12,25),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(2,3,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,6,13),(1,2,3)); lvl=1; h,r-ind=4,4; optimized-h
  [4,3]((1,1,2),(2,3,6),(4,7,15),(3,5,11)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,6),(4,7,15),(5,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(4,7,15),(5,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(5,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(1,1,2),(5,8,17)); lvl=2; h,r-ind=1,1
  [4,3]((2,4,9),(3,6,13),(4,7,15),(3,5,11)); lvl=1; h,r-ind=1,1
    [3,3]((6,11,24),(3,6,13),(4,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(6,11,24),(4,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(3,5,11),(6,11,24)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(6,11,24),(3,6,13)); lvl=2; h,r-ind=1,1
  [3,3]((5,10,23),(2,4,9),(6,11,25)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,9),(3,6,13)); lvl=1; h,r-ind=1,1
  [3,3]((5,10,23),(0,1,0),(2,4,9)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(3,4,9),(1,1,2),(3,5,11)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,9),(3,5,11),(4,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,5,11),(4,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(4,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,4,9),(4,5,11)); lvl=2; h,r-ind=1,1
  [4,3]((2,4,9),(6,11,25),(3,4,9),(3,5,11)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,18),(3,4,9),(6,11,25)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(5,8,18),(6,11,25)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(3,5,11),(5,8,18)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,11),(5,8,18),(3,4,9)); lvl=2; h,r-ind=1,1
  [4,3]((5,10,23),(1,0,0),(6,11,25),(3,4,9)); lvl=1; h,r-ind=1,2
    [3,3]((1,0,0),(4,7,16),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,25),(4,7,16),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,23),(6,11,25),(4,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,23),(1,0,0),(4,7,16)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,4),(1,1,1),(2,3,3),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(2,3,4),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
```

23.72 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,11,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,2,3),(2,3,6),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,11,23),(2,3,6),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,7,13),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,13),(4,9,18),(1,2,4)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((5,11,23),(4,9,18),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,7,13),(4,9,18)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((5,11,23),(0,1,0),(4,9,18)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,1,2),(2,2,3),(2,4,5),(1,2,3),(2,3,6)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,5),(3,5,7),(5,8,12),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((6,9,14),(2,3,5),(5,8,12),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(1,2,3),(7,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(5,7,11),(6,9,14),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,7,11),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,1,2),(7,10,16)); lvl=3; h,r-ind=1,1
    [6,3]((5,7,11),(3,4,6),(6,9,14),(2,3,4),(3,5,7),(5,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,6,9),(3,5,7),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(6,9,14),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,6,9),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(4,6,9),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(1,1,2),(5,7,11),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,8),(5,7,11),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(3,4,6),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(2,3,4),(3,5,7)); lvl=2; h,r-ind=1,1
  [3,3]((5,11,23),(1,1,2),(2,3,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(5,11,23),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(0,1,0),(2,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(1,2,2),(2,3,3),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,6),(2,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,5,6),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,4,5),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,6),(2,3,3)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,3),(2,3,4),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=1; h,r-ind=1,1
```

23.73 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,14,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,0,0),(5,13,21),(4,11,18)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((4,11,17),(6,17,27),(5,13,21),(4,11,18)); lvl=1; h,r-ind=1,1
    [4,3]((3,8,13),(5,14,22),(6,17,27),(4,11,18)); lvl=2; h,r-ind=1,1
      [3,3]((9,25,40),(6,17,27),(5,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,13),(9,25,40),(5,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,18),(3,8,13),(9,25,40)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,18),(9,25,40),(6,17,27)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,17),(3,8,13),(5,14,22)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,17),(5,13,21),(3,8,13)); lvl=2; h,r-ind=1,1
  [3,3]((5,14,23),(6,17,27),(4,11,18)); lvl=1; h,r-ind=1,1
  [3,3]((5,14,23),(1,0,0),(4,11,18)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(1,0,0),(5,13,21)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,2,3),(2,5,7),(4,11,17),(5,13,21)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,8),(4,11,17),(3,8,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,8),(2,5,7),(3,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,8),(3,8,12),(4,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(3,8,12),(4,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,8),(4,10,15)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,5,7),(1,2,3),(4,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((5,13,21),(2,5,8),(4,11,17)); lvl=2; h,r-ind=1,1
  [4,3]((4,11,17),(3,9,13),(2,6,9),(6,17,27)); lvl=1; h,r-ind=1,1
    [3,3]((3,9,13),(8,23,35),(2,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((6,17,27),(5,14,22),(8,23,35),(2,6,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,20,31),(5,14,22),(8,23,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,9),(7,20,31),(8,23,35)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,27),(7,20,31),(5,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,9),(6,17,27),(7,20,31)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,17),(5,14,22),(8,23,35)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,11,17),(3,9,13),(8,23,35)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((5,14,23),(2,6,9),(6,17,27)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,9,13),(2,6,9)); lvl=1; h,r-ind=1,1
  [3,3]((5,14,23),(0,1,0),(2,6,9)); lvl=1; h,r-ind=1,1
  [5,3]((0,1,0),(2,5,7),(2,5,5),(4,11,17),(3,9,13)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,7),(0,1,0),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,13),(0,1,0),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,17),(3,9,13),(1,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,7),(2,5,6),(2,6,7),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,6),(2,6,7),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,7),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(1,3,4),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(2,5,6),(3,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,12),(2,5,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,12),(4,11,17),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(1,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(1,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,5),(2,5,6),(2,6,7),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,9),(2,5,6),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(1,3,3),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(3,8,9),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(3,8,9),(2,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,3),(2,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,4),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,2,3),(2,5,7),(2,5,5),(2,3,4),(1,2,2)); lvl=1; h,r-ind=1,1
    [6,3]((3,7,9),(5,11,14),(6,13,16),(2,5,6),(3,7,8),(5,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,11),(5,11,13),(6,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(4,9,11),(6,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(5,11,14),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(4,9,11),(5,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,7,8),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,5,6),(4,9,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(2,5,5),(3,7,8),(5,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,8),(2,5,5),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(1,2,2),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(3,7,8),(4,9,10)); lvl=3; h,r-ind=1,1
    [4,3]((6,13,16),(2,4,5),(1,2,2),(5,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((7,15,18),(1,2,2),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,16),(7,15,18),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(6,13,16),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(7,15,18),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(2,3,4),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(5,11,14),(6,13,16),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,14),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,14),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(7,15,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,7),(3,7,9),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,7),(3,7,9),(5,11,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(1,2,3),(4,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,5),(2,5,6),(3,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
```

23.74 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,15,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,0,0),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [5,3]((2,5,7),(1,2,2),(2,5,5),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,9),(2,5,7),(2,5,6)); lvl=2; h,r-ind=1,1
    [6,3]((3,7,8),(5,11,13),(6,13,16),(5,11,14),(3,7,9),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,11),(5,11,14),(3,7,9)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((4,9,11),(2,5,6),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(4,9,11),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(3,7,8),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,11),(6,13,16),(5,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(4,9,11),(6,13,16)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,8),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(3,7,8),(5,11,13),(2,5,5)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,10),(5,11,13),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(4,9,10),(3,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,9,10),(5,11,13)); lvl=3; h,r-ind=1,1
    [4,3]((5,11,14),(3,7,9),(1,2,3),(2,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,9),(2,5,7),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(3,7,9),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,14),(4,9,12)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,5),(6,13,16),(5,11,14),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,14),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,14),(7,15,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,4),(2,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(5,11,13),(2,4,5),(6,13,16)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,13),(6,13,16),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,16),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,11,13),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(7,15,18)); lvl=3; h,r-ind=1,1
  [4,3]((3,8,12),(4,11,16),(2,5,7),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((4,11,16),(2,5,7),(5,13,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(5,13,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,12),(4,11,16),(5,13,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,8,12),(5,13,19)); lvl=2; h,r-ind=1,1
  [3,3]((5,15,23),(3,8,12),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((2,6,9),(3,8,12),(4,11,16),(3,9,13)); lvl=1; h,r-ind=1,1
    [3,3]((4,11,16),(3,8,12),(6,17,25)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(3,8,12),(6,17,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,13),(2,6,9),(6,17,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,13),(4,11,16),(6,17,25)); lvl=2; h,r-ind=1,1
  [3,3]((5,15,23),(2,6,9),(3,8,12)); lvl=1; h,r-ind=1,1
  [5,3]((4,11,16),(3,9,13),(0,1,0),(2,5,7),(2,5,5)); lvl=1; h,r-ind=1,2
    [4,3]((2,5,6),(2,6,7),(2,5,5),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,9),(1,3,3),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,8,9),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(2,5,6),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(3,8,9),(1,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,5),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,6,7),(1,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,7),(2,5,6),(2,6,7),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,6),(2,6,7),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,7),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(1,3,4),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(2,5,6),(3,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,16),(2,5,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,13),(4,11,16),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,6,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,13),(0,1,0),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,6,9),(3,9,13),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,15,23),(2,6,9),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,15,23),(1,0,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(1,0,0),(2,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
```

23.75 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,17,23)); lvl=0; h,r-ind=23,529
  [3,3]((2,4,5),(1,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,17,23),(1,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(2,4,5),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((2,5,5),(1,2,2),(2,4,5),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,4,5),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(1,2,2),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,3,4)); lvl=1; h,r-ind=3,9; optimized-h
```

```
  [3,3]((0,1,0),(3,10,13),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,17,23),(3,10,13),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,10,13),(2,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((5,17,23),(3,10,13),(2,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((5,17,23),(0,1,0),(2,7,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
```

23.76 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,19,23)); lvl=0; h,r-ind=23,529
  [5,3]((2,6,7),(4,13,15),(3,6,7),(2,5,5),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(3,9,10),(2,5,5)); lvl=2; h,r-ind=1,1
    [5,3]((12,35,40),(1,2,2),(3,8,9),(3,9,10),(7,21,24)); lvl=2; h,r-ind=1,1
      [4,3]((5,15,17),(8,23,26),(10,29,33),(7,21,24)); lvl=3; h,r-ind=1,1
        [3,3]((8,23,26),(10,29,33),(15,44,50)); lvl=4; h,r-ind=1,1
        [3,3]((7,21,24),(10,29,33),(15,44,50)); lvl=4; h,r-ind=1,1
        [3,3]((5,15,17),(8,23,26),(15,44,50)); lvl=4; h,r-ind=1,1
        [3,3]((7,21,24),(5,15,17),(15,44,50)); lvl=4; h,r-ind=1,1
      [3,3]((12,35,40),(10,29,33),(7,21,24)); lvl=3; h,r-ind=1,1
      [5,3]((1,2,2),(3,9,10),(5,15,17),(8,23,26),(12,33,37)); lvl=3; h,r-ind=1,1
        [3,3]((6,17,19),(5,15,17),(3,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(6,17,19),(3,9,10)); lvl=4; h,r-ind=1,1
        [4,3]((15,42,47),(14,40,45),(6,17,19),(5,15,17)); lvl=4; h,r-ind=1,1
          [3,3]((14,40,45),(5,15,17),(20,57,64)); lvl=5; h,r-ind=1,1
          [3,3]((6,17,19),(5,15,17),(20,57,64)); lvl=5; h,r-ind=1,1
          [3,3]((15,42,47),(14,40,45),(20,57,64)); lvl=5; h,r-ind=1,1
          [3,3]((6,17,19),(15,42,47),(20,57,64)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(15,42,47),(6,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((14,40,45),(5,15,17),(8,23,26)); lvl=4; h,r-ind=1,1
        [4,3]((9,25,28),(15,42,47),(14,40,45),(8,23,26)); lvl=4; h,r-ind=1,1
          [3,3]((23,65,73),(14,40,45),(15,42,47)); lvl=5; h,r-ind=1,1
          [3,3]((9,25,28),(23,65,73),(15,42,47)); lvl=5; h,r-ind=1,1
          [3,3]((8,23,26),(9,25,28),(23,65,73)); lvl=5; h,r-ind=1,1
          [3,3]((8,23,26),(23,65,73),(14,40,45)); lvl=5; h,r-ind=1,1
        [3,3]((9,25,28),(12,33,37),(8,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(9,25,28),(12,33,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(9,25,28),(15,42,47)); lvl=4; h,r-ind=1,1
      [4,3]((3,8,9),(8,23,26),(10,29,33),(12,33,37)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((10,29,33),(8,23,26),(11,31,35)); lvl=4; h,r-ind=1,1
        [3,3]((12,33,37),(8,23,26),(11,31,35)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(12,33,37),(11,31,35)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(10,29,33),(11,31,35)); lvl=4; h,r-ind=1,1
      [3,3]((12,35,40),(3,8,9),(10,29,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,8,9),(12,33,37)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,8),(1,2,2),(3,8,9),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,10),(1,2,2),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(4,9,10),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,7,8),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(4,9,10),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,7),(3,7,8),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,7),(3,6,7),(3,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,7),(12,35,40),(3,7,8),(3,8,9)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((12,35,40),(3,8,9),(5,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(3,8,9),(5,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,7,8),(5,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(12,35,40),(5,14,16)); lvl=3; h,r-ind=1,1
    [4,3]((4,13,15),(2,6,7),(12,35,40),(7,21,24)); lvl=2; h,r-ind=1,1
      [3,3]((2,6,7),(9,27,31),(12,35,40)); lvl=3; h,r-ind=1,1
      [3,3]((7,21,24),(9,27,31),(12,35,40)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,15),(7,21,24),(9,27,31)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,15),(2,6,7),(9,27,31)); lvl=3; h,r-ind=1,1
    [3,3]((4,13,15),(3,9,10),(7,21,24)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,6,7),(1,1,1)); lvl=1; h,r-ind=1,1
  [5,3]((3,10,12),(5,17,20),(2,6,7),(2,5,6),(3,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,7),(4,11,13),(3,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(4,11,13),(3,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((9,27,32),(7,21,25),(2,5,6),(4,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((11,32,38),(2,5,6),(7,21,25)); lvl=3; h,r-ind=1,1
      [3,3]((9,27,32),(11,32,38),(7,21,25)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,13),(9,27,32),(11,32,38)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,13),(11,32,38),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,12),(7,21,25),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((9,27,32),(7,22,26),(2,6,7),(4,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((11,33,39),(2,6,7),(7,22,26)); lvl=3; h,r-ind=1,1
      [3,3]((9,27,32),(11,33,39),(7,22,26)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((4,11,13),(9,27,32),(11,33,39)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,13),(11,33,39),(2,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((3,10,12),(9,27,32),(7,22,26),(7,21,25)); lvl=2; h,r-ind=1,1
      [4,3]((5,16,19),(21,64,76),(9,27,32),(7,22,26)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((14,43,51),(21,64,76),(9,27,32)); lvl=4; h,r-ind=1,1
        [3,3]((7,22,26),(14,43,51),(9,27,32)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,19),(7,22,26),(14,43,51)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,19),(14,43,51),(21,64,76)); lvl=4; h,r-ind=1,1
      [3,3]((7,21,25),(21,64,76),(9,27,32)); lvl=3; h,r-ind=1,1
      [4,3]((5,16,19),(3,10,12),(7,21,25),(21,64,76)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,12),(12,37,44),(7,21,25)); lvl=4; h,r-ind=1,1
        [3,3]((21,64,76),(12,37,44),(7,21,25)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,19),(21,64,76),(12,37,44)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,19),(3,10,12),(12,37,44)); lvl=4; h,r-ind=1,1
    [3,3]((5,17,20),(7,22,26),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,12),(5,17,20),(7,22,26)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((5,19,23),(3,10,12),(2,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(5,19,23),(2,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,5,6),(3,6,7)); lvl=1; h,r-ind=1,1
  [6,3]((5,18,21),(4,13,15),(7,24,28),(0,1,0),(3,12,13),(2,5,5)); lvl=1; h,r-ind=1,1
    [4,3]((2,7,8),(3,10,11),(4,13,15),(3,9,10)); lvl=2; h,r-ind=1,1
      [3,3]((3,9,10),(3,10,11),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,10,11),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(4,13,15),(5,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,15),(3,9,10),(5,16,18)); lvl=3; h,r-ind=1,1
    [4,3]((3,10,11),(1,3,3),(2,5,5),(3,9,10)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,5),(4,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,10),(2,5,5),(4,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,11),(1,3,3),(4,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,10),(3,10,11),(4,12,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(0,1,0),(2,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,8),(3,10,11),(3,11,12),(4,14,15)); lvl=2; h,r-ind=1,1
      [3,3]((4,14,15),(3,10,11),(6,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,10,11),(6,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,12),(2,7,8),(6,21,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,12),(4,14,15),(6,21,23)); lvl=3; h,r-ind=1,1
    [4,3]((5,18,21),(4,15,17),(2,7,8),(3,11,12)); lvl=2; h,r-ind=1,1
      [3,3]((6,22,25),(4,15,17),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(6,22,25),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,21),(2,7,8),(6,22,25)); lvl=3; h,r-ind=1,1
      [3,3]((5,18,21),(6,22,25),(4,15,17)); lvl=3; h,r-ind=1,1
    [4,3]((3,10,11),(1,3,3),(4,14,15),(2,7,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,7),(4,14,15),(5,17,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,11),(4,14,15),(5,17,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,10,11),(5,17,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(5,17,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,4),(3,11,12),(4,14,15),(2,7,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,12),(4,14,15),(5,18,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,7),(4,14,15),(5,18,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(3,11,12),(5,18,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,7),(1,4,4),(5,18,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(2,7,7),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,7,7),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((3,12,13),(1,4,4),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((3,12,13),(4,15,17),(1,4,4),(3,11,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,15,17),(5,19,21),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(5,19,21),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,13),(1,4,4),(5,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,13),(4,15,17),(5,19,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,8),(7,24,28),(4,13,15)); lvl=2; h,r-ind=1,1
    [3,3]((5,18,21),(2,7,8),(7,24,28)); lvl=2; h,r-ind=1,1
  [3,3]((2,8,9),(0,1,0),(3,12,13)); lvl=1; h,r-ind=1,1
  [3,3]((5,19,23),(2,8,9),(0,1,0)); lvl=1; h,r-ind=1,1
  [5,3]((2,8,9),(6,23,27),(3,11,13),(5,18,21),(3,12,13)); lvl=1; h,r-ind=1,1
    [4,3]((3,11,13),(5,19,22),(12,45,52),(14,53,61)); lvl=2; h,r-ind=1,1
      [3,3]((17,64,74),(14,53,61),(5,19,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,13),(17,64,74),(5,19,22)); lvl=3; h,r-ind=1,1
      [3,3]((12,45,52),(17,64,74),(14,53,61)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,13),(12,45,52),(17,64,74)); lvl=3; h,r-ind=1,1
    [6,3]((11,42,48),(4,15,17),(6,23,26),(7,26,30),(12,45,52),(14,53,61)); lvl=2; h,r-ind=1,1
      [3,3]((9,34,39),(12,45,52),(14,53,61)); lvl=3; h,r-ind=1,1
      [3,3]((11,42,48),(9,34,39),(14,53,61)); lvl=3; h,r-ind=1,1
      [3,3]((11,42,48),(6,23,26),(9,34,39)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,17),(6,23,26),(9,34,39)); lvl=3; h,r-ind=1,1
      [3,3]((7,26,30),(9,34,39),(12,45,52)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,17),(7,26,30),(9,34,39)); lvl=3; h,r-ind=1,1
    [4,3]((2,8,9),(3,12,13),(11,42,48),(6,23,26)); lvl=2; h,r-ind=1,1
      [3,3]((3,12,13),(6,23,26),(8,31,35)); lvl=3; h,r-ind=1,1
      [3,3]((11,42,48),(6,23,26),(8,31,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(11,42,48),(8,31,35)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,8,9),(3,12,13),(8,31,35)); lvl=3; h,r-ind=1,1
    [3,3]((3,12,13),(4,15,17),(6,23,26)); lvl=2; h,r-ind=1,1
    [4,3]((3,11,13),(7,26,30),(5,18,21),(12,45,52)); lvl=2; h,r-ind=1,1
      [3,3]((10,37,43),(7,26,30),(5,18,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,13),(10,37,43),(5,18,21)); lvl=3; h,r-ind=1,1
      [3,3]((12,45,52),(10,37,43),(7,26,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,13),(12,45,52),(10,37,43)); lvl=3; h,r-ind=1,1
    [3,3]((4,15,17),(7,26,30),(5,18,21)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,9),(11,42,48),(5,19,22),(14,53,61)); lvl=2; h,r-ind=1,1
      [3,3]((16,61,70),(14,53,61),(11,42,48)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(16,61,70),(11,42,48)); lvl=3; h,r-ind=1,1
      [3,3]((5,19,22),(16,61,70),(14,53,61)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(5,19,22),(16,61,70)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,13),(6,23,27),(5,19,22)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,9),(6,23,27),(5,19,22)); lvl=2; h,r-ind=1,1
  [3,3]((5,19,23),(2,8,9),(6,23,27)); lvl=1; h,r-ind=1,1
  [3,3]((5,19,23),(6,23,27),(3,11,13)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((5,17,20),(3,11,13),(5,18,21),(7,24,28)); lvl=1; h,r-ind=1,1
    [3,3]((3,11,13),(5,18,21),(10,35,41)); lvl=2; h,r-ind=1,1
    [3,3]((7,24,28),(5,18,21),(10,35,41)); lvl=2; h,r-ind=1,1
    [3,3]((5,17,20),(7,24,28),(10,35,41)); lvl=2; h,r-ind=1,1
    [3,3]((5,17,20),(3,11,13),(10,35,41)); lvl=2; h,r-ind=1,1
  [4,3]((5,17,20),(2,6,7),(4,13,15),(7,24,28)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,7),(4,13,15),(9,30,35)); lvl=2; h,r-ind=1,1
    [3,3]((7,24,28),(4,13,15),(9,30,35)); lvl=2; h,r-ind=1,1
    [3,3]((5,17,20),(7,24,28),(9,30,35)); lvl=2; h,r-ind=1,1
    [3,3]((5,17,20),(2,6,7),(9,30,35)); lvl=2; h,r-ind=1,1
  [4,3]((5,19,23),(3,10,12),(5,17,20),(3,11,13)); lvl=1; h,r-ind=1,1
    [3,3]((3,10,12),(5,17,20),(6,21,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,13),(5,17,20),(6,21,25)); lvl=2; h,r-ind=1,1
    [4,3]((4,15,18),(13,46,55),(3,11,13),(6,21,25)); lvl=2; h,r-ind=1,1
      [3,3]((13,46,55),(10,36,43),(6,21,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,13),(10,36,43),(6,21,25)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,18),(3,11,13),(10,36,43)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,18),(13,46,55),(10,36,43)); lvl=3; h,r-ind=1,1
    [3,3]((13,46,55),(3,10,12),(6,21,25)); lvl=2; h,r-ind=1,1
    [4,3]((5,19,23),(4,15,18),(13,46,55),(3,10,12)); lvl=2; h,r-ind=1,1
      [3,3]((7,25,30),(4,15,18),(13,46,55)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(7,25,30),(13,46,55)); lvl=3; h,r-ind=1,1
      [3,3]((5,19,23),(7,25,30),(4,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,12),(5,19,23),(7,25,30)); lvl=3; h,r-ind=1,1
```

23.77 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,20,23)); lvl=0; h,r-ind=23,529
  [4,3]((3,8,9),(1,1,1),(2,5,5),(3,10,11)); lvl=1; h,r-ind=1,1
    [3,3]((3,10,11),(2,5,5),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,11),(3,9,10),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((3,9,10),(3,8,9),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((4,10,11),(1,1,1),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,10),(4,10,11),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,9,10),(4,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(4,10,11),(1,1,1)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(3,12,13),(2,5,5),(3,10,11)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,3),(2,7,7),(3,10,11),(3,11,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,14,15),(3,11,12),(2,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(4,14,15),(2,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,10,11),(4,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,11),(4,14,15),(3,11,12)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,7),(1,4,4),(3,12,13),(3,11,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,15,16),(1,4,4),(3,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,12),(4,15,16),(3,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,7),(4,15,16),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,12),(2,7,7),(4,15,16)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(3,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,7),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(1,3,3),(3,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,5),(1,3,3)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,8),(4,15,17),(3,8,9),(3,10,11)); lvl=1; h,r-ind=1,1
    [3,3]((3,10,11),(3,9,10),(7,24,27)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,7,8),(3,8,9),(3,9,10),(7,24,27)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,16,18),(3,9,10),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(5,16,18),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,18),(7,24,27),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(5,16,18),(7,24,27)); lvl=3; h,r-ind=1,1
    [3,3]((4,15,17),(3,10,11),(7,24,27)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
```

```
    [3,3]((2,7,8),(4,15,17),(7,24,27)); lvl=2; h,r-ind=1,1
  [4,3]((2,8,9),(3,12,13),(4,15,17),(3,10,11)); lvl=1; h,r-ind=1,1
    [4,3]((2,8,9),(7,26,29),(3,12,13),(3,11,12)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,19,21),(3,11,12),(7,26,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(5,19,21),(7,26,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,13),(5,19,21),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(3,12,13),(5,19,21)); lvl=3; h,r-ind=1,1
    [3,3]((7,26,29),(3,10,11),(3,11,12)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((7,26,29),(4,15,17),(3,10,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,8,9),(7,26,29),(4,15,17)); lvl=2; h,r-ind=1,1
  [3,3]((5,20,23),(2,8,9),(4,15,17)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,8,9),(3,12,13)); lvl=1; h,r-ind=1,1
  [3,3]((5,20,23),(0,1,0),(2,8,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,7,8),(3,8,9)); lvl=1; h,r-ind=1,1
  [3,3]((5,20,23),(2,7,8),(4,15,17)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(5,20,23),(2,7,8)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,8,9),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

23.78 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,22,23)); lvl=0; h,r-ind=23,529
  [3,3]((0,1,0),(3,13,13),(1,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((5,22,23),(3,13,13),(1,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,5),(0,1,0),(1,4,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,22,23),(2,5,5),(1,4,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,5,5),(1,1,1),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,22,23),(2,5,5),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(5,22,23),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,9,9),(0,1,0),(3,13,13)); lvl=1; h,r-ind=1,1
  [3,3]((5,22,23),(2,9,9),(3,13,13)); lvl=1; h,r-ind=1,1
  [3,3]((5,22,23),(2,9,9),(0,1,0)); lvl=1; h,r-ind=1,1
```

23.79 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,7,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,1,3),(5,5,16),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,4,13),(5,5,16),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,7,23),(4,4,13),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,4,13),(5,5,16)); lvl=1; h,r-ind=1,1
  [3,3]((7,7,23),(0,1,0),(4,4,13)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(1,1,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(1,0,0)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((0,1,0),(1,1,2),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,3),(5,5,16)); lvl=1; h,r-ind=1,1
```

23.80 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,10,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,2),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,1),(2,2,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,9),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,7,16),(3,4,9),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,10,23),(5,7,16),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,5),(1,2,2),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(1,1,2),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,5),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,6),(2,3,5),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,9),(2,3,6),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((5,7,16),(3,4,9),(9,13,29),(2,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((7,10,22),(2,3,6),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,16),(7,10,22),(3,4,9)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((5,7,16),(9,13,29),(7,10,22)); lvl=2; h,r-ind=1,1
    [3,3]((9,13,29),(7,10,22),(2,3,6)); lvl=2; h,r-ind=1,1
  [4,3]((9,13,29),(5,8,16),(4,6,13),(2,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,13),(5,8,16),(6,9,19)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(5,8,16),(6,9,19)); lvl=2; h,r-ind=1,1
    [3,3]((9,13,29),(4,6,13),(6,9,19)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(9,13,29),(6,9,19)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(5,8,16),(4,6,13)); lvl=1; h,r-ind=1,1
  [3,3]((7,10,23),(9,13,29),(4,6,13)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(7,10,23),(4,6,13)); lvl=1; h,r-ind=1,1
  [3,3]((7,10,23),(5,7,16),(9,13,29)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,6),(2,3,5),(1,2,2)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(2,3,6),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,8),(2,3,6),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,8),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,8),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,2),(1,2,3),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(5,8,16),(2,3,6)); lvl=1; h,r-ind=2,2; optimized-h
```

23.81 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,15,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,2,2),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,15,23),(1,0,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,11,16),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,15,23),(5,11,16),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,15,23),(0,1,0),(5,11,16)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((1,0,0),(1,2,2),(2,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

23.82 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,19,23)); lvl=0; h,r-ind=23,529
  [3,3]((3,7,8),(3,8,9),(2,5,6)); lvl=1; h,r-ind=1,1
  [4,3]((7,19,22),(6,16,19),(3,8,9),(2,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(6,16,19),(9,24,28)); lvl=2; h,r-ind=1,1
    [3,3]((7,19,22),(6,16,19),(9,24,28)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(7,19,22),(9,24,28)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(2,5,6),(9,24,28)); lvl=2; h,r-ind=1,1
  [3,3]((7,19,23),(6,16,19),(2,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(7,19,23),(2,5,6)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,3),(5,14,16),(7,19,22),(3,8,9)); lvl=1; h,r-ind=1,1
    [3,3]((5,14,16),(7,19,22),(8,22,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(7,19,22),(8,22,25)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(3,8,9),(8,22,25)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(5,14,16),(8,22,25)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(5,14,16)); lvl=1; h,r-ind=1,1
  [4,3]((5,14,16),(7,19,22),(6,16,19),(4,11,13)); lvl=1; h,r-ind=1,1
    [3,3]((11,30,35),(6,16,19),(7,19,22)); lvl=2; h,r-ind=1,1
    [3,3]((5,14,16),(11,30,35),(7,19,22)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,13),(5,14,16),(11,30,35)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,13),(11,30,35),(6,16,19)); lvl=2; h,r-ind=1,1
  [3,3]((7,19,23),(6,16,19),(4,11,13)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,14,16),(4,11,13)); lvl=1; h,r-ind=1,1
  [3,3]((7,19,23),(0,1,0),(4,11,13)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,7),(3,7,8),(2,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,6,7),(2,5,6)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,3),(1,2,2),(3,7,8),(3,8,9)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(3,7,8),(4,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(3,7,8),(4,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(3,8,9),(4,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(1,2,2),(4,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,1),(3,6,7),(1,2,2),(3,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((3,6,7),(3,7,8),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(3,7,8),(4,8,9)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,1,1),(1,2,2),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,6,7),(4,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(3,6,7)); lvl=1; h,r-ind=1,1
```

23.83 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,21,23)); lvl=0; h,r-ind=23,529
  [3,3]((4,11,12),(5,12,13),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,21,23),(4,11,12),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(5,12,13),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,2),(1,1,1),(5,12,13),(10,27,29)); lvl=1; h,r-ind=1,1
    [4,3]((5,13,14),(1,1,1),(5,12,13),(7,16,17)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(5,12,13),(6,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,14),(5,12,13),(6,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((7,16,17),(1,1,1),(6,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,14),(7,16,17),(6,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(5,13,14),(7,16,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(5,13,14),(10,27,29)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,1,1),(7,16,17)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,3),(1,2,2),(10,27,29),(5,15,16)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(5,14,15),(10,27,29)); lvl=2; h,r-ind=1,1
    [3,3]((7,19,20),(1,2,2),(5,14,15)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(5,15,16),(7,19,20),(5,14,15)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,15,16),(6,17,18),(5,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((7,19,20),(6,17,18),(5,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(7,19,20),(6,17,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(5,15,16),(6,17,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(7,19,20),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(5,15,16)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((4,11,12),(5,12,13),(10,27,29),(8,23,25)); lvl=1; h,r-ind=1,1
    [4,3]((9,25,27),(5,13,14),(13,36,39),(22,60,65)); lvl=2; h,r-ind=1,1
      [3,3]((18,49,53),(5,13,14),(22,60,65)); lvl=3; h,r-ind=1,1
      [3,3]((18,49,53),(13,36,39),(22,60,65)); lvl=3; h,r-ind=1,1
      [3,3]((9,25,27),(18,49,53),(13,36,39)); lvl=3; h,r-ind=1,1
      [3,3]((9,25,27),(18,49,53),(5,13,14)); lvl=3; h,r-ind=1,1
    [4,3]((4,11,12),(8,23,25),(13,36,39),(22,60,65)); lvl=2; h,r-ind=1,1
      [3,3]((8,23,25),(17,47,51),(13,36,39)); lvl=3; h,r-ind=1,1
      [3,3]((22,60,65),(17,47,51),(13,36,39)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,12),(8,23,25),(17,47,51)); lvl=3; h,r-ind=1,1
      [3,3]((22,60,65),(4,11,12),(17,47,51)); lvl=3; h,r-ind=1,1
    [4,3]((4,11,12),(5,12,13),(5,13,14),(22,60,65)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((5,12,13),(5,13,14),(9,24,26)); lvl=3; h,r-ind=1,1
      [3,3]((22,60,65),(5,13,14),(9,24,26)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,12),(22,60,65),(9,24,26)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,12),(5,12,13),(9,24,26)); lvl=3; h,r-ind=1,1
    [3,3]((8,23,25),(9,25,27),(13,36,39)); lvl=2; h,r-ind=1,1
    [3,3]((9,25,27),(10,27,29),(5,13,14)); lvl=2; h,r-ind=1,1
  [3,3]((7,21,23),(4,11,12),(8,23,25)); lvl=1; h,r-ind=1,1
  [4,3]((4,12,13),(10,27,29),(5,15,16),(8,23,25)); lvl=1; h,r-ind=1,1
    [3,3]((9,25,27),(5,14,15),(10,27,29)); lvl=2; h,r-ind=1,1
    [4,3]((9,25,27),(13,37,40),(22,63,68),(5,14,15)); lvl=2; h,r-ind=1,1
      [3,3]((18,51,55),(13,37,40),(22,63,68)); lvl=3; h,r-ind=1,1
      [3,3]((5,14,15),(18,51,55),(22,63,68)); lvl=3; h,r-ind=1,1
      [3,3]((9,25,27),(18,51,55),(13,37,40)); lvl=3; h,r-ind=1,1
      [3,3]((5,14,15),(9,25,27),(18,51,55)); lvl=3; h,r-ind=1,1
    [4,3]((4,12,13),(22,63,68),(5,15,16),(5,14,15)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((9,26,28),(22,63,68),(5,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,15,16),(9,26,28),(5,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,12,13),(5,15,16),(9,26,28)); lvl=3; h,r-ind=1,1
      [3,3]((4,12,13),(9,26,28),(22,63,68)); lvl=3; h,r-ind=1,1
    [3,3]((9,25,27),(8,23,25),(13,37,40)); lvl=2; h,r-ind=1,1
    [4,3]((4,12,13),(8,23,25),(13,37,40),(22,63,68)); lvl=2; h,r-ind=1,1
      [3,3]((13,37,40),(17,49,53),(8,23,25)); lvl=3; h,r-ind=1,1
      [3,3]((4,12,13),(17,49,53),(8,23,25)); lvl=3; h,r-ind=1,1
      [3,3]((22,63,68),(4,12,13),(17,49,53)); lvl=3; h,r-ind=1,1
      [3,3]((22,63,68),(13,37,40),(17,49,53)); lvl=3; h,r-ind=1,1
  [3,3]((7,21,23),(4,12,13),(8,23,25)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,12,13),(5,15,16)); lvl=1; h,r-ind=1,1
  [3,3]((7,21,23),(0,1,0),(4,12,13)); lvl=1; h,r-ind=1,1
```

23.84 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,22,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,2,2),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(5,16,16),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,22,23),(5,16,16),(0,1,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((7,22,23),(1,3,3),(5,16,16)); lvl=1; h,r-ind=1,1
  [3,3]((7,22,23),(1,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((7,22,23),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(7,22,23),(1,1,1)); lvl=1; h,r-ind=1,1
```

23.85 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,9,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((1,0,0),(3,3,7),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,7),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,5),(1,0,0),(3,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((9,9,23),(2,2,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,5),(3,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((9,9,23),(0,1,0),(2,2,5)); lvl=1; h,r-ind=1,1
```

23.86 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,11,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,1,2),(0,1,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(3,4,7),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,7),(2,3,5),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((9,11,23),(2,3,5),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,2),(3,4,7),(5,6,12),(7,9,17)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,7),(7,9,17),(8,10,19)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,12),(7,9,17),(8,10,19)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,7),(8,10,19)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,12),(1,1,2),(8,10,19)); lvl=2; h,r-ind=1,1
  [3,3]((9,11,23),(1,1,2),(5,6,12)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(9,11,23),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((9,11,23),(6,8,15),(5,6,12),(7,9,17)); lvl=1; h,r-ind=1,4
    [3,3]((4,5,10),(6,8,15),(7,9,17)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,10),(5,6,12),(7,9,17)); lvl=2; h,r-ind=1,1
    [3,3]((9,11,23),(4,5,10),(5,6,12)); lvl=2; h,r-ind=1,1
    [3,3]((9,11,23),(4,5,10),(6,8,15)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,7),(2,3,5),(6,8,15),(7,9,17)); lvl=1; h,r-ind=1,1
    [3,3]((9,12,22),(6,8,15),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,7),(9,12,22),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,17),(9,12,22),(6,8,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,7),(7,9,17),(9,12,22)); lvl=2; h,r-ind=1,1
  [3,3]((9,11,23),(2,3,5),(6,8,15)); lvl=1; h,r-ind=1,1
```

23.87 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,13,23)); lvl=0; h,r-ind=23,529
  [3,3]((5,5,8),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((5,7,12),(3,4,7),(5,5,8),(9,11,18),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((3,4,7),(8,10,17),(8,9,15),(3,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((8,9,15),(8,10,17),(11,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,7),(8,10,17),(11,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,5),(3,4,7),(11,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,5),(8,9,15),(11,13,22)); lvl=3; h,r-ind=1,1
    [4,3]((5,5,8),(7,8,13),(8,9,15),(3,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((7,8,13),(10,11,18),(8,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,5),(10,11,18),(8,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,5),(5,5,8),(10,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((5,5,8),(7,8,13),(10,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(3,4,7),(3,3,5)); lvl=2; h,r-ind=1,1
```

```
  [3,3]((5,5,8),(1,0,0),(3,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,12),(3,4,7),(8,10,17)); lvl=2; h,r-ind=1,1
  [4,3]((5,7,12),(7,9,15),(8,10,17),(8,9,15)); lvl=2; h,r-ind=1,1
    [4,3]((8,10,17),(18,23,39),(8,9,15),(5,6,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((13,16,27),(5,6,10),(18,23,39)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,17),(13,16,27),(18,23,39)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,15),(13,16,27),(5,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,17),(8,9,15),(13,16,27)); lvl=4; h,r-ind=1,1
    [3,3]((5,7,12),(18,23,39),(5,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,12),(7,9,15),(5,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,12),(8,10,17),(18,23,39)); lvl=3; h,r-ind=1,1
  [4,3]((7,9,15),(9,11,18),(7,8,13),(8,9,15)); lvl=2; h,r-ind=1,1
    [3,3]((9,11,18),(21,25,41),(7,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,10),(21,25,41),(7,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,10),(8,9,15),(7,8,13)); lvl=3; h,r-ind=1,1
    [4,3]((7,9,15),(5,6,10),(9,11,18),(21,25,41)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,6,10),(21,25,41),(14,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,18),(21,25,41),(14,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,15),(5,6,10),(14,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,18),(7,9,15),(14,17,28)); lvl=4; h,r-ind=1,1
[3,3]((9,13,23),(3,4,7),(1,0,0)); lvl=1; h,r-ind=1,1
[3,3]((9,13,23),(5,7,12),(3,4,7)); lvl=1; h,r-ind=1,1
[4,3]((2,3,3),(4,5,7),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((4,5,7),(2,2,3),(5,6,8),(8,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(8,9,12),(7,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,8),(8,9,12),(7,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,7),(5,6,8),(7,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,7),(2,2,3),(7,8,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,1),(3,4,5),(5,6,8),(8,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,8),(3,4,5),(6,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(3,4,5),(6,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((8,9,12),(1,1,1),(6,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((8,9,12),(5,6,8),(6,7,9)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,3),(1,1,1),(3,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,1),(1,0,0),(2,2,3),(8,9,12)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((8,9,12),(2,2,3),(3,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(8,9,12),(3,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,5),(4,5,7),(5,6,8)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(2,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
[5,3]((4,5,7),(3,4,6),(5,5,8),(9,11,18),(2,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((4,5,8),(6,7,11),(3,4,6),(5,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,9),(6,7,11),(9,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,8),(6,7,11),(9,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(4,5,8),(9,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(5,6,9),(9,11,17)); lvl=3; h,r-ind=1,1
  [3,3]((4,5,7),(3,4,6),(5,6,9)); lvl=2; h,r-ind=1,1
  [4,3]((2,2,3),(6,7,11),(19,21,33),(5,6,9)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((8,9,14),(19,21,33),(6,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,9),(8,9,14),(6,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(5,6,9),(8,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(8,9,14),(19,21,33)); lvl=3; h,r-ind=1,1
  [3,3]((4,5,7),(2,2,3),(5,6,9)); lvl=2; h,r-ind=1,1
  [4,3]((2,2,3),(19,21,33),(11,12,19),(5,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((19,21,33),(13,14,22),(11,12,19)); lvl=3; h,r-ind=1,1
    [3,3]((5,5,8),(13,14,22),(11,12,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(19,21,33),(13,14,22)); lvl=3; h,r-ind=1,1
    [3,3]((5,5,8),(2,2,3),(13,14,22)); lvl=3; h,r-ind=1,1
  [3,3]((7,8,13),(11,12,19),(5,5,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((4,5,8),(7,8,13),(6,7,11),(19,21,33),(11,12,19)); lvl=2; h,r-ind=1,1
    [4,3]((6,7,11),(17,19,30),(25,29,46),(15,17,27)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((15,17,27),(21,24,38),(17,19,30)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,11),(21,24,38),(17,19,30)); lvl=4; h,r-ind=1,1
      [3,3]((25,29,46),(6,7,11),(21,24,38)); lvl=4; h,r-ind=1,1
      [3,3]((25,29,46),(15,17,27),(21,24,38)); lvl=4; h,r-ind=1,1
    [5,3]((4,5,8),(7,8,13),(9,10,16),(25,29,46),(15,17,27)); lvl=3; h,r-ind=1,1
      [3,3]((28,32,51),(9,10,16),(15,17,27)); lvl=4; h,r-ind=1,1
      [4,3]((32,37,59),(19,22,35),(28,32,51),(15,17,27)); lvl=4; h,r-ind=1,1
        [3,3]((47,54,86),(15,17,27),(19,22,35)); lvl=5; h,r-ind=1,1
        [3,3]((32,37,59),(47,54,86),(19,22,35)); lvl=5; h,r-ind=1,1
        [3,3]((28,32,51),(47,54,86),(15,17,27)); lvl=5; h,r-ind=1,1
        [3,3]((32,37,59),(28,32,51),(47,54,86)); lvl=5; h,r-ind=1,1
      [3,3]((25,29,46),(19,22,35),(15,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(25,29,46),(19,22,35)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(32,37,59),(19,22,35)); lvl=4; h,r-ind=1,1
      [4,3]((13,15,24),(32,37,59),(28,32,51),(9,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((32,37,59),(28,32,51),(41,47,75)); lvl=5; h,r-ind=1,1
        [3,3]((9,10,16),(28,32,51),(41,47,75)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((13,15,24),(32,37,59),(41,47,75)); lvl=5; h,r-ind=1,1
          [3,3]((9,10,16),(13,15,24),(41,47,75)); lvl=5; h,r-ind=1,1
        [3,3]((13,15,24),(7,8,13),(9,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(13,15,24),(7,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(13,15,24),(32,37,59)); lvl=4; h,r-ind=1,1
      [4,3]((9,10,16),(11,12,19),(17,19,30),(15,17,27)); lvl=3; h,r-ind=1,1
        [3,3]((26,29,46),(17,19,30),(11,12,19)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,16),(26,29,46),(11,12,19)); lvl=4; h,r-ind=1,1
        [3,3]((15,17,27),(9,10,16),(26,29,46)); lvl=4; h,r-ind=1,1
        [3,3]((15,17,27),(26,29,46),(17,19,30)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(6,7,11),(25,29,46)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,11),(19,21,33),(17,19,30)); lvl=3; h,r-ind=1,1
      [3,3]((11,12,19),(19,21,33),(17,19,30)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,8),(9,11,18),(7,8,13)); lvl=2; h,r-ind=1,1
  [5,3]((2,3,5),(5,7,12),(3,4,6),(9,11,18),(4,6,9)); lvl=1; h,r-ind=1,1
    [3,3]((11,15,25),(7,9,15),(5,7,12)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,3,5),(11,15,25),(19,26,43),(5,7,12)); lvl=2; h,r-ind=1,1
      [3,3]((13,18,30),(19,26,43),(11,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,12),(13,18,30),(11,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,7,12),(13,18,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(13,18,30),(19,26,43)); lvl=3; h,r-ind=1,1
    [5,3]((11,15,25),(19,26,43),(6,8,13),(4,5,8),(7,9,15)); lvl=2; h,r-ind=1,1
      [3,3]((6,8,13),(4,5,8),(25,33,54)); lvl=3; h,r-ind=1,1
      [5,3]((9,12,20),(15,20,33),(7,9,15),(4,5,8),(25,33,54)); lvl=3; h,r-ind=1,1
        [3,3]((15,20,33),(25,33,54),(19,25,41)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(25,33,54),(19,25,41)); lvl=4; h,r-ind=1,1
        [4,3]((15,20,33),(32,42,69),(28,37,61),(19,25,41)); lvl=4; h,r-ind=1,1
          [3,3]((47,62,102),(28,37,61),(32,42,69)); lvl=5; h,r-ind=1,1
          [3,3]((19,25,41),(47,62,102),(32,42,69)); lvl=5; h,r-ind=1,1
          [3,3]((15,20,33),(19,25,41),(47,62,102)); lvl=5; h,r-ind=1,1
          [3,3]((15,20,33),(47,62,102),(28,37,61)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,8),(32,42,69),(19,25,41)); lvl=4; h,r-ind=1,1
        [4,3]((9,12,20),(32,42,69),(13,17,28),(28,37,61)); lvl=4; h,r-ind=1,1
          [3,3]((13,17,28),(32,42,69),(41,54,89)); lvl=5; h,r-ind=1,1
          [3,3]((28,37,61),(32,42,69),(41,54,89)); lvl=5; h,r-ind=1,1
          [3,3]((9,12,20),(13,17,28),(41,54,89)); lvl=5; h,r-ind=1,1
          [3,3]((28,37,61),(9,12,20),(41,54,89)); lvl=5; h,r-ind=1,1
        [3,3]((9,12,20),(13,17,28),(7,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(13,17,28),(7,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(32,42,69),(13,17,28)); lvl=4; h,r-ind=1,1
        [3,3]((9,12,20),(15,20,33),(28,37,61)); lvl=4; h,r-ind=1,1
      [4,3]((11,15,25),(17,23,38),(9,12,20),(15,20,33)); lvl=3; h,r-ind=1,1
        [3,3]((15,20,33),(9,12,20),(26,35,58)); lvl=4; h,r-ind=1,1
        [3,3]((11,15,25),(9,12,20),(26,35,58)); lvl=4; h,r-ind=1,1
        [3,3]((17,23,38),(11,15,25),(26,35,58)); lvl=4; h,r-ind=1,1
        [3,3]((17,23,38),(15,20,33),(26,35,58)); lvl=4; h,r-ind=1,1
      [3,3]((19,26,43),(11,15,25),(17,23,38)); lvl=3; h,r-ind=1,1
      [4,3]((17,23,38),(15,20,33),(6,8,13),(25,33,54)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((21,28,46),(15,20,33),(25,33,54)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,13),(21,28,46),(25,33,54)); lvl=4; h,r-ind=1,1
        [3,3]((17,23,38),(21,28,46),(15,20,33)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,13),(17,23,38),(21,28,46)); lvl=4; h,r-ind=1,1
      [3,3]((19,26,43),(17,23,38),(6,8,13)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,5),(19,26,43),(6,8,13),(5,7,11)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((19,26,43),(8,11,18),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(8,11,18),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,7,11),(8,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(19,26,43),(8,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(4,6,9),(5,7,11)); lvl=2; h,r-ind=1,1
    [4,3]((6,8,13),(5,7,11),(4,5,8),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((9,12,19),(3,4,6),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,13),(9,12,19),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(9,12,19),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,13),(4,5,8),(9,12,19)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,9),(5,7,11),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,8),(9,11,18),(7,9,15)); lvl=2; h,r-ind=1,1
  [3,3]((9,13,23),(2,3,5),(5,7,12)); lvl=1; h,r-ind=1,1
  [6,3]((2,3,3),(4,5,7),(3,4,6),(1,2,2),(3,5,7),(4,6,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(3,5,7),(4,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(2,3,4),(4,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,7),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,7),(3,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(3,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,5),(3,5,7),(4,6,9)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(3,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,5),(0,1,0),(3,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((9,13,23),(2,3,5),(0,1,0)); lvl=1; h,r-ind=1,1
```

23.88 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,16,23)); lvl=0; h,r-ind=23,529
  [3,3]((5,8,11),(1,0,0),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((4,7,9),(5,8,11),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,3),(3,5,6),(1,1,1),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,6),(4,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(3,5,6),(4,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(4,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,4),(4,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,9),(3,5,6),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(5,8,11),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((4,7,9),(3,6,7),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,6,7),(0,1,0),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(0,1,0),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(3,6,7),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(3,5,6),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(3,5,6),(1,2,2)); lvl=2; h,r-ind=1,1
  [4,3]((6,11,15),(4,7,9),(3,6,7),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((8,15,19),(3,6,7),(4,7,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((5,9,12),(8,15,19),(4,7,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((8,15,19),(2,4,5),(3,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((6,11,15),(5,9,12),(8,15,19),(2,4,5)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,13,17),(5,9,12),(8,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(7,13,17),(8,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,15),(7,13,17),(5,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(6,11,15),(7,13,17)); lvl=3; h,r-ind=1,1
  [3,3]((3,6,7),(0,1,0),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((9,16,23),(0,1,0),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((9,16,23),(6,11,15),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((5,8,11),(4,7,10),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((9,16,23),(4,7,10),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((6,11,15),(4,7,9),(5,8,11),(4,7,10)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,9),(3,5,7),(5,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(5,9,12),(3,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((4,7,10),(6,11,15),(5,9,12),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((9,16,22),(5,9,12),(6,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(9,16,22),(6,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(4,7,10),(9,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(9,16,22),(5,9,12)); lvl=3; h,r-ind=1,1
  [3,3]((9,16,23),(6,11,15),(4,7,10)); lvl=1; h,r-ind=1,1
```

23.89 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,17,23)); lvl=0; h,r-ind=23,529
  [4,3]((3,5,6),(1,1,1),(2,3,3),(3,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,7),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(4,6,7),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(3,4,5),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,6,7),(2,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(3,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,6),(4,7,9),(2,3,4),(3,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,9),(5,8,10),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(5,8,10),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(3,4,5),(5,8,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,7,9),(5,8,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,4),(3,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((9,17,23),(1,0,0),(2,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((3,6,7),(3,5,6),(2,4,5),(4,7,9)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,6),(5,9,11),(4,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(5,9,11),(4,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(2,4,5),(5,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(3,5,6),(5,9,11)); lvl=2; h,r-ind=1,1
  [3,3]((5,9,12),(4,7,9),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((9,17,23),(5,9,12),(2,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((2,4,5),(13,24,32),(5,9,12),(4,7,9)); lvl=1; h,r-ind=1,1
    [3,3]((7,13,17),(13,24,32),(5,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(7,13,17),(5,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(4,7,9),(7,13,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(7,13,17),(13,24,32)); lvl=2; h,r-ind=1,1
  [3,3]((9,17,23),(2,4,5),(13,24,32)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(9,17,23),(2,4,5)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((9,17,23),(13,24,32),(5,9,12)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,6,7),(3,5,6),(2,3,3)); lvl=1; h,r-ind=1,3
    [3,3]((1,2,2),(3,6,7),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(3,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,6,7),(2,4,5)); lvl=1; h,r-ind=1,1
```

23.90 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,21,23)); lvl=0; h,r-ind=23,529
  [3,3]((3,7,7),(6,14,15),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((9,21,23),(6,14,15),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,7,7),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((9,21,23),(0,1,0),(2,5,5)); lvl=1; h,r-ind=1,1
  [5,3]((1,2,2),(6,13,14),(3,7,7),(6,14,15),(16,37,40)); lvl=1; h,r-ind=1,1
    [4,3]((17,39,42),(24,55,59),(6,14,15),(16,37,40)); lvl=2; h,r-ind=1,1
      [3,3]((23,53,57),(6,14,15),(24,55,59)); lvl=3; h,r-ind=1,1
      [3,3]((17,39,42),(23,53,57),(24,55,59)); lvl=3; h,r-ind=1,1
      [3,3]((17,39,42),(23,53,57),(16,37,40)); lvl=3; h,r-ind=1,1
      [3,3]((23,53,57),(16,37,40),(6,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((11,25,27),(17,39,42),(16,37,40)); lvl=2; h,r-ind=1,1
    [6,3]((19,43,46),(25,57,61),(12,27,29),(11,25,27),(17,39,42),(24,55,59)); lvl=2; h,r-ind=1,1
      [3,3]((18,41,44),(11,25,27),(17,39,42)); lvl=3; h,r-ind=1,1
      [3,3]((18,41,44),(24,55,59),(17,39,42)); lvl=3; h,r-ind=1,1
      [3,3]((25,57,61),(18,41,44),(24,55,59)); lvl=3; h,r-ind=1,1
      [3,3]((12,27,29),(18,41,44),(11,25,27)); lvl=3; h,r-ind=1,1
      [3,3]((19,43,46),(12,27,29),(18,41,44)); lvl=3; h,r-ind=1,1
      [3,3]((25,57,61),(19,43,46),(18,41,44)); lvl=3; h,r-ind=1,1
    [3,3]((6,13,14),(12,27,29),(11,25,27)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(19,43,46),(6,13,14),(12,27,29)); lvl=2; h,r-ind=1,1
      [3,3]((19,43,46),(13,29,31),(12,27,29)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,14),(13,29,31),(12,27,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(19,43,46),(13,29,31)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,14),(1,2,2),(13,29,31)); lvl=3; h,r-ind=1,1
    [4,3]((25,57,61),(7,16,17),(24,55,59),(6,14,15)); lvl=2; h,r-ind=1,1
      [3,3]((7,16,17),(6,14,15),(31,71,76)); lvl=3; h,r-ind=1,1
      [3,3]((24,55,59),(6,14,15),(31,71,76)); lvl=3; h,r-ind=1,1
      [3,3]((25,57,61),(7,16,17),(31,71,76)); lvl=3; h,r-ind=1,1
      [3,3]((24,55,59),(25,57,61),(31,71,76)); lvl=3; h,r-ind=1,1
    [3,3]((7,16,17),(6,14,15),(3,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(7,16,17),(3,7,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(19,43,46),(25,57,61),(7,16,17)); lvl=2; h,r-ind=1,1
      [3,3]((19,43,46),(25,57,61),(26,59,63)); lvl=3; h,r-ind=1,1
      [3,3]((7,16,17),(25,57,61),(26,59,63)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(7,16,17),(26,59,63)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(19,43,46),(26,59,63)); lvl=3; h,r-ind=1,1
  [3,3]((9,21,23),(6,14,15),(16,37,40)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(3,7,7)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,2),(6,13,14),(7,14,15),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((6,13,14),(7,14,15),(8,16,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(7,14,15),(8,16,17)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(6,13,14),(8,16,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(8,16,17)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,1),(7,14,15),(6,12,13),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((6,12,13),(7,14,15),(8,15,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(7,14,15),(8,15,16)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(6,12,13),(8,15,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(8,15,16)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(6,12,13)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((9,21,23),(6,13,14),(16,37,40),(5,11,12)); lvl=1; h,r-ind=1,1
    [3,3]((10,23,25),(16,37,40),(11,25,27)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,14),(10,23,25),(11,25,27)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,12),(6,13,14),(10,23,25)); lvl=2; h,r-ind=1,1
    [3,3]((9,21,23),(10,23,25),(16,37,40)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,12),(9,21,23),(10,23,25)); lvl=2; h,r-ind=1,1
  [4,3]((6,13,14),(7,14,15),(6,12,13),(5,11,12)); lvl=1; h,r-ind=1,1
    [3,3]((6,12,13),(7,14,15),(12,25,27)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,14),(7,14,15),(12,25,27)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,12),(6,13,14),(12,25,27)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,12),(6,12,13),(12,25,27)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(6,12,13),(5,11,12)); lvl=1; h,r-ind=1,1
  [3,3]((9,21,23),(1,0,0),(5,11,12)); lvl=1; h,r-ind=1,1
```

23.91 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,22,23)); lvl=0; h,r-ind=23,529
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((9,22,23),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(9,22,23),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((9,22,23),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,7),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,7),(2,5,5),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((9,22,23),(2,5,5),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((9,22,23),(3,7,7),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((9,22,23),(3,7,7),(1,2,2)); lvl=1; h,r-ind=1,1
```

23.92 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,11,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((11,11,23),(0,1,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((11,11,23),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
```

23.93 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,17,23)); lvl=0; h,r-ind=23,529
  [4,3]((1,1,1),(2,3,3),(4,6,7),(3,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(4,6,7),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(4,6,7),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(1,1,1),(5,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(3,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,6),(2,3,4),(4,6,7),(3,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,5),(6,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,7),(3,4,5),(6,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(2,3,4),(6,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,7),(3,5,6),(6,9,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,4),(3,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((11,17,23),(1,0,0),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((11,17,23),(3,5,6),(2,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,6),(2,3,3),(4,6,7),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,7),(2,3,3),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(1,2,2),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,6,7),(5,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((11,17,23),(3,5,6),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(11,17,23),(1,2,2)); lvl=1; h,r-ind=1,1
```

23.94 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,19,23)); lvl=0; h,r-ind=23,529
  [4,3]((4,7,8),(4,6,7),(5,8,9),(3,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,9),(4,6,7),(8,13,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,6,7),(8,13,15)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(3,5,6),(8,13,15)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(5,8,9),(8,13,15)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(4,6,7),(3,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((11,19,23),(1,0,0),(3,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((11,19,23),(4,7,8),(3,5,6)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,1),(4,6,7),(5,8,9),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,7),(5,8,9),(6,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(5,8,9),(6,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(6,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(4,6,7),(6,9,10)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(4,6,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((4,7,8),(1,2,2),(5,8,9),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,9),(2,3,3),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(1,2,2),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,9),(4,7,8),(6,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((11,19,23),(4,7,8),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((11,19,23),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
```

23.95 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,20,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(5,8,9),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,7,8),(5,8,9),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((11,20,23),(4,7,8),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((11,20,23),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((6,10,11),(5,9,10),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((7,12,13),(5,9,10),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(7,12,13),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((6,10,11),(2,3,3),(7,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((6,10,11),(7,12,13),(5,9,10)); lvl=2; h,r-ind=1,1
  [4,3]((4,7,8),(5,8,9),(6,10,11),(5,9,10)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,9),(6,10,11),(10,17,19)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,10),(6,10,11),(10,17,19)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(5,9,10),(10,17,19)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(5,8,9),(10,17,19)); lvl=2; h,r-ind=1,1
  [3,3]((11,20,23),(4,7,8),(5,9,10)); lvl=1; h,r-ind=1,1
  [3,3]((11,20,23),(5,9,10),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,1),(5,8,9),(6,10,11),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,9),(6,10,11),(7,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(6,10,11),(7,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(5,8,9),(7,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(7,11,12)); lvl=2; h,r-ind=1,1
```

23.96 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,22,23)); lvl=0; h,r-ind=23,529
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((11,22,23),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((11,22,23),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((11,22,23),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((11,22,23),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

23.97 Resolved

```
[3,3]((1,0,0),(0,1,0),(13,13,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,0,0),(5,5,8),(4,4,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(5,5,8),(4,4,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((13,13,23),(0,1,0),(4,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((13,13,23),(1,0,0),(4,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(5,5,8)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,1,1),(5,5,8)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

23.98 Resolved

```
[3,3]((1,0,0),(0,1,0),(13,15,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,0,0),(3,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((5,7,8),(0,1,0),(3,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((3,3,4),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((5,7,8),(0,1,0),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,6),(3,3,4),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,8),(4,5,6),(2,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,5),(5,7,8),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,7),(3,4,5),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((13,15,23),(4,5,7),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=1; h,r-ind=1,1
  [5,3]((6,7,10),(3,4,5),(5,7,8),(2,2,3),(3,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((7,9,11),(4,5,6),(5,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,5),(12,15,19),(7,9,11),(5,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((10,13,16),(12,15,19),(7,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,8),(10,13,16),(7,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(5,7,8),(10,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(10,13,16),(12,15,19)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(6,7,10),(5,6,8)); lvl=2; h,r-ind=1,1
    [6,3]((12,15,19),(14,17,22),(7,9,11),(4,5,6),(6,7,9),(11,13,17)); lvl=2; h,r-ind=1,1
      [3,3]((9,11,14),(11,13,17),(14,17,22)); lvl=3; h,r-ind=1,1
      [3,3]((12,15,19),(9,11,14),(14,17,22)); lvl=3; h,r-ind=1,1
      [3,3]((12,15,19),(9,11,14),(7,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,14),(11,13,17),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,14),(6,7,9),(4,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,14),(7,9,11),(4,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,4),(4,5,6),(6,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(3,3,4),(6,7,9),(11,13,17)); lvl=2; h,r-ind=1,1
      [3,3]((8,9,12),(3,3,4),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((11,13,17),(8,9,12),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(11,13,17),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(8,9,12),(3,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,5),(12,15,19),(5,6,8),(14,17,22)); lvl=2; h,r-ind=1,1
      [3,3]((14,17,22),(12,15,19),(17,21,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(12,15,19),(17,21,27)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(3,4,5),(17,21,27)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(14,17,22),(17,21,27)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,3),(5,6,8),(14,17,22),(11,13,17)); lvl=2; h,r-ind=1,1
      [3,3]((16,19,25),(5,6,8),(14,17,22)); lvl=3; h,r-ind=1,1
      [3,3]((11,13,17),(16,19,25),(14,17,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(11,13,17),(16,19,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(16,19,25),(5,6,8)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,10),(2,2,3),(5,6,8)); lvl=2; h,r-ind=1,1
  [3,3]((6,7,10),(7,8,12),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((13,15,23),(7,8,12),(2,2,3)); lvl=1; h,r-ind=1,1
  [5,3]((4,5,7),(19,22,33),(6,7,10),(3,4,5),(7,8,12)); lvl=1; h,r-ind=1,1
    [3,3]((7,8,12),(19,22,33),(11,13,19)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,7),(19,22,33),(11,13,19)); lvl=2; h,r-ind=1,1
    [4,3]((7,8,12),(17,20,29),(21,25,36),(11,13,19)); lvl=2; h,r-ind=1,1
      [3,3]((28,33,48),(21,25,36),(17,20,29)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,12),(28,33,48),(17,20,29)); lvl=3; h,r-ind=1,1
      [3,3]((11,13,19),(28,33,48),(21,25,36)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,12),(11,13,19),(28,33,48)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,7),(14,17,24),(21,25,36),(11,13,19)); lvl=2; h,r-ind=1,1
      [3,3]((25,30,43),(21,25,36),(14,17,24)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(25,30,43),(14,17,24)); lvl=3; h,r-ind=1,1
      [3,3]((11,13,19),(4,5,7),(25,30,43)); lvl=3; h,r-ind=1,1
      [3,3]((11,13,19),(25,30,43),(21,25,36)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,10),(7,8,12),(17,20,29)); lvl=2; h,r-ind=1,1
    [5,3]((3,4,5),(6,7,10),(14,17,24),(17,20,29),(21,25,36)); lvl=2; h,r-ind=1,1
      [3,3]((10,12,17),(21,25,36),(17,20,29)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,10),(10,12,17),(17,20,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(6,7,10),(10,12,17)); lvl=3; h,r-ind=1,1
      [3,3]((10,12,17),(14,17,24),(21,25,36)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(10,12,17),(14,17,24)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,7),(3,4,5),(14,17,24)); lvl=2; h,r-ind=1,1
  [3,3]((13,15,23),(19,22,33),(7,8,12)); lvl=1; h,r-ind=1,1
  [3,3]((13,15,23),(4,5,7),(19,22,33)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((13,15,23),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
```

23.99 Resolved

```
[3,3]((1,0,0),(0,1,0),(13,22,23)); lvl=0; h,r-ind=23,529
  [3,3]((0,1,0),(5,8,8),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((13,22,23),(5,8,8),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(13,22,23),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,8,8),(4,7,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((13,22,23),(0,1,0),(4,7,7)); lvl=1; h,r-ind=1,1
  [3,3]((13,22,23),(5,8,8),(4,7,7)); lvl=1; h,r-ind=3,3; optimized-h
```

23.100 Resolved

```
[3,3]((1,0,0),(0,1,0),(15,15,23)); lvl=0; h,r-ind=23,529
  [3,3]((1,0,0),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((15,15,23),(0,1,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((15,15,23),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

23.101 Resolved

```
[3,3]((1,0,0),(0,1,0),(15,22,23)); lvl=0; h,r-ind=23,529
  [3,3]((3,4,4),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((15,22,23),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(15,22,23),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,4),(2,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((15,22,23),(2,3,3),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((15,22,23),(3,4,4),(2,3,3)); lvl=1; h,r-ind=1,1
```

23.102 Resolved

```
[3,3]((1,0,0),(0,1,0),(17,17,23)); lvl=0; h,r-ind=23,529
  [3,3]((4,4,5),(3,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((17,17,23),(3,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(4,4,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(4,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,4,5),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((17,17,23),(0,1,0),(3,3,4)); lvl=1; h,r-ind=1,1
```

23.103 Resolved

```
[3,3]((1,0,0),(0,1,0),(17,22,23)); lvl=0; h,r-ind=23,529
  [3,3]((4,5,5),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((17,22,23),(4,5,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(17,22,23),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,4),(4,5,5),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((17,22,23),(3,4,4),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((17,22,23),(3,4,4),(4,5,5)); lvl=1; h,r-ind=1,1
```

23.104 Resolved

```
[3,3]((1,0,0),(0,1,0),(22,22,23)); lvl=0; h,r-ind=23,529
  [3,3]((22,22,23),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(22,22,23),(1,1,1)); lvl=1; h,r-ind=1,1
```

24 H-index = 24

24.0 Classification

```
[3,3]((1,0,0),(0,1,0),(0,1,24))
  [3,3]((1,0,0),(0,1,0),(0,1,24))
  [3,3]((1,0,0),(0,1,0),(1,0,24))
  [3,3]((1,0,0),(1,24,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,5,24))
  [3,3]((1,0,0),(0,1,0),(0,5,24))
```

```
  [3,3]((1,0,0),(0,1,0),(5,0,24))
  [3,3]((1,0,0),(5,24,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,7,24))
  [3,3]((1,0,0),(0,1,0),(0,7,24))
  [3,3]((1,0,0),(0,1,0),(7,0,24))
  [3,3]((1,0,0),(7,24,0),(0,0,1))
[3,3]((1,0,0),(0,1,0),(0,11,24))
  [3,3]((1,0,0),(0,1,0),(0,11,24))
  [3,3]((1,0,0),(0,1,0),(11,0,24))
  [3,3]((1,0,0),(11,24,0),(0,0,1))
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[3,3]((1,0,0),(0,1,0),(11,18,24))
  [3,3]((1,0,0),(0,1,0),(11,18,24))
  [3,3]((1,0,0),(0,1,0),(18,11,24))
  [3,3]((1,0,0),(5,6,0),(1,3,4))
[3,3]((1,0,0),(0,1,0),(11,20,24))
  [3,3]((1,0,0),(0,1,0),(11,20,24))
  [3,3]((1,0,0),(0,1,0),(20,11,24))
  [3,3]((1,0,0),(3,4,0),(2,5,6))
[3,3]((1,0,0),(0,1,0),(11,22,24))
  [3,3]((1,0,0),(0,1,0),(11,22,24))
  [3,3]((1,0,0),(0,1,0),(22,11,24))
  [3,3]((1,0,0),(1,2,0),(5,11,12))
[3,3]((1,0,0),(0,1,0),(12,13,24))
  [3,3]((1,0,0),(0,1,0),(12,13,24))
  [3,3]((1,0,0),(0,1,0),(13,12,24))
  [3,3]((1,0,0),(1,12,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(12,17,24))
  [3,3]((1,0,0),(0,1,0),(12,17,24))
  [3,3]((1,0,0),(0,1,0),(17,12,24))
  [3,3]((1,0,0),(5,12,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(12,19,24))
  [3,3]((1,0,0),(0,1,0),(12,19,24))
  [3,3]((1,0,0),(0,1,0),(19,12,24))
  [3,3]((1,0,0),(7,12,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(12,23,24))
  [3,3]((1,0,0),(0,1,0),(12,23,24))
```

```
  [3,3]((1,0,0),(0,1,0),(23,12,24))
  [3,3]((1,0,0),(11,12,0),(1,1,2))
[3,3]((1,0,0),(0,1,0),(13,13,24))
  [3,3]((1,0,0),(0,1,0),(13,13,24))
  [3,3]((1,0,0),(0,1,0),(13,23,24))
  [3,3]((1,0,0),(0,1,0),(23,13,24))
[3,3]((1,0,0),(0,1,0),(13,15,24))
  [3,3]((1,0,0),(0,1,0),(13,15,24))
  [3,3]((1,0,0),(0,1,0),(13,21,24))
  [3,3]((1,0,0),(0,1,0),(15,13,24))
  [3,3]((1,0,0),(0,1,0),(21,13,24))
  [3,3]((1,0,0),(1,3,0),(4,5,8))
  [3,3]((1,0,0),(1,3,0),(4,7,8))
[3,3]((1,0,0),(0,1,0),(13,17,24))
  [3,3]((1,0,0),(0,1,0),(13,17,24))
  [3,3]((1,0,0),(0,1,0),(13,19,24))
  [3,3]((1,0,0),(0,1,0),(17,13,24))
  [3,3]((1,0,0),(0,1,0),(17,19,24))
  [3,3]((1,0,0),(0,1,0),(19,13,24))
  [3,3]((1,0,0),(0,1,0),(19,17,24))
[3,3]((1,0,0),(0,1,0),(14,15,24))
  [3,3]((1,0,0),(0,1,0),(14,15,24))
  [3,3]((1,0,0),(0,1,0),(15,14,24))
  [3,3]((1,0,0),(1,2,0),(11,3,12))
  [3,3]((1,0,0),(1,2,0),(11,7,12))
  [3,3]((1,0,0),(2,3,0),(3,2,8))
  [3,3]((1,0,0),(2,3,0),(4,5,8))
[3,3]((1,0,0),(0,1,0),(14,19,24))
  [3,3]((1,0,0),(0,1,0),(14,19,24))
  [3,3]((1,0,0),(0,1,0),(19,14,24))
  [3,3]((1,0,0),(0,1,0),(19,22,24))
  [3,3]((1,0,0),(0,1,0),(22,19,24))
  [3,3]((1,0,0),(1,2,0),(9,7,12))
  [3,3]((1,0,0),(1,2,0),(9,11,12))
[3,3]((1,0,0),(0,1,0),(14,21,24))
  [3,3]((1,0,0),(0,1,0),(14,21,24))
  [3,3]((1,0,0),(0,1,0),(21,14,24))
  [3,3]((1,0,0),(1,2,0),(2,7,12))
  [3,3]((1,0,0),(1,2,0),(2,9,12))
  [3,3]((1,0,0),(2,3,0),(1,6,8))
  [3,3]((1,0,0),(2,3,0),(4,7,8))
[3,3]((1,0,0),(0,1,0),(14,23,24))
  [3,3]((1,0,0),(0,1,0),(14,23,24))
  [3,3]((1,0,0),(0,1,0),(23,14,24))
  [3,3]((1,0,0),(1,2,0),(7,7,12))
[3,3]((1,0,0),(0,1,0),(15,16,24))
  [3,3]((1,0,0),(0,1,0),(15,16,24))
  [3,3]((1,0,0),(0,1,0),(16,15,24))
  [3,3]((1,0,0),(1,3,0),(7,0,8))
  [3,3]((1,0,0),(1,3,0),(7,5,8))
  [3,3]((1,0,0),(7,8,0),(1,0,3))
  [3,3]((1,0,0),(7,8,0),(1,2,3))
[3,3]((1,0,0),(0,1,0),(15,20,24))
  [3,3]((1,0,0),(0,1,0),(15,20,24))
  [3,3]((1,0,0),(0,1,0),(20,15,24))
  [3,3]((1,0,0),(2,3,0),(2,5,8))
  [3,3]((1,0,0),(2,3,0),(7,4,8))
  [3,3]((1,0,0),(3,4,0),(3,5,6))
  [3,3]((1,0,0),(3,4,0),(5,3,6))
[3,3]((1,0,0),(0,1,0),(15,22,24))
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  [3,3]((1,0,0),(1,2,0),(7,11,12))
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  [3,3]((1,0,0),(1,3,0),(5,5,8))
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  [3,3]((1,0,0),(0,1,0),(15,23,24))
  [3,3]((1,0,0),(0,1,0),(23,15,24))
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  [3,3]((1,0,0),(0,1,0),(17,16,24))
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  [3,3]((1,0,0),(0,1,0),(16,21,24))
  [3,3]((1,0,0),(0,1,0),(21,16,24))
  [3,3]((1,0,0),(1,3,0),(5,0,8))
  [3,3]((1,0,0),(1,3,0),(5,7,8))
  [3,3]((1,0,0),(5,8,0),(1,0,3))
```

```
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  [3,3]((1,0,0),(0,1,0),(16,23,24))
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  [3,3]((1,0,0),(0,1,0),(17,17,24))
  [3,3]((1,0,0),(0,1,0),(17,23,24))
  [3,3]((1,0,0),(0,1,0),(23,17,24))
[3,3]((1,0,0),(0,1,0),(17,20,24))
  [3,3]((1,0,0),(0,1,0),(17,20,24))
  [3,3]((1,0,0),(0,1,0),(20,17,24))
  [3,3]((1,0,0),(1,4,0),(4,5,6))
[3,3]((1,0,0),(0,1,0),(18,19,24))
  [3,3]((1,0,0),(0,1,0),(18,19,24))
  [3,3]((1,0,0),(0,1,0),(19,18,24))
  [3,3]((1,0,0),(1,6,0),(3,3,4))
[3,3]((1,0,0),(0,1,0),(18,23,24))
  [3,3]((1,0,0),(0,1,0),(18,23,24))
  [3,3]((1,0,0),(0,1,0),(23,18,24))
  [3,3]((1,0,0),(5,6,0),(3,3,4))
[3,3]((1,0,0),(0,1,0),(19,19,24))
  [3,3]((1,0,0),(0,1,0),(19,19,24))
  [3,3]((1,0,0),(0,1,0),(19,23,24))
  [3,3]((1,0,0),(0,1,0),(23,19,24))
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  [3,3]((1,0,0),(0,1,0),(20,21,24))
  [3,3]((1,0,0),(0,1,0),(21,20,24))
  [3,3]((1,0,0),(2,3,0),(5,4,8))
  [3,3]((1,0,0),(2,3,0),(6,7,8))
  [3,3]((1,0,0),(1,4,0),(5,3,6))
  [3,3]((1,0,0),(1,4,0),(5,5,6))
[3,3]((1,0,0),(0,1,0),(20,23,24))
  [3,3]((1,0,0),(0,1,0),(20,23,24))
  [3,3]((1,0,0),(0,1,0),(23,20,24))
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  [3,3]((1,0,0),(0,1,0),(21,22,24))
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  [3,3]((1,0,0),(1,3,0),(7,7,8))
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  [3,3]((1,0,0),(0,1,0),(21,23,24))
  [3,3]((1,0,0),(0,1,0),(23,21,24))
  [3,3]((1,0,0),(2,3,0),(7,7,8))
[3,3]((1,0,0),(0,1,0),(22,23,24))
  [3,3]((1,0,0),(0,1,0),(22,23,24))
  [3,3]((1,0,0),(0,1,0),(23,22,24))
  [3,3]((1,0,0),(1,2,0),(11,11,12))
[3,3]((1,0,0),(0,1,0),(23,23,24))
  [3,3]((1,0,0),(0,1,0),(23,23,24))
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  [3,3]((1,0,0),(1,2,0),(1,0,12))
  [3,3]((1,0,0),(1,2,0),(1,2,12))
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[3,3]((1,0,0),(1,2,0),(1,4,12))
  [3,3]((1,0,0),(1,2,0),(1,4,12))
  [3,3]((1,0,0),(1,2,0),(1,10,12))
  [3,3]((1,0,0),(1,4,0),(1,2,6))
[3,3]((1,0,0),(1,2,0),(1,6,12))
  [3,3]((1,0,0),(1,2,0),(1,6,12))
  [3,3]((1,0,0),(1,2,0),(1,8,12))
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  [3,3]((1,0,0),(1,4,0),(1,4,6))
  [3,3]((1,0,0),(1,6,0),(1,0,4))
  [3,3]((1,0,0),(1,6,0),(1,2,4))
[3,3]((1,0,0),(1,2,0),(3,2,12))
  [3,3]((1,0,0),(1,2,0),(3,2,12))
  [3,3]((1,0,0),(1,2,0),(3,4,12))
  [3,3]((1,0,0),(1,2,0),(11,2,12))
  [3,3]((1,0,0),(1,2,0),(11,8,12))
  [3,3]((1,0,0),(3,4,0),(1,2,6))
  [3,3]((1,0,0),(3,4,0),(5,4,6))
[3,3]((1,0,0),(1,2,0),(3,8,12))
  [3,3]((1,0,0),(1,2,0),(3,8,12))
  [3,3]((1,0,0),(1,2,0),(3,10,12))
  [3,3]((1,0,0),(3,4,0),(1,4,6))
[3,3]((1,0,0),(1,2,0),(5,0,12))
```

```
  [3,3]((1,0,0),(1,2,0),(5,0,12))
  [3,3]((1,0,0),(1,2,0),(5,10,12))
  [3,3]((1,0,0),(5,12,0),(1,0,2))
[3,3]((1,0,0),(1,2,0),(5,2,12))
  [3,3]((1,0,0),(1,2,0),(5,2,12))
  [3,3]((1,0,0),(1,2,0),(5,8,12))
  [3,3]((1,0,0),(1,2,0),(9,2,12))
  [3,3]((1,0,0),(1,2,0),(9,4,12))
  [3,3]((1,0,0),(1,4,0),(3,2,6))
  [3,3]((1,0,0),(1,4,0),(3,4,6))
[3,3]((1,0,0),(1,2,0),(5,4,12))
  [3,3]((1,0,0),(1,2,0),(5,4,12))
  [3,3]((1,0,0),(1,2,0),(5,6,12))
  [3,3]((1,0,0),(1,4,0),(5,0,6))
  [3,3]((1,0,0),(1,4,0),(5,2,6))
  [3,3]((1,0,0),(5,6,0),(1,0,4))
  [3,3]((1,0,0),(5,6,0),(1,2,4))
[3,3]((1,0,0),(1,2,0),(7,0,12))
  [3,3]((1,0,0),(1,2,0),(7,0,12))
  [3,3]((1,0,0),(1,2,0),(7,2,12))
  [3,3]((1,0,0),(7,12,0),(1,0,2))
[3,3]((1,0,0),(1,2,0),(7,4,12))
  [3,3]((1,0,0),(1,2,0),(7,4,12))
  [3,3]((1,0,0),(1,2,0),(7,10,12))
  [3,3]((1,0,0),(3,4,0),(5,2,6))
[3,3]((1,0,0),(1,2,0),(7,6,12))
  [3,3]((1,0,0),(1,2,0),(7,6,12))
  [3,3]((1,0,0),(1,2,0),(7,8,12))
  [3,3]((1,0,0),(3,4,0),(1,0,6))
  [3,3]((1,0,0),(3,4,0),(3,4,6))
  [3,3]((1,0,0),(1,6,0),(3,0,4))
  [3,3]((1,0,0),(1,6,0),(3,2,4))
[3,3]((1,0,0),(1,2,0),(9,8,12))
  [3,3]((1,0,0),(1,2,0),(9,8,12))
  [3,3]((1,0,0),(1,2,0),(9,10,12))
  [3,3]((1,0,0),(1,4,0),(5,4,6))
[3,3]((1,0,0),(1,2,0),(11,0,12))
  [3,3]((1,0,0),(1,2,0),(11,0,12))
  [3,3]((1,0,0),(1,2,0),(11,10,12))
  [3,3]((1,0,0),(11,12,0),(1,0,2))
[3,3]((1,0,0),(1,2,0),(11,4,12))
  [3,3]((1,0,0),(1,2,0),(11,4,12))
  [3,3]((1,0,0),(1,2,0),(11,6,12))
  [3,3]((1,0,0),(3,4,0),(3,2,6))
  [3,3]((1,0,0),(3,4,0),(5,0,6))
  [3,3]((1,0,0),(5,6,0),(3,0,4))
  [3,3]((1,0,0),(5,6,0),(3,2,4))
```

24.1 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,1,24)); lvl=0; h,r-ind=24,24
  [3,3]((1,0,0),(0,1,12),(0,1,0)); lvl=1; h,r-ind=12,12; optimized-h
  [3,3]((1,0,0),(0,1,24),(0,1,12)); lvl=1; h,r-ind=12,12; optimized-h
```

24.2 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,5,24)); lvl=0; h,r-ind=24,24
  [3,3]((1,0,0),(0,2,5),(0,1,0)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,5,23),(0,2,5)); lvl=1; h,r-ind=21,21; optimized-h
  [3,3]((1,0,0),(0,5,24),(0,5,23)); lvl=1; h,r-ind=5,5; optimized-h
```

24.3 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,7,24)); lvl=0; h,r-ind=24,24
  [3,3]((1,0,0),(0,1,2),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,1,3),(0,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,3,10),(0,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,3,10),(0,7,24)); lvl=1; h,r-ind=2,2; optimized-h
```

24.4 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,11,24)); lvl=0; h,r-ind=24,24
  [3,3]((1,0,0),(0,1,0),(0,2,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,2),(0,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,2),(0,7,15)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,7,15),(0,11,24)); lvl=1; h,r-ind=3,3; optimized-h
```

24.5 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,13,24)); lvl=0; h,r-ind=24,24
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,7,12),(0,1,1)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,6,11),(0,7,12)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(0,13,24),(0,6,11)); lvl=1; h,r-ind=1,1
```

24.6 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,17,24)); lvl=0; h,r-ind=24,24
  [3,3]((1,0,0),(0,3,4),(0,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,17,24),(0,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,1),(0,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
```

24.7 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,19,24)); lvl=0; h,r-ind=24,24
  [3,3]((1,0,0),(0,1,1),(0,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,4,5),(0,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,19,24),(0,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(0,1,1)); lvl=1; h,r-ind=1,1
```

24.8 Resolved

```
[3,3]((1,0,0),(0,1,0),(0,23,24)); lvl=0; h,r-ind=24,24
  [3,3]((1,0,0),(0,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,23,24),(0,1,1)); lvl=1; h,r-ind=1,1
```

24.9 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,1,24)); lvl=0; h,r-ind=24,576
  [3,3]((1,1,12),(1,0,0),(1,1,23)); lvl=1; h,r-ind=11,11; optimized-h
  [3,3]((1,1,24),(1,0,0),(1,1,23)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,12),(1,1,23)); lvl=1; h,r-ind=11,11; optimized-h
  [3,3]((1,1,24),(0,1,0),(1,1,23)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,12),(1,0,0)); lvl=1; h,r-ind=12,144; optimized-h
```

24.10 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,2,24)); lvl=0; h,r-ind=24,288
  [4,3]((1,0,0),(1,1,12),(1,2,12),(1,2,22)); lvl=1; h,r-ind=2,2
    [4,3]((1,1,11),(1,1,9),(1,2,17),(1,2,22)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,10),(2,4,39),(1,1,9),(1,2,17)); lvl=3; h,r-ind=1,1
        [4,3]((1,1,9),(4,5,47),(1,2,17),(2,4,37)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((1,1,9),(5,7,64),(1,2,18),(1,2,17)); lvl=5; h,r-ind=1,3
            [3,3]((2,3,27),(1,2,18),(5,7,64)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,9),(2,3,27),(5,7,64)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,17),(2,3,27),(1,2,18)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,9),(1,2,17),(2,3,27)); lvl=6; h,r-ind=1,1
          [3,3]((5,7,64),(2,3,28),(1,2,18)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
```

```
          [3,3]((2,3,28),(2,4,37),(1,2,18)); lvl=5; h,r-ind=1,1
          [4,3]((1,1,9),(5,7,64),(2,3,28),(4,5,47)); lvl=5; h,r-ind=1,3
            [3,3]((5,7,64),(3,4,37),(2,3,28)); lvl=6; h,r-ind=1,1
            [3,3]((4,5,47),(3,4,37),(2,3,28)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,9),(4,5,47),(3,4,37)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,9),(5,7,64),(3,4,37)); lvl=6; h,r-ind=1,1
        [4,3]((1,1,10),(4,5,47),(1,2,19),(2,4,37)); lvl=4; h,r-ind=1,1
          [4,3]((4,6,57),(2,3,28),(2,4,37),(1,2,19)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,3,28),(3,5,47),(2,4,37)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,19),(3,5,47),(2,4,37)); lvl=6; h,r-ind=1,1
            [3,3]((4,6,57),(1,2,19),(3,5,47)); lvl=6; h,r-ind=1,1
            [3,3]((4,6,57),(2,3,28),(3,5,47)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,10),(4,6,57),(1,2,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,10),(4,6,57),(2,3,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,10),(2,3,28),(4,5,47)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,10),(2,4,39),(1,2,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,10),(1,1,9),(4,5,47)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,11),(1,1,10),(1,2,22),(2,4,39)); lvl=3; h,r-ind=1,1
        [4,3]((1,1,10),(4,5,52),(1,2,20),(2,4,41)); lvl=4; h,r-ind=1,1
          [4,3]((2,3,31),(4,6,61),(1,2,20),(2,4,41)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,5,51),(4,6,61),(1,2,20)); lvl=6; h,r-ind=1,1
            [3,3]((2,4,41),(3,5,51),(1,2,20)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,31),(2,4,41),(3,5,51)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,31),(3,5,51),(4,6,61)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,10),(2,3,31),(4,6,61)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,10),(2,3,31),(4,5,52)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,10),(4,6,61),(1,2,20)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,11),(4,5,52),(1,2,22),(2,4,41)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [3,3]((1,2,21),(2,3,31),(2,4,41)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,21),(5,7,74),(2,3,31)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,1,11),(4,5,52),(5,7,74),(2,3,31)); lvl=5; h,r-ind=1,3
            [3,3]((3,4,42),(2,3,31),(4,5,52)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,11),(3,4,42),(4,5,52)); lvl=6; h,r-ind=1,1
            [3,3]((5,7,74),(3,4,42),(2,3,31)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,11),(5,7,74),(3,4,42)); lvl=6; h,r-ind=1,1
          [4,3]((1,1,11),(1,2,22),(1,2,21),(5,7,74)); lvl=5; h,r-ind=1,3
            [3,3]((1,2,21),(2,3,32),(1,2,22)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,11),(2,3,32),(1,2,22)); lvl=6; h,r-ind=1,1
            [3,3]((5,7,74),(1,2,21),(2,3,32)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,11),(5,7,74),(2,3,32)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,10),(2,4,39),(1,2,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,11),(1,1,10),(4,5,52)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,12),(1,1,11),(1,2,22)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,12),(1,1,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,9),(1,1,6),(1,2,12),(1,2,17)); lvl=2; h,r-ind=1,1
      [4,3]((2,2,15),(2,4,29),(1,1,6),(1,2,12)); lvl=3; h,r-ind=1,1
        [4,3]((1,1,6),(1,1,7),(2,4,27),(1,2,12)); lvl=4; h,r-ind=1,1
          [3,3]((1,1,7),(1,2,13),(3,4,26)); lvl=5; h,r-ind=1,1
          [4,3]((1,1,6),(1,2,12),(1,2,13),(3,4,26)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((1,2,12),(2,3,19),(1,2,13)); lvl=6; h,r-ind=1,1
            [3,3]((3,4,26),(2,3,19),(1,2,13)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,6),(1,2,12),(2,3,19)); lvl=6; h,r-ind=1,1
            [3,3]((3,4,26),(1,1,6),(2,3,19)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,6),(1,1,7),(3,4,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,7),(2,4,27),(1,2,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,7),(1,2,14),(2,4,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,22),(1,1,7),(1,2,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,22),(2,2,15),(1,1,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,22),(2,4,29),(1,2,14)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,9),(2,2,15),(1,2,17),(2,4,29)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,22),(2,4,29),(1,2,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,8),(2,3,22),(1,2,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,8),(2,4,31),(1,2,15)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,9),(1,1,8),(1,2,17),(2,4,31)); lvl=4; h,r-ind=1,1
          [3,3]((1,1,8),(1,2,16),(2,4,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,8),(3,4,33),(1,2,16)); lvl=5; h,r-ind=1,1
          [4,3]((1,1,9),(3,4,33),(1,2,17),(1,2,16)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((1,2,17),(2,3,25),(1,2,16)); lvl=6; h,r-ind=1,1
            [3,3]((3,4,33),(2,3,25),(1,2,16)); lvl=6; h,r-ind=1,1
            [3,3]((1,1,9),(1,2,17),(2,3,25)); lvl=6; h,r-ind=1,1
            [3,3]((3,4,33),(1,1,9),(2,3,25)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,9),(1,1,8),(3,4,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,8),(2,2,15),(2,3,22)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,9),(1,1,6)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(1,1,11),(1,1,9)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,12),(1,2,22)); lvl=1; h,r-ind=10,10; optimized-h
  [3,3]((1,2,24),(0,1,0),(1,2,22)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,24),(1,1,12),(1,2,22)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,12)); lvl=1; h,r-ind=12,72; optimized-h
```

24.11 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,3,24)); lvl=0; h,r-ind=24,192
  [4,3]((1,3,21),(1,0,0),(2,3,24),(1,3,12)); lvl=1; h,r-ind=9,3
    [3,3]((2,3,12),(1,0,0),(2,3,18)); lvl=2; h,r-ind=18,6; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,3,21),(1,1,8),(1,0,0),(2,3,18)); lvl=2; h,r-ind=3,3
      [3,3]((1,1,7),(1,0,0),(1,1,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,21),(1,1,7),(1,1,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,6),(1,1,7),(1,0,0)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,6),(2,3,18),(4,6,39),(1,1,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,7),(2,3,19),(4,5,32)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,6),(2,3,18),(2,3,19),(4,5,32)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,18),(3,4,25),(2,3,19)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,32),(3,4,25),(2,3,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(2,3,18),(3,4,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,32),(1,1,6),(3,4,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,7),(1,1,6),(4,5,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,7),(4,6,39),(2,3,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,21),(4,6,39),(1,1,7)); lvl=3; h,r-ind=3,3; optimized-h
    [5,3]((1,2,15),(1,3,21),(2,6,33),(2,3,21),(2,3,18)); lvl=2; h,r-ind=3,3
      [4,3]((1,2,12),(4,9,51),(1,3,17),(2,6,33)); lvl=3; h,r-ind=1,1
        [4,3]((2,5,28),(4,10,57),(2,6,33),(1,3,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,6,33),(3,8,45),(1,3,17)); lvl=5; h,r-ind=1,1
          [3,3]((4,10,57),(3,8,45),(1,3,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,28),(2,6,33),(3,8,45)); lvl=5; h,r-ind=1,1
          [3,3]((4,10,57),(2,5,28),(3,8,45)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,12),(4,10,57),(1,3,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,12),(2,5,28),(4,10,57)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,12),(2,5,28),(4,9,51)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,37),(1,2,13),(1,2,12),(1,3,17)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,43),(1,2,13),(1,2,12)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,17),(3,7,43),(1,3,18),(1,2,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,3,18),(3,7,43),(2,5,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,12),(3,7,43),(2,5,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,17),(1,3,18),(2,5,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,12),(1,3,17),(2,5,30)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,43),(1,3,18),(1,2,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,37),(1,3,18),(1,2,13)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,14),(1,3,21),(2,6,37),(1,2,13)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,13),(2,6,37),(1,3,19)); lvl=4; h,r-ind=1,1
        [4,3]((4,9,60),(1,2,13),(2,6,39),(1,3,19)); lvl=4; h,r-ind=1,1
          [4,3]((2,6,39),(2,5,33),(4,10,65),(1,3,19)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,5,33),(4,10,65),(3,8,52)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,19),(4,10,65),(3,8,52)); lvl=6; h,r-ind=1,1
            [3,3]((2,6,39),(2,5,33),(3,8,52)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,19),(2,6,39),(3,8,52)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,13),(4,10,65),(1,3,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,13),(2,5,33),(4,10,65)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,13),(4,9,60),(2,5,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,14),(4,9,60),(1,2,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,14),(4,9,60),(1,3,21),(2,6,39)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [3,3]((2,5,33),(2,6,39),(1,3,20)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,33),(5,12,81),(1,3,20)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,2,14),(1,3,21),(5,12,81),(1,3,20)); lvl=5; h,r-ind=1,3
            [3,3]((1,3,20),(2,5,34),(1,3,21)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,14),(2,5,34),(1,3,21)); lvl=6; h,r-ind=1,1
            [3,3]((5,12,81),(1,3,20),(2,5,34)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,14),(5,12,81),(2,5,34)); lvl=6; h,r-ind=1,1
          [4,3]((1,2,14),(4,9,60),(2,5,33),(5,12,81)); lvl=5; h,r-ind=1,3
            [3,3]((2,5,33),(3,7,47),(4,9,60)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,14),(3,7,47),(4,9,60)); lvl=6; h,r-ind=1,1
            [3,3]((5,12,81),(2,5,33),(3,7,47)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,14),(5,12,81),(3,7,47)); lvl=6; h,r-ind=1,1
      [3,3]((1,2,15),(1,2,14),(1,3,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,12),(2,3,18),(4,9,51)); lvl=3; h,r-ind=3,3; optimized-h
      [4,3]((1,2,13),(1,2,12),(4,6,39),(2,3,18)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,12),(2,3,19),(2,3,18),(4,7,44)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,31),(2,3,18),(2,3,19)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,44),(3,5,31),(2,3,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,12),(4,7,44),(3,5,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,12),(3,5,31),(2,3,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,13),(1,2,12),(4,7,44)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,13),(2,3,19),(4,7,44)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,13),(2,3,19),(4,6,39)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,14),(1,2,13),(2,3,21),(4,6,39)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,13),(2,3,20),(4,6,39)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,13),(4,7,47),(2,3,20)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,14),(4,7,47),(2,3,21),(2,3,20)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,34),(2,3,21),(2,3,20)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,47),(3,5,34),(2,3,20)); lvl=5; h,r-ind=1,1
```

```
      [3,3]((1,2,14),(4,7,47),(3,5,34)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,14),(3,5,34),(2,3,21)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,14),(1,2,13),(4,7,47)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,15),(1,2,14),(2,3,21)); lvl=3; h,r-ind=1,1
[3,3]((1,2,15),(2,3,21),(1,1,8)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
[3,3]((1,2,15),(1,1,8),(2,3,24)); lvl=2; h,r-ind=1,1
[4,3]((1,3,12),(2,6,33),(2,3,12),(2,3,18)); lvl=2; h,r-ind=9,3
  [4,3]((1,2,10),(2,3,18),(1,2,11),(2,3,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,11),(5,9,48),(4,6,33),(2,3,18)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((2,3,17),(7,12,66),(3,5,27)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,2,11),(5,9,48),(7,12,66),(3,5,27)); lvl=5; h,r-ind=1,3
        [3,3]((5,9,48),(3,5,27),(4,7,38)); lvl=6; h,r-ind=1,1
        [3,3]((7,12,66),(3,5,27),(4,7,38)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,11),(7,12,66),(4,7,38)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,11),(5,9,48),(4,7,38)); lvl=6; h,r-ind=1,1
      [3,3]((2,3,17),(4,6,33),(3,5,27)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,11),(2,3,18),(2,3,17),(7,12,66)); lvl=5; h,r-ind=1,3
        [3,3]((2,3,18),(3,5,28),(2,3,17)); lvl=6; h,r-ind=1,1
        [3,3]((7,12,66),(3,5,28),(2,3,17)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,11),(2,3,18),(3,5,28)); lvl=6; h,r-ind=1,1
        [3,3]((7,12,66),(1,2,11),(3,5,28)); lvl=6; h,r-ind=1,1
    [3,3]((1,2,10),(1,2,11),(5,9,48)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,15),(1,2,10),(5,9,48),(4,6,33)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((3,5,27),(7,12,63),(1,2,10),(5,9,48)); lvl=5; h,r-ind=1,3
        [3,3]((4,7,37),(1,2,10),(7,12,63)); lvl=6; h,r-ind=1,1
        [3,3]((3,5,27),(4,7,37),(7,12,63)); lvl=6; h,r-ind=1,1
        [3,3]((5,9,48),(4,7,37),(1,2,10)); lvl=6; h,r-ind=1,1
        [3,3]((3,5,27),(5,9,48),(4,7,37)); lvl=6; h,r-ind=1,1
      [3,3]((2,3,16),(3,5,27),(7,12,63)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,3,16),(4,6,33),(3,5,27)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,15),(2,3,16),(7,12,63),(1,2,10)); lvl=5; h,r-ind=1,3
        [3,3]((3,5,26),(2,3,16),(7,12,63)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,10),(3,5,26),(7,12,63)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,15),(3,5,26),(2,3,16)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,10),(2,3,15),(3,5,26)); lvl=6; h,r-ind=1,1
  [4,3]((1,2,8),(2,3,12),(1,2,10),(2,3,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,10),(1,2,9),(2,3,15),(4,6,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,9),(2,3,14),(4,6,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,9),(4,7,33),(2,3,14)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,10),(4,7,33),(2,3,15),(2,3,14)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,15),(3,5,24),(2,3,14)); lvl=6; h,r-ind=1,1
        [3,3]((4,7,33),(3,5,24),(2,3,14)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,10),(4,7,33),(3,5,24)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,10),(2,3,15),(3,5,24)); lvl=6; h,r-ind=1,1
      [3,3]((1,2,10),(1,2,9),(4,7,33)); lvl=5; h,r-ind=1,1
    [4,3]((1,2,8),(1,2,9),(2,3,12),(4,6,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,9),(2,3,13),(4,7,30)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,8),(2,3,12),(2,3,13),(4,7,30)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,21),(2,3,12),(2,3,13)); lvl=6; h,r-ind=1,1
        [3,3]((4,7,30),(3,5,21),(2,3,13)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,8),(4,7,30),(3,5,21)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,8),(3,5,21),(2,3,12)); lvl=6; h,r-ind=1,1
      [3,3]((1,2,9),(1,2,8),(4,7,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,9),(4,6,27),(2,3,13)); lvl=5; h,r-ind=1,1
  [4,3]((1,3,12),(2,6,29),(1,2,8),(1,2,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,14),(2,6,27),(1,2,9),(1,2,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,23),(2,6,27),(1,2,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,10),(2,5,23),(1,2,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,14),(2,5,23),(2,6,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,14),(1,2,10),(2,5,23)); lvl=5; h,r-ind=1,1
    [3,3]((2,6,29),(1,3,14),(1,2,10)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,12),(2,6,27),(1,2,8),(1,2,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(1,2,9),(3,7,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,13),(1,2,9),(3,7,30)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,13),(2,6,27),(1,2,9)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,12),(1,3,13),(1,2,8),(3,7,30)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,21),(1,3,13),(3,7,30)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,8),(2,5,21),(3,7,30)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,12),(2,5,21),(1,3,13)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,8),(1,3,12),(2,5,21)); lvl=6; h,r-ind=1,1
  [3,3]((2,3,18),(1,2,11),(4,9,51)); lvl=3; h,r-ind=3,3; optimized-h
  [4,3]((2,6,33),(1,3,16),(1,2,11),(4,9,51)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,16),(4,10,55),(1,2,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,28),(4,10,55),(1,2,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,28),(4,9,51),(1,2,11)); lvl=4; h,r-ind=1,1
    [4,3]((2,6,33),(2,5,28),(1,3,16),(4,10,55)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,44),(2,5,28),(4,10,55)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,16),(3,8,44),(4,10,55)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,33),(3,8,44),(2,5,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,16),(2,6,33),(3,8,44)); lvl=5; h,r-ind=1,1
```

```
      [4,3]((2,6,29),(1,3,16),(1,2,10),(1,2,11)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,36),(1,2,11),(1,2,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,15),(3,7,36),(1,2,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,29),(1,3,15),(1,2,10)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,15),(3,7,36),(1,3,16),(1,2,11)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,26),(3,7,36),(1,2,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,16),(2,5,26),(1,2,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,15),(1,3,16),(2,5,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,15),(2,5,26),(3,7,36)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,21),(1,3,12)); lvl=1; h,r-ind=9,9; optimized-h
  [3,3]((1,3,24),(0,1,0),(1,3,21)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,3,24),(1,3,21),(2,3,24)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,3,12)); lvl=1; h,r-ind=12,48; optimized-h
```

24.12 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,4,24)); lvl=0; h,r-ind=24,144
  [4,3]((1,0,0),(1,2,12),(1,4,12),(1,4,20)); lvl=1; h,r-ind=8,4
    [5,3]((1,2,9),(1,2,10),(1,4,16),(1,3,16),(1,4,20)); lvl=2; h,r-ind=1,2
      [4,3]((1,3,15),(1,3,14),(1,4,18),(1,4,20)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,14),(3,10,48),(1,4,19),(1,4,18)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,10,48),(1,4,19),(2,7,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,18),(1,4,19),(2,7,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,14),(1,4,18),(2,7,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,14),(3,10,48),(2,7,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,15),(1,3,14),(3,10,48)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,20),(1,3,15),(3,10,48),(1,4,19)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,7,34),(1,3,15),(3,10,48)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,34),(1,4,19),(3,10,48)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,20),(2,7,34),(1,4,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,20),(2,7,34),(1,3,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,16),(1,3,15),(1,4,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,10),(1,3,16),(1,3,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,10),(3,7,33),(1,3,15),(1,3,14)); lvl=3; h,r-ind=1,2
        [3,3]((1,3,15),(2,5,24),(1,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,33),(2,5,24),(1,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,10),(1,3,15),(2,5,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,33),(1,2,10),(2,5,24)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,13),(1,3,14),(1,4,16),(1,4,18)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,14),(3,10,44),(1,4,17),(1,4,18)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,7,31),(3,10,44),(1,4,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,18),(2,7,31),(1,4,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,14),(1,4,18),(2,7,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,14),(2,7,31),(3,10,44)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,13),(1,3,14),(3,10,44)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,13),(3,10,44),(1,4,16),(1,4,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,7,30),(1,4,16),(1,4,17)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,44),(2,7,30),(1,4,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,13),(3,10,44),(2,7,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,13),(2,7,30),(1,4,16)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,9),(3,7,33),(1,3,13),(1,3,14)); lvl=3; h,r-ind=1,2
        [3,3]((1,3,13),(1,3,14),(2,5,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,33),(1,3,14),(2,5,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,9),(3,7,33),(2,5,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,9),(1,3,13),(2,5,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,10),(1,2,9),(3,7,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,9),(1,3,13),(1,4,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,12),(1,2,10),(1,3,16)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,2,12),(1,1,6),(1,2,10)); lvl=2; h,r-ind=2,2; optimized-h
    [4,3]((1,2,9),(1,4,12),(1,2,6),(1,4,16)); lvl=2; h,r-ind=2,2
      [4,3]((1,4,12),(1,3,9),(1,4,14),(1,3,11)); lvl=3; h,r-ind=2,1
        [4,3]((1,4,14),(1,4,13),(1,3,11),(1,3,10)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,11),(1,3,10),(2,7,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,13),(1,3,10),(2,7,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,14),(1,4,13),(2,7,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,14),(1,3,11),(2,7,24)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,12),(1,4,13),(1,3,9),(1,3,10)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,9),(1,3,10),(2,7,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,13),(1,3,10),(2,7,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,12),(1,3,9),(2,7,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,13),(1,4,12),(2,7,22)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,16),(1,3,12),(1,4,14),(1,3,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,12),(3,10,38),(1,3,11)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,15),(1,4,14),(3,10,38),(1,3,11)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,7,26),(1,4,14),(1,3,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,38),(2,7,26),(1,3,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,15),(3,10,38),(2,7,26)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((1,4,15),(2,7,26),(1,4,14)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,16),(1,4,15),(1,3,12),(3,10,38)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,7,27),(1,4,15),(3,10,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,12),(2,7,27),(3,10,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,16),(2,7,27),(1,4,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,12),(1,4,16),(2,7,27)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,6),(2,4,15),(1,3,9),(1,3,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,7),(1,3,10),(1,3,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(2,4,15),(1,3,11)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,6),(1,2,7),(1,3,9),(1,3,10)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,9),(1,3,10),(2,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,7),(1,3,10),(2,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(1,3,9),(2,5,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,7),(1,2,6),(2,5,16)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,9),(1,3,12),(2,4,15),(1,3,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,11),(1,3,12),(3,8,31)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,9),(1,2,8),(1,3,12),(3,8,31)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,20),(1,2,8),(3,8,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,12),(2,5,20),(3,8,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,9),(2,5,20),(1,2,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,12),(1,2,9),(2,5,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,8),(1,3,11),(3,8,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,8),(2,4,15),(1,3,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,16),(1,2,9),(1,3,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,9),(1,2,6)); lvl=2; h,r-ind=6,6; alert-r-inc; optimized-h
    [4,3]((1,0,0),(1,1,6),(1,2,9),(1,2,10)); lvl=2; h,r-ind=1,2
      [3,3]((1,1,5),(1,2,9),(1,2,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,5),(1,1,6),(1,2,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,5),(1,1,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,5),(1,2,9)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,12),(1,4,20)); lvl=1; h,r-ind=8,8; optimized-h
  [3,3]((1,4,24),(0,1,0),(1,4,20)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,4,24),(1,2,12),(1,4,20)); lvl=1; h,r-ind=8,4; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,4,12)); lvl=1; h,r-ind=12,36; optimized-h
```

24.13 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,5,24)); lvl=0; h,r-ind=24,576
  [4,3]((0,1,0),(1,5,12),(1,0,0),(1,4,10)); lvl=1; h,r-ind=2,2
    [5,3]((1,2,4),(2,7,14),(3,13,31),(1,4,10),(1,2,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,9),(2,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(3,10,23),(1,4,9)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,2,4),(1,3,7),(1,3,6),(3,10,23)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,7),(3,10,23),(2,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(3,10,23),(2,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(1,3,7),(2,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,2,4),(2,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,7),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,23),(3,11,26),(1,4,9)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((3,11,26),(3,13,31),(1,4,9),(1,4,10)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,8,19),(3,13,31),(1,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,26),(2,8,19),(1,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,19),(1,4,10),(3,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,11,26),(2,8,19),(1,4,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,7),(3,10,23),(3,11,26),(1,4,10)); lvl=3; h,r-ind=1,1
        [3,3]((3,10,23),(3,11,26),(4,14,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(3,11,26),(4,14,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(3,10,23),(4,14,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,10),(1,3,7),(4,14,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(1,2,5),(1,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,4),(1,2,5)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((3,13,31),(1,5,12),(1,4,10)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,14),(1,5,7),(3,13,31),(1,5,12)); lvl=2; h,r-ind=5,2; alert-h-inc
      [4,3]((1,5,12),(2,9,20),(2,9,18),(2,10,19)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,10),(2,10,21),(2,9,18),(2,9,19)); lvl=4; h,r-ind=1,1
          [3,3]((3,14,29),(2,9,19),(2,9,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(3,14,29),(2,9,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(3,14,29),(2,10,21)); lvl=5; h,r-ind=1,1
          [3,3]((3,14,29),(2,10,21),(2,9,19)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,12),(2,10,21),(2,9,20),(2,9,19)); lvl=4; h,r-ind=1,1
          [3,3]((5,23,50),(2,9,19),(2,9,20)); lvl=5; h,r-ind=1,1
          [4,3]((1,5,12),(5,23,50),(1,5,11),(2,9,20)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,14,31),(5,23,50),(1,5,11)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,12),(3,14,31),(1,5,11)); lvl=6; h,r-ind=1,1
            [3,3]((2,9,20),(3,14,31),(5,23,50)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,12),(2,9,20),(3,14,31)); lvl=6; h,r-ind=1,1
          [3,3]((5,23,50),(1,5,11),(2,9,19)); lvl=5; h,r-ind=1,1
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      [3,3]((1,5,11),(2,10,21),(2,9,19)); lvl=5; h,r-ind=1,1
    [3,3]((2,10,19),(1,5,10),(2,9,18)); lvl=4; h,r-ind=1,1
  [5,3]((1,4,8),(1,5,7),(1,4,7),(2,9,18),(2,10,19)); lvl=3; h,r-ind=1,1
    [4,3]((4,17,31),(1,4,7),(2,10,17),(1,5,7)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((5,22,38),(1,4,7),(1,5,7),(1,5,8)); lvl=5; h,r-ind=1,3
        [3,3]((1,4,7),(1,5,7),(2,9,15)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,8),(1,5,7),(2,9,15)); lvl=6; h,r-ind=1,1
        [3,3]((5,22,38),(1,4,7),(2,9,15)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,8),(5,22,38),(2,9,15)); lvl=6; h,r-ind=1,1
      [3,3]((2,9,16),(5,22,38),(1,5,8)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,9,16),(2,10,17),(1,5,8)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,16),(4,17,31),(5,22,38),(1,4,7)); lvl=5; h,r-ind=1,3
        [3,3]((3,13,23),(4,17,31),(1,4,7)); lvl=6; h,r-ind=1,1
        [3,3]((5,22,38),(3,13,23),(1,4,7)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,16),(5,22,38),(3,13,23)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,16),(3,13,23),(4,17,31)); lvl=6; h,r-ind=1,1
    [3,3]((1,4,8),(4,17,31),(1,4,7)); lvl=4; h,r-ind=1,1
    [5,3]((1,4,8),(4,18,35),(4,17,31),(2,10,17),(1,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,17),(1,5,9),(4,18,35)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,8),(2,9,17),(4,18,35)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,17),(1,5,9),(5,23,42),(6,27,50)); lvl=5; h,r-ind=1,1
        [3,3]((7,32,59),(5,23,42),(1,5,9)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,17),(7,32,59),(1,5,9)); lvl=6; h,r-ind=1,1
        [3,3]((6,27,50),(7,32,59),(5,23,42)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,17),(6,27,50),(7,32,59)); lvl=6; h,r-ind=1,1
      [4,3]((1,4,8),(2,9,17),(5,22,41),(6,27,50)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,17),(6,27,50),(7,31,58)); lvl=6; h,r-ind=1,1
        [3,3]((5,22,41),(6,27,50),(7,31,58)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,8),(2,9,17),(7,31,58)); lvl=6; h,r-ind=1,1
        [3,3]((5,22,41),(1,4,8),(7,31,58)); lvl=6; h,r-ind=1,1
      [4,3]((1,5,9),(5,23,42),(2,10,17),(3,14,25)); lvl=5; h,r-ind=1,1
        [3,3]((5,23,42),(4,19,34),(3,14,25)); lvl=6; h,r-ind=1,1
        [3,3]((2,10,17),(4,19,34),(3,14,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,9),(5,23,42),(4,19,34)); lvl=6; h,r-ind=1,1
        [3,3]((2,10,17),(1,5,9),(4,19,34)); lvl=6; h,r-ind=1,1
      [5,3]((5,23,42),(5,22,41),(6,27,50),(2,9,16),(3,14,25)); lvl=5; h,r-ind=1,1
        [3,3]((4,18,33),(6,27,50),(5,23,42)); lvl=6; h,r-ind=1,1
        [3,3]((4,18,33),(3,14,25),(5,23,42)); lvl=6; h,r-ind=1,1
        [3,3]((4,18,33),(3,14,25),(2,9,16)); lvl=6; h,r-ind=1,1
        [3,3]((5,22,41),(4,18,33),(2,9,16)); lvl=6; h,r-ind=1,1
        [3,3]((5,22,41),(4,18,33),(6,27,50)); lvl=6; h,r-ind=1,1
      [3,3]((2,10,17),(2,9,16),(3,14,25)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,8),(4,17,31),(5,22,41),(2,9,16)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((3,13,24),(2,9,16),(4,17,31)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,8),(3,13,24),(4,17,31)); lvl=6; h,r-ind=1,1
        [3,3]((5,22,41),(3,13,24),(2,9,16)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,8),(5,22,41),(3,13,24)); lvl=6; h,r-ind=1,1
    [4,3]((4,18,35),(2,10,19),(2,9,18),(1,5,9)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,14,27),(2,10,19),(2,9,18)); lvl=5; h,r-ind=1,1
      [3,3]((4,18,35),(3,14,27),(2,9,18)); lvl=5; h,r-ind=1,1
      [3,3]((3,14,27),(1,5,9),(2,10,19)); lvl=5; h,r-ind=1,1
      [3,3]((4,18,35),(3,14,27),(1,5,9)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,8),(4,18,35),(2,9,18)); lvl=4; h,r-ind=1,1
  [3,3]((2,7,14),(1,4,8),(1,4,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,9),(1,5,12),(2,9,20)); lvl=3; h,r-ind=1,1
  [3,3]((3,13,31),(1,4,9),(1,5,12)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,9),(1,4,8),(2,9,20),(2,9,18)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,8),(4,17,36),(2,9,19),(2,9,18)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,17,36),(3,13,27),(2,9,19)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,18),(3,13,27),(2,9,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,8),(4,17,36),(3,13,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,18),(1,4,8),(3,13,27)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,9),(1,4,8),(4,17,36)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,9),(4,17,36),(2,9,20),(2,9,19)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,20),(3,13,28),(2,9,19)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,36),(3,13,28),(2,9,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,9),(4,17,36),(3,13,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,9),(2,9,20),(3,13,28)); lvl=5; h,r-ind=1,1
  [3,3]((2,7,14),(1,4,9),(1,4,8)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,5,7),(1,5,12)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
[5,3]((1,2,3),(1,5,6),(1,2,4),(2,7,14),(1,5,7)); lvl=2; h,r-ind=3,1; alert-h-inc
  [4,3]((1,5,7),(1,4,7),(3,11,18),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,13),(1,4,7),(3,11,18)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,13),(1,4,6),(3,11,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(2,8,13),(1,4,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(2,8,13),(1,4,7)); lvl=4; h,r-ind=1,1
  [4,3]((4,14,23),(2,7,11),(3,11,18),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,11),(5,18,29)); lvl=4; h,r-ind=1,1
    [3,3]((4,14,23),(2,7,11),(5,18,29)); lvl=4; h,r-ind=1,1
    [3,3]((3,11,18),(4,14,23),(5,18,29)); lvl=4; h,r-ind=1,1
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      [3,3]((3,11,18),(1,4,6),(5,18,29)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,6),(2,7,9),(2,7,11),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,16),(2,7,11),(2,7,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,5),(5,19,27),(3,11,16),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,21),(5,19,27),(3,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,10),(4,15,21),(3,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,10),(4,15,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(4,15,21),(5,19,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,9),(2,7,10)); lvl=4; h,r-ind=1,1
      [4,3]((5,19,27),(1,4,6),(3,11,16),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,22),(1,4,6),(2,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,22),(3,11,16),(2,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((5,19,27),(4,15,22),(3,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((5,19,27),(4,15,22),(1,4,6)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,6),(1,4,5),(5,19,27),(1,4,6)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,8,11),(1,4,5),(5,19,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(2,8,11),(5,19,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(2,8,11),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(1,5,6),(2,8,11)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,5),(3,10,17),(4,14,23),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,17),(4,14,23),(5,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(4,14,23),(5,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(3,10,17),(5,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,11),(1,3,5),(5,17,28)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(2,7,9),(1,3,5),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,15),(2,7,11),(2,7,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(5,16,24),(3,10,15),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,19),(3,10,15),(5,16,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(4,13,19),(5,16,24)); lvl=5; h,r-ind=1,1
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        [3,3]((1,3,5),(2,7,11),(4,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,15),(2,7,11),(4,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,24),(3,10,15),(4,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,24),(1,3,5),(4,13,20)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,3),(1,3,4),(5,16,24),(1,3,5)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((1,3,4),(5,16,24),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(5,16,24),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(1,2,3),(2,6,9)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,6),(1,5,7),(1,4,6)); lvl=3; h,r-ind=1,1
    [5,3]((3,10,17),(1,3,6),(4,14,23),(1,4,7),(3,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,12),(4,14,23),(3,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,7,12),(3,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,7),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,17),(2,7,12),(4,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,17),(1,3,6),(2,7,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(2,7,14),(1,4,7)); lvl=3; h,r-ind=1,1
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      [3,3]((1,3,5),(3,10,17),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(3,10,17),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(2,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(1,2,4),(2,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,4),(1,3,5)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,2,4)); lvl=2; h,r-ind=2,2; optimized-h
  [4,3]((1,0,0),(0,1,0),(1,2,3),(1,5,6)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((1,2,3),(2,7,9),(1,1,1),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,2,2),(1,3,3)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,3),(1,3,4),(1,1,1),(1,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,2,2),(2,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(2,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(2,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,3),(2,4,5)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,3,3)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,5,6),(2,7,9),(1,3,3)); lvl=3; h,r-ind=3,3
      [4,3]((1,3,3),(3,11,12),(1,4,5),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(3,11,12),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,9),(2,7,8),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,9),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(3,11,12)); lvl=5; h,r-ind=1,1
      [4,3]((3,11,12),(1,4,4),(2,9,9),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(1,4,4),(2,9,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(2,8,9),(2,9,9)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,12),(2,8,9),(1,4,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(3,11,12),(2,8,9)); lvl=5; h,r-ind=1,1
      [4,3]((0,1,0),(1,5,6),(2,9,9),(1,4,5)); lvl=4; h,r-ind=1,1
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          [3,3]((1,5,5),(1,5,6),(1,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,9),(1,5,5),(1,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(1,5,5),(1,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(3,11,12),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(1,2,3),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,6),(1,5,7)); lvl=2; h,r-ind=1,1
[4,3]((2,5,23),(1,4,16),(1,0,0),(1,4,10)); lvl=1; h,r-ind=6,12
  [3,3]((1,4,10),(1,2,5),(1,2,6)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,5),(1,2,6)); lvl=2; h,r-ind=2,2; optimized-h
  [4,3]((1,4,13),(1,2,7),(1,4,10),(1,2,6)); lvl=2; h,r-ind=2,1
    [3,3]((1,3,9),(1,2,7),(1,2,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,8),(1,3,9),(1,2,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,8),(1,4,10),(2,8,23),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,9),(1,4,11),(3,10,28)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,8),(1,4,10),(1,4,11),(3,10,28)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,10),(2,7,19),(1,4,11)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,28),(2,7,19),(1,4,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(1,4,10),(2,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,28),(1,3,8),(2,7,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,9),(1,3,8),(3,10,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,9),(2,8,23),(1,4,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,10),(1,3,9),(1,2,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,13),(1,3,10),(2,8,23),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,31),(1,3,9),(1,3,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,13),(1,4,12),(3,10,31),(1,3,10)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,22),(3,10,31),(1,4,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,13),(2,7,22),(1,4,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(1,4,13),(2,7,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,10),(2,7,22),(3,10,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,12),(3,10,31),(1,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,12),(2,8,23),(1,3,9)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,7),(1,2,6)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,2,9),(1,0,0),(2,3,13)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,23),(1,2,9),(1,0,0)); lvl=2; h,r-ind=1,1
  [5,3]((1,4,16),(1,4,13),(1,3,13),(1,2,8),(1,2,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,23),(1,3,10),(1,4,13),(2,8,29)); lvl=3; h,r-ind=3,1; alert-h-inc
      [4,3]((1,3,11),(1,3,10),(1,4,13),(1,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,10),(1,4,13),(2,7,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,14),(1,4,13),(2,7,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,11),(1,3,10),(2,7,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,14),(1,3,11),(2,7,24)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,26),(1,3,11),(1,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,26),(2,8,29),(1,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,23),(2,7,26),(1,3,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,16),(1,3,12),(2,6,23),(2,8,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,38),(2,6,23),(2,7,26)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,15),(3,10,38),(5,17,65),(2,7,26)); lvl=4; h,r-ind=1,1
        [3,3]((5,17,65),(4,14,53),(3,10,38)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,26),(4,14,53),(3,10,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,15),(2,7,26),(4,14,53)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,15),(5,17,65),(4,14,53)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,15),(2,8,29),(2,7,26)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,12),(3,10,38),(5,17,65),(2,6,23)); lvl=4; h,r-ind=1,1
        [3,3]((5,17,65),(4,13,50),(3,10,38)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,23),(4,13,50),(3,10,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,12),(2,6,23),(4,13,50)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,12),(5,17,65),(4,13,50)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,16),(1,4,15),(1,3,12),(5,17,65)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,7,27),(1,4,15),(5,17,65)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,27),(1,3,12),(5,17,65)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,16),(2,7,27),(1,3,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,16),(2,7,27),(1,4,15)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,16),(1,3,13),(1,3,12)); lvl=3; h,r-ind=1,1
    [4,3]((2,6,23),(2,5,19),(1,2,7),(1,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,37),(1,2,7),(2,5,19)); lvl=4; h,r-ind=1,1
      [4,3]((2,6,23),(4,10,37),(1,3,11),(2,5,19)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,30),(1,3,11),(4,10,37)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,30),(2,5,19),(4,10,37)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,23),(3,8,30),(2,5,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,23),(3,8,30),(1,3,11)); lvl=5; h,r-ind=1,1
      [3,3]((4,10,37),(1,3,11),(1,2,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,10),(1,3,11),(1,2,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,8),(2,5,19),(1,2,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,12),(2,6,23),(1,2,8),(2,5,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,23),(2,5,19),(3,8,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,8),(2,5,19),(3,8,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,12),(2,6,23),(3,8,31)); lvl=4; h,r-ind=1,1
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      [3,3]((1,2,8),(1,3,12),(3,8,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,13),(1,3,12),(1,2,8)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,13),(1,2,8),(1,2,7)); lvl=2; h,r-ind=1,2
    [3,3]((2,3,13),(1,2,8),(1,1,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,7),(1,2,8),(1,1,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,7),(1,1,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,13),(1,1,4)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,9),(2,3,13),(1,2,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,9),(1,3,13),(1,2,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,23),(1,2,9),(1,3,13)); lvl=2; h,r-ind=1,1
[4,3]((1,5,24),(2,9,36),(2,9,42),(1,5,19)); lvl=1; h,r-ind=1,1
  [4,3]((2,10,43),(1,5,19),(2,9,39),(2,9,36)); lvl=2; h,r-ind=1,1
    [4,3]((2,10,41),(1,5,19),(2,9,36),(4,18,75)); lvl=3; h,r-ind=3,1; alert-h-inc
      [4,3]((1,5,20),(1,5,19),(2,9,37),(2,9,36)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,37),(2,9,36),(3,14,56)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,19),(2,9,36),(3,14,56)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,20),(1,5,19),(3,14,56)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,20),(2,9,37),(3,14,56)); lvl=5; h,r-ind=1,1
      [3,3]((3,14,58),(1,5,20),(2,9,37)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,58),(4,18,75),(2,9,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,41),(3,14,58),(1,5,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,21),(2,10,41),(2,9,39),(4,18,75)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,58),(2,9,38),(4,18,75)); lvl=4; h,r-ind=1,1
      [4,3]((7,33,138),(3,14,58),(4,19,79),(2,9,38)); lvl=4; h,r-ind=1,1
        [3,3]((4,19,79),(6,28,117),(3,14,58)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,38),(6,28,117),(3,14,58)); lvl=5; h,r-ind=1,1
        [3,3]((7,33,138),(4,19,79),(6,28,117)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,38),(7,33,138),(6,28,117)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,21),(7,33,138),(2,9,39),(2,9,38)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,9,39),(3,14,59),(2,9,38)); lvl=5; h,r-ind=1,1
        [3,3]((7,33,138),(3,14,59),(2,9,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,21),(2,9,39),(3,14,59)); lvl=5; h,r-ind=1,1
        [3,3]((7,33,138),(1,5,21),(3,14,59)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,41),(3,14,58),(4,19,79)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,21),(7,33,138),(2,10,41),(4,19,79)); lvl=4; h,r-ind=1,1
        [3,3]((5,24,100),(4,19,79),(7,33,138)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,21),(5,24,100),(7,33,138)); lvl=5; h,r-ind=1,1
        [3,3]((5,24,100),(2,10,41),(4,19,79)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,21),(5,24,100),(2,10,41)); lvl=5; h,r-ind=1,1
    [3,3]((2,10,43),(1,5,21),(2,9,39)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,24),(2,10,43),(2,9,42),(2,9,39)); lvl=2; h,r-ind=1,1
    [4,3]((2,10,45),(1,5,22),(4,18,81),(2,9,39)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,22),(7,33,147),(2,9,39),(2,9,40)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,9,39),(3,14,62),(2,9,40)); lvl=5; h,r-ind=1,1
        [3,3]((7,33,147),(3,14,62),(2,9,40)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,22),(2,9,39),(3,14,62)); lvl=5; h,r-ind=1,1
        [3,3]((7,33,147),(1,5,22),(3,14,62)); lvl=5; h,r-ind=1,1
      [4,3]((4,19,85),(7,33,147),(3,14,63),(2,9,40)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,40),(6,28,125),(7,33,147)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,85),(6,28,125),(7,33,147)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,85),(3,14,63),(6,28,125)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,63),(2,9,40),(6,28,125)); lvl=5; h,r-ind=1,1
      [3,3]((3,14,63),(4,18,81),(2,9,40)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,45),(4,19,85),(3,14,63)); lvl=4; h,r-ind=1,1
      [4,3]((2,10,45),(4,19,85),(1,5,22),(7,33,147)); lvl=4; h,r-ind=1,1
        [3,3]((4,19,85),(7,33,147),(5,24,107)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,22),(7,33,147),(5,24,107)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,45),(4,19,85),(5,24,107)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,22),(2,10,45),(5,24,107)); lvl=5; h,r-ind=1,1
    [3,3]((2,10,43),(1,5,22),(2,9,39)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,24),(2,10,45),(2,9,42),(4,18,81)); lvl=3; h,r-ind=3,1; alert-h-inc
      [3,3]((3,14,63),(4,18,81),(2,9,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,23),(3,14,63),(2,9,41)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,24),(1,5,23),(2,9,42),(2,9,41)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,42),(2,9,41),(3,14,65)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,23),(2,9,41),(3,14,65)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,24),(1,5,23),(3,14,65)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,24),(2,9,42),(3,14,65)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,45),(1,5,23),(3,14,63)); lvl=4; h,r-ind=1,1
[5,3]((2,5,23),(1,4,16),(1,4,19),(2,9,36),(2,9,42)); lvl=1; h,r-ind=3,1
  [4,3]((2,8,35),(1,4,18),(2,9,42),(2,9,39)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,18),(4,18,81),(2,9,42),(5,21,93)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((2,9,41),(3,13,58),(7,30,135)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,4,18),(5,21,93),(3,13,58),(7,30,135)); lvl=4; h,r-ind=1,3
        [3,3]((4,17,76),(3,13,58),(5,21,93)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,18),(4,17,76),(5,21,93)); lvl=5; h,r-ind=1,1
        [3,3]((7,30,135),(4,17,76),(3,13,58)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,18),(7,30,135),(4,17,76)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,18),(2,9,42),(2,9,41),(7,30,135)); lvl=4; h,r-ind=1,3
        [3,3]((2,9,42),(3,13,59),(2,9,41)); lvl=5; h,r-ind=1,1
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          [3,3]((7,30,135),(3,13,59),(2,9,41)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,18),(7,30,135),(3,13,59)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,18),(2,9,42),(3,13,59)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,41),(4,18,81),(3,13,58)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,35),(1,4,18),(5,21,93)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,39),(4,18,81),(5,21,93)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,8,35),(2,9,39),(5,21,93)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,4,17),(2,8,35),(2,9,36),(2,9,39)); lvl=2; h,r-ind=1,1
      [3,3]((4,18,75),(2,9,39),(5,21,90)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,8,35),(2,9,39),(5,21,90)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,4,17),(2,8,35),(5,21,90)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,17),(4,18,75),(2,9,36),(5,21,90)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,13,55),(7,30,126),(2,9,37)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,4,17),(2,9,36),(7,30,126),(2,9,37)); lvl=4; h,r-ind=1,3
          [3,3]((3,13,54),(2,9,37),(2,9,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,17),(3,13,54),(2,9,36)); lvl=5; h,r-ind=1,1
          [3,3]((7,30,126),(3,13,54),(2,9,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,17),(7,30,126),(3,13,54)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,55),(4,18,75),(2,9,37)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,17),(5,21,90),(3,13,55),(7,30,126)); lvl=4; h,r-ind=1,3
          [3,3]((4,17,72),(5,21,90),(3,13,55)); lvl=5; h,r-ind=1,1
          [3,3]((7,30,126),(4,17,72),(3,13,55)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,17),(7,30,126),(4,17,72)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,17),(4,17,72),(5,21,90)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,17),(1,4,16),(2,9,36)); lvl=2; h,r-ind=1,1
    [4,3]((3,11,48),(1,3,13),(1,4,17),(1,4,16)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,17),(1,4,16),(2,7,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,13),(1,4,16),(2,7,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,48),(1,4,17),(2,7,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,13),(3,11,48),(2,7,30)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,18),(1,4,19),(2,9,42)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,14),(1,4,18),(3,11,49),(1,4,19)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,49),(2,7,32),(1,4,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,19),(2,7,32),(1,4,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,14),(1,4,19),(2,7,32)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,14),(3,11,49),(2,7,32)); lvl=3; h,r-ind=1,1
    [4,3]((2,8,35),(1,4,18),(3,11,49),(4,15,66)); lvl=2; h,r-ind=1,1
      [3,3]((5,19,84),(3,11,49),(1,4,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,35),(5,19,84),(1,4,18)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,66),(2,8,35),(5,19,84)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,66),(5,19,84),(3,11,49)); lvl=3; h,r-ind=1,1
    [4,3]((3,11,48),(1,4,17),(2,8,35),(4,15,66)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,17),(2,8,35),(5,19,83)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,66),(2,8,35),(5,19,83)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,48),(1,4,17),(5,19,83)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,66),(3,11,48),(5,19,83)); lvl=3; h,r-ind=1,1
    [5,3]((1,3,14),(3,11,48),(1,3,13),(3,11,49),(4,15,66)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,13),(3,11,48),(2,7,31)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,66),(3,11,48),(2,7,31)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,49),(4,15,66),(2,7,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,14),(3,11,49),(2,7,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,14),(1,3,13),(2,7,31)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,14),(2,5,23),(1,3,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,24),(1,4,19),(2,9,42)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,23),(1,4,19),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,5,24),(1,4,19),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((1,4,16),(2,9,36),(1,5,19),(1,5,12),(1,4,10)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,19),(2,9,36),(2,9,35)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,16),(2,9,36),(2,9,35)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,19),(2,9,29),(2,10,31),(2,9,35)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,16),(2,10,31),(2,9,29)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,17),(1,5,16),(2,9,32),(2,9,29)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,16),(5,24,80),(2,9,29),(4,18,61)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [3,3]((2,9,30),(3,14,47),(7,33,109)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,5,16),(5,24,80),(3,14,47),(7,33,109)); lvl=5; h,r-ind=1,3
            [3,3]((5,24,80),(4,19,63),(3,14,47)); lvl=6; h,r-ind=1,1
            [3,3]((7,33,109),(4,19,63),(3,14,47)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,16),(7,33,109),(4,19,63)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,16),(5,24,80),(4,19,63)); lvl=6; h,r-ind=1,1
          [4,3]((1,5,16),(2,9,29),(2,9,30),(7,33,109)); lvl=5; h,r-ind=1,3
            [3,3]((3,14,46),(2,9,29),(2,9,30)); lvl=6; h,r-ind=1,1
            [3,3]((7,33,109),(3,14,46),(2,9,30)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,16),(7,33,109),(3,14,46)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,16),(3,14,46),(2,9,29)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,30),(4,18,61),(3,14,47)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,17),(5,24,80),(2,9,32),(4,18,61)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [3,3]((3,14,47),(4,18,61),(2,9,31)); lvl=5; h,r-ind=1,1
          [3,3]((3,14,47),(7,33,112),(2,9,31)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,5,17),(7,33,112),(2,9,32),(2,9,31)); lvl=5; h,r-ind=1,3
            [3,3]((3,14,48),(2,9,32),(2,9,31)); lvl=6; h,r-ind=1,1
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          [3,3]((7,33,112),(3,14,48),(2,9,31)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,17),(7,33,112),(3,14,48)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,17),(3,14,48),(2,9,32)); lvl=6; h,r-ind=1,1
        [4,3]((1,5,17),(5,24,80),(3,14,47),(7,33,112)); lvl=5; h,r-ind=1,3
          [3,3]((3,14,47),(4,19,64),(5,24,80)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,17),(4,19,64),(5,24,80)); lvl=6; h,r-ind=1,1
          [3,3]((7,33,112),(1,5,17),(4,19,64)); lvl=6; h,r-ind=1,1
          [3,3]((7,33,112),(3,14,47),(4,19,64)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,17),(1,5,16),(5,24,80)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,19),(1,5,17),(2,9,35),(2,9,32)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,18),(1,5,17),(4,18,67),(2,9,32)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,17),(2,9,33),(4,19,68),(2,9,32)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((4,19,68),(3,14,50),(2,9,33)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,32),(3,14,50),(2,9,33)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,17),(4,19,68),(3,14,50)); lvl=6; h,r-ind=1,1
          [3,3]((2,9,32),(1,5,17),(3,14,50)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,18),(2,9,33),(4,19,68)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,17),(1,5,18),(4,19,68)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,18),(4,18,67),(2,9,33)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,19),(1,5,18),(2,9,35),(4,18,67)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,18),(2,9,34),(4,18,67)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,71),(1,5,18),(2,9,34)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,19),(4,19,71),(2,9,35),(2,9,34)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,35),(3,14,53),(2,9,34)); lvl=6; h,r-ind=1,1
          [3,3]((4,19,71),(3,14,53),(2,9,34)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,19),(4,19,71),(3,14,53)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,19),(2,9,35),(3,14,53)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,19),(4,19,71),(1,5,18)); lvl=5; h,r-ind=1,1
[4,3]((1,4,16),(1,4,13),(2,9,29),(2,9,35)); lvl=2; h,r-ind=3,1; alert-h-inc
  [4,3]((2,8,29),(2,9,32),(1,4,13),(2,9,29)); lvl=3; h,r-ind=3,1
    [4,3]((1,4,13),(1,4,14),(2,9,29),(4,18,61)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,14),(2,9,30),(4,17,57)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,13),(2,9,29),(2,9,30),(4,17,57)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,29),(3,13,43),(2,9,30)); lvl=6; h,r-ind=1,1
        [3,3]((4,17,57),(3,13,43),(2,9,30)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,13),(4,17,57),(3,13,43)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,13),(2,9,29),(3,13,43)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,14),(1,4,13),(4,17,57)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,14),(4,18,61),(2,9,30)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,14),(2,9,32),(4,18,61)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((2,8,29),(1,4,14),(2,9,32)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,16),(2,8,29),(2,9,35),(2,9,32)); lvl=3; h,r-ind=3,1
    [3,3]((1,4,15),(4,18,67),(2,9,32)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((1,4,15),(2,8,29),(2,9,32)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,16),(1,4,15),(2,9,35),(4,18,67)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,15),(4,18,67),(2,9,34)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,15),(4,17,65),(2,9,34)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,16),(2,9,35),(4,17,65),(2,9,34)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,50),(2,9,35),(2,9,34)); lvl=6; h,r-ind=1,1
        [3,3]((4,17,65),(3,13,50),(2,9,34)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,16),(4,17,65),(3,13,50)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,16),(3,13,50),(2,9,35)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,15),(1,4,16),(4,17,65)); lvl=5; h,r-ind=1,1
[5,3]((1,4,10),(1,4,13),(2,9,29),(2,10,31),(1,5,12)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,29),(1,4,13),(4,18,57)); lvl=3; h,r-ind=1,1
  [5,3]((2,8,23),(1,5,14),(1,5,15),(1,4,13),(4,18,57)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((1,5,15),(4,18,57),(2,9,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,13),(4,18,57),(2,9,28)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,12),(2,9,27),(1,4,13),(2,9,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,27),(2,9,28),(3,13,40)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,13),(2,9,28),(3,13,40)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,12),(2,9,27),(3,13,40)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,13),(1,4,12),(3,13,40)); lvl=5; h,r-ind=1,1
    [4,3]((2,9,27),(4,19,56),(1,5,15),(2,9,28)); lvl=4; h,r-ind=1,2
      [3,3]((4,19,56),(1,5,15),(3,14,42)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,28),(1,5,15),(3,14,42)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,27),(4,19,56),(3,14,42)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,28),(2,9,27),(3,14,42)); lvl=5; h,r-ind=1,1
    [4,3]((1,4,12),(1,5,14),(2,9,27),(4,19,56)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,14),(4,19,56),(3,14,41)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,27),(4,19,56),(3,14,41)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,12),(2,9,27),(3,14,41)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,12),(1,5,14),(3,14,41)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,12),(2,8,23),(1,5,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,14),(4,19,56),(1,5,15)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,10),(2,8,23),(1,5,12),(1,5,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,11),(1,5,13),(1,5,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,11),(2,8,23),(1,5,14)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,10),(1,4,11),(1,5,12),(1,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(1,5,13),(2,9,23)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((1,4,11),(1,5,13),(2,9,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,10),(1,5,12),(2,9,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,11),(1,4,10),(2,9,23)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,15),(2,9,29),(2,10,31),(4,18,57)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,10,31),(3,14,44),(2,9,29)); lvl=4; h,r-ind=1,1
        [3,3]((4,18,57),(3,14,44),(2,9,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,15),(4,18,57),(3,14,44)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,15),(2,10,31),(3,14,44)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,19),(1,5,12)); lvl=1; h,r-ind=7,7; optimized-h
  [3,3]((1,5,24),(0,1,0),(1,5,19)); lvl=1; h,r-ind=5,5; optimized-h
```

24.14 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,6,24)); lvl=0; h,r-ind=24,96
  [4,3]((1,0,0),(1,3,12),(1,6,18),(1,6,12)); lvl=1; h,r-ind=18,6
    [4,3]((1,3,9),(1,6,15),(1,6,18),(2,9,30)); lvl=2; h,r-ind=9,3
      [4,3]((2,12,33),(2,9,27),(1,5,16),(1,6,18)); lvl=3; h,r-ind=3,3
        [3,3]((1,5,15),(1,5,16),(2,9,27)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,60),(1,5,15),(2,9,27)); lvl=4; h,r-ind=3,3; optimized-h
        [4,3]((2,12,33),(4,21,60),(1,5,15),(1,6,17)); lvl=4; h,r-ind=1,1
          [3,3]((2,11,31),(1,5,15),(4,22,63)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,17),(1,5,15),(4,22,63)); lvl=5; h,r-ind=1,1
          [4,3]((2,12,33),(1,6,17),(2,11,31),(4,22,63)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,11,31),(4,22,63),(3,17,48)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,17),(4,22,63),(3,17,48)); lvl=6; h,r-ind=1,1
            [3,3]((2,12,33),(1,6,17),(3,17,48)); lvl=6; h,r-ind=1,1
            [3,3]((2,12,33),(2,11,31),(3,17,48)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,31),(4,21,60),(1,5,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,15),(1,6,18),(1,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,15),(1,6,17),(1,6,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,15),(2,9,24),(2,12,33),(2,9,27)); lvl=3; h,r-ind=9,3
        [3,3]((1,5,14),(2,9,27),(4,18,51)); lvl=4; h,r-ind=3,3; optimized-h
        [4,3]((1,5,13),(2,9,24),(1,5,14),(4,18,51)); lvl=4; h,r-ind=1,1
          [3,3]((1,5,14),(2,9,25),(4,18,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(2,9,25),(4,19,52)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,14),(1,5,13),(4,19,52)); lvl=5; h,r-ind=1,1
          [4,3]((1,5,13),(2,9,24),(2,9,25),(4,19,52)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,14,38),(2,9,24),(2,9,25)); lvl=6; h,r-ind=1,1
            [3,3]((4,19,52),(3,14,38),(2,9,25)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,13),(4,19,52),(3,14,38)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,13),(3,14,38),(2,9,24)); lvl=6; h,r-ind=1,1
        [4,3]((1,6,15),(1,5,13),(1,6,16),(1,5,14)); lvl=4; h,r-ind=1,1
          [3,3]((1,5,13),(1,5,14),(2,11,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,16),(1,5,14),(2,11,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,15),(1,5,13),(2,11,29)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,16),(1,6,15),(2,11,29)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,60),(1,5,14),(2,9,27)); lvl=4; h,r-ind=3,3; optimized-h
        [4,3]((2,12,33),(4,21,60),(1,6,16),(1,5,14)); lvl=4; h,r-ind=1,1
          [3,3]((2,11,31),(1,5,14),(4,21,60)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,31),(4,22,61),(1,5,14)); lvl=5; h,r-ind=1,1
          [3,3]((4,22,61),(1,6,16),(1,5,14)); lvl=5; h,r-ind=1,1
          [4,3]((2,11,31),(2,12,33),(4,22,61),(1,6,16)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,12,33),(3,17,47),(1,6,16)); lvl=6; h,r-ind=1,1
            [3,3]((4,22,61),(3,17,47),(1,6,16)); lvl=6; h,r-ind=1,1
            [3,3]((2,11,31),(4,22,61),(3,17,47)); lvl=6; h,r-ind=1,1
            [3,3]((2,11,31),(2,12,33),(3,17,47)); lvl=6; h,r-ind=1,1
      [3,3]((1,3,9),(2,9,24),(2,9,27)); lvl=3; h,r-ind=9,3; optimized-h
      [3,3]((1,4,13),(2,9,27),(1,5,16)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,9,30),(1,4,13),(1,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,9),(1,4,13),(2,9,27)); lvl=3; h,r-ind=3,3; optimized-h
    [3,3]((1,3,12),(1,3,9),(2,9,30)); lvl=2; h,r-ind=9,3; optimized-h
    [3,3]((2,3,12),(1,3,12),(1,3,9)); lvl=2; h,r-ind=9,3; optimized-h
    [3,3]((1,0,0),(2,3,12),(1,3,9)); lvl=2; h,r-ind=9,3; optimized-h
    [4,3]((1,3,6),(1,6,12),(1,3,9),(1,6,15)); lvl=2; h,r-ind=9,3
      [4,3]((2,9,21),(2,12,27),(2,9,24),(1,6,15)); lvl=3; h,r-ind=9,3
        [4,3]((1,5,12),(1,5,13),(1,6,14),(1,6,15)); lvl=4; h,r-ind=1,1
          [3,3]((1,6,14),(1,6,15),(2,11,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,13),(1,6,15),(2,11,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,12),(1,6,14),(2,11,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,13),(1,5,12),(2,11,27)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,12),(1,5,13),(2,9,24),(4,18,45)); lvl=4; h,r-ind=1,1
          [4,3]((4,19,48),(1,5,13),(2,9,23),(2,9,24)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,9,23),(2,9,24),(3,14,36)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,13),(2,9,24),(3,14,36)); lvl=6; h,r-ind=1,1
            [3,3]((4,19,48),(2,9,23),(3,14,36)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,13),(4,19,48),(3,14,36)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,12),(4,19,48),(2,9,23)); lvl=5; h,r-ind=1,1
```

```
      [3,3]((4,18,45),(1,5,12),(2,9,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,12),(4,19,48),(1,5,13)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,21),(1,5,12),(4,18,45)); lvl=4; h,r-ind=3,3; optimized-h
    [4,3]((1,5,12),(4,21,48),(2,12,27),(1,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(2,11,25),(4,21,48)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,12),(4,22,51),(2,11,25)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,14),(4,22,51),(2,12,27),(2,11,25)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,39),(4,22,51),(2,11,25)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,27),(3,17,39),(2,11,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,14),(2,12,27),(3,17,39)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,14),(3,17,39),(4,22,51)); lvl=6; h,r-ind=1,1
      [3,3]((1,6,14),(1,5,12),(4,22,51)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,21),(1,5,12),(4,21,48)); lvl=4; h,r-ind=3,3; optimized-h
  [4,3]((1,3,9),(2,6,15),(2,9,21),(2,9,24)); lvl=3; h,r-ind=9,3
    [3,3]((2,9,21),(1,4,10),(4,15,36)); lvl=4; h,r-ind=3,3; optimized-h
    [4,3]((1,3,8),(2,6,15),(1,4,10),(4,15,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,10),(2,7,17),(4,15,36)); lvl=5; h,r-ind=1,1
      [3,3]((4,14,35),(1,4,10),(2,7,17)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,8),(4,14,35),(2,6,15),(2,7,17)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,14,35),(3,10,25),(2,7,17)); lvl=6; h,r-ind=1,1
        [3,3]((2,6,15),(3,10,25),(2,7,17)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,8),(2,6,15),(3,10,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,8),(4,14,35),(3,10,25)); lvl=6; h,r-ind=1,1
      [3,3]((1,3,8),(4,14,35),(1,4,10)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,9),(1,4,11),(1,3,8),(1,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(1,4,10),(2,7,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,8),(1,4,10),(2,7,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,9),(1,4,11),(2,7,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,8),(1,3,9),(2,7,19)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,21),(4,18,45),(1,4,10)); lvl=4; h,r-ind=3,3; optimized-h
    [4,3]((2,9,24),(1,4,11),(4,18,45),(1,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,44),(1,4,10),(1,4,11)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,24),(2,9,23),(4,17,44),(1,4,11)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,23),(4,17,44),(3,13,34)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,11),(4,17,44),(3,13,34)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,24),(2,9,23),(3,13,34)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,11),(2,9,24),(3,13,34)); lvl=6; h,r-ind=1,1
      [3,3]((2,9,23),(4,17,44),(1,4,10)); lvl=5; h,r-ind=1,1
      [3,3]((4,18,45),(2,9,23),(1,4,10)); lvl=5; h,r-ind=1,1
  [4,3]((1,6,12),(2,9,18),(2,9,21),(2,12,27)); lvl=3; h,r-ind=9,3
    [3,3]((1,5,11),(2,9,21),(4,18,39)); lvl=4; h,r-ind=3,3; optimized-h
    [4,3]((2,9,18),(1,5,10),(1,5,11),(4,18,39)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,40),(1,5,11),(1,5,10)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,18),(2,9,19),(4,19,40),(1,5,10)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,19),(3,14,29),(4,19,40)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,10),(3,14,29),(4,19,40)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,18),(2,9,19),(3,14,29)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,10),(2,9,18),(3,14,29)); lvl=6; h,r-ind=1,1
      [3,3]((2,9,19),(4,19,40),(1,5,11)); lvl=5; h,r-ind=1,1
      [3,3]((4,18,39),(2,9,19),(1,5,11)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,12),(1,6,13),(1,5,10),(1,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(1,5,11),(2,11,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,13),(1,5,11),(2,11,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,12),(1,5,10),(2,11,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,13),(1,6,12),(2,11,23)); lvl=5; h,r-ind=1,1
    [3,3]((4,21,48),(1,5,11),(2,9,21)); lvl=4; h,r-ind=3,3; optimized-h
    [4,3]((2,12,27),(4,21,48),(1,6,13),(1,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,25),(4,21,48),(1,5,11)); lvl=5; h,r-ind=1,1
      [3,3]((4,22,49),(2,11,25),(1,5,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,13),(4,22,49),(1,5,11)); lvl=5; h,r-ind=1,1
      [4,3]((2,12,27),(1,6,13),(4,22,49),(2,11,25)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,38),(1,6,13),(4,22,49)); lvl=6; h,r-ind=1,1
        [3,3]((3,17,38),(2,11,25),(4,22,49)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,27),(3,17,38),(2,11,25)); lvl=6; h,r-ind=1,1
        [3,3]((2,12,27),(3,17,38),(1,6,13)); lvl=6; h,r-ind=1,1
  [4,3]((1,3,6),(2,6,15),(2,9,18),(2,9,21)); lvl=3; h,r-ind=9,3
    [4,3]((1,4,9),(1,4,8),(4,18,39),(2,9,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,8),(4,17,36),(2,9,19),(2,9,18)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,17,36),(3,13,27),(2,9,19)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,18),(3,13,27),(2,9,19)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,8),(4,17,36),(3,13,27)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,18),(1,4,8),(3,13,27)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,9),(1,4,8),(4,17,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,9),(4,17,36),(2,9,19)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,9),(4,18,39),(2,9,19)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,21),(1,4,9),(4,18,39)); lvl=4; h,r-ind=3,3; optimized-h
    [3,3]((4,15,36),(2,9,21),(1,4,9)); lvl=4; h,r-ind=3,3; optimized-h
    [4,3]((1,3,7),(1,3,6),(1,4,9),(1,4,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,9),(1,4,8),(2,7,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,8),(2,7,15)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((1,3,7),(1,4,9),(2,7,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,6),(1,3,7),(2,7,15)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,7),(4,15,36),(2,6,15),(1,4,9)); lvl=4; h,r-ind=1,1
          [3,3]((1,4,9),(2,7,17),(4,15,36)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,9),(4,14,33),(2,7,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,9),(1,3,7),(4,14,33)); lvl=5; h,r-ind=1,1
          [4,3]((1,3,7),(4,14,33),(2,7,17),(2,6,15)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,10,24),(4,14,33),(2,7,17)); lvl=6; h,r-ind=1,1
            [3,3]((2,6,15),(3,10,24),(2,7,17)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,7),(2,6,15),(3,10,24)); lvl=6; h,r-ind=1,1
            [3,3]((1,3,7),(3,10,24),(4,14,33)); lvl=6; h,r-ind=1,1
    [3,3]((1,0,0),(1,3,6),(1,3,9)); lvl=2; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,6,18),(1,6,12)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((1,6,24),(0,1,0),(1,6,18)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,6,12)); lvl=1; h,r-ind=12,24; optimized-h
  [3,3]((1,6,24),(1,3,12),(1,6,18)); lvl=1; h,r-ind=18,6; optimized-h
```

24.15 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,7,24)); lvl=0; h,r-ind=24,576
  [5,3]((1,3,6),(1,7,17),(1,5,15),(1,3,9),(1,7,12)); lvl=1; h,r-ind=2,2
    [3,3]((1,3,6),(1,5,10),(1,5,9)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,7,12),(1,5,10),(1,5,9)); lvl=2; h,r-ind=2,2; optimized-h
    [4,3]((2,10,23),(2,6,15),(1,3,6),(1,5,10)); lvl=2; h,r-ind=6,1; alert-h-inc
      [4,3]((1,3,6),(1,4,8),(1,4,9),(1,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,8),(1,4,9),(2,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(1,4,9),(2,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,4,8),(2,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(1,3,6),(2,7,15)); lvl=4; h,r-ind=1,1
      [4,3]((2,8,19),(2,6,15),(1,4,9),(1,3,7)); lvl=3; h,r-ind=1,1
        [4,3]((2,6,15),(2,7,17),(1,3,7),(4,14,33)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,10,24),(4,14,33),(2,7,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,6,15),(3,10,24),(2,7,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(2,6,15),(3,10,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(3,10,24),(4,14,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,9),(1,3,7),(4,14,33)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,9),(2,8,19),(2,7,17),(4,14,33)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,11,26),(2,8,19),(2,7,17)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,33),(3,11,26),(2,7,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,9),(4,14,33),(3,11,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,9),(3,11,26),(2,8,19)); lvl=5; h,r-ind=1,1
      [4,3]((2,10,23),(1,5,11),(2,8,19),(1,4,9)); lvl=3; h,r-ind=1,1
        [4,3]((2,8,19),(2,9,21),(1,4,9),(4,18,41)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,9,21),(4,18,41),(3,13,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,9),(4,18,41),(3,13,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,19),(2,9,21),(3,13,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,9),(2,8,19),(3,13,30)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,11),(1,4,9),(4,18,41)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,11),(2,10,23),(2,9,21),(4,18,41)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,14,32),(2,10,23),(2,9,21)); lvl=5; h,r-ind=1,1
          [3,3]((4,18,41),(3,14,32),(2,9,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(4,18,41),(3,14,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,11),(3,14,32),(2,10,23)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,11),(1,5,10),(1,4,8),(1,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,10),(1,4,8),(2,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(1,4,8),(2,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,11),(1,5,10),(2,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,9),(1,5,11),(2,9,19)); lvl=4; h,r-ind=1,1
    [4,3]((2,14,29),(1,7,12),(2,10,23),(1,5,10)); lvl=2; h,r-ind=2,1
      [4,3]((1,6,11),(3,18,37),(1,5,11),(1,5,10)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,12),(1,5,11),(3,18,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(3,16,33),(1,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,16,33),(1,5,10),(1,5,11)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,11),(1,6,12),(3,16,33),(1,5,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,12),(3,16,33),(2,11,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(3,16,33),(2,11,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(1,6,12),(2,11,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,10),(1,6,11),(2,11,22)); lvl=5; h,r-ind=1,1
      [5,3]((1,7,12),(2,14,27),(2,13,26),(1,6,11),(3,18,37)); lvl=3; h,r-ind=1,1
        [4,3]((1,7,12),(1,7,13),(1,6,12),(1,6,11)); lvl=4; h,r-ind=1,1
          [3,3]((1,7,13),(1,6,12),(2,13,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(1,6,12),(2,13,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,12),(1,7,13),(2,13,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,11),(1,7,12),(2,13,24)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,13),(3,20,39),(6,39,77),(1,6,12)); lvl=4; h,r-ind=1,1
          [3,3]((4,26,51),(3,20,39),(6,39,77)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,12),(4,26,51),(6,39,77)); lvl=5; h,r-ind=1,1
```

```
      [3,3]((1,7,13),(4,26,51),(3,20,39)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,12),(1,7,13),(4,26,51)); lvl=5; h,r-ind=1,1
    [4,3]((6,39,77),(2,13,26),(3,18,37),(1,6,12)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((2,13,26),(3,19,38),(3,18,37)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,12),(3,19,38),(3,18,37)); lvl=5; h,r-ind=1,1
      [3,3]((6,39,77),(1,6,12),(3,19,38)); lvl=5; h,r-ind=1,1
      [3,3]((6,39,77),(2,13,26),(3,19,38)); lvl=5; h,r-ind=1,1
    [4,3]((3,20,39),(6,39,77),(2,14,27),(2,13,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,26),(6,39,77),(5,33,65)); lvl=5; h,r-ind=1,1
      [3,3]((3,20,39),(6,39,77),(5,33,65)); lvl=5; h,r-ind=1,1
      [3,3]((3,20,39),(2,14,27),(5,33,65)); lvl=5; h,r-ind=1,1
      [3,3]((2,14,27),(2,13,26),(5,33,65)); lvl=5; h,r-ind=1,1
    [3,3]((1,7,13),(3,20,39),(2,14,27)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,13),(1,7,14),(2,13,26),(3,18,37)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,14),(2,13,26),(5,32,65)); lvl=4; h,r-ind=1,1
    [4,3]((3,18,37),(2,12,25),(2,13,26),(5,32,65)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,25,51),(2,12,25),(5,32,65)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,26),(4,25,51),(5,32,65)); lvl=5; h,r-ind=1,1
      [3,3]((3,18,37),(4,25,51),(2,12,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,26),(3,18,37),(4,25,51)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,13),(2,12,25),(1,7,14),(5,32,65)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,19,39),(5,32,65),(2,12,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,13),(3,19,39),(2,12,25)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,39),(1,7,14),(5,32,65)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,13),(3,19,39),(1,7,14)); lvl=5; h,r-ind=1,1
  [3,3]((1,6,13),(2,14,29),(1,7,14)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,14),(2,14,27),(2,13,26)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,13),(3,18,37),(1,5,11)); lvl=3; h,r-ind=2,2; alert-r-inc; optimized-h
  [3,3]((1,6,13),(2,10,23),(1,5,11)); lvl=3; h,r-ind=1,1
[5,3]((1,4,12),(1,5,13),(2,10,23),(1,3,9),(2,6,15)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,10),(2,8,19),(1,5,12),(2,10,23)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,12),(4,18,43),(2,10,23),(2,9,21)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,14,33),(4,18,43),(2,9,21)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,23),(3,14,33),(2,9,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,12),(2,10,23),(3,14,33)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,12),(3,14,33),(4,18,43)); lvl=5; h,r-ind=1,1
    [4,3]((2,8,19),(1,4,10),(4,18,43),(2,9,21)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,13,31),(1,4,10),(4,18,43)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,21),(3,13,31),(4,18,43)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,19),(2,9,21),(3,13,31)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,19),(3,13,31),(1,4,10)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,10),(1,5,12),(4,18,43)); lvl=4; h,r-ind=1,1
  [4,3]((1,4,10),(2,8,19),(1,3,8),(2,6,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,8),(4,14,35),(2,7,17),(2,6,15)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((4,14,35),(3,10,25),(2,7,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,15),(3,10,25),(2,7,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,8),(2,6,15),(3,10,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,8),(4,14,35),(3,10,25)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,10),(1,3,8),(4,14,35)); lvl=4; h,r-ind=1,1
    [4,3]((2,8,19),(1,4,10),(4,14,35),(2,7,17)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,11,27),(4,14,35),(1,4,10)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,19),(3,11,27),(1,4,10)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,17),(2,8,19),(3,11,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,17),(3,11,27),(4,14,35)); lvl=5; h,r-ind=1,1
  [3,3]((2,8,21),(1,4,10),(1,3,8)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,9),(1,4,11),(2,8,21),(1,3,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,11),(2,8,21),(2,7,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,8),(2,8,21),(2,7,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,9),(1,4,11),(2,7,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,8),(1,3,9),(2,7,19)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,12),(1,3,9),(1,4,11)); lvl=3; h,r-ind=1,1
  [3,3]((2,8,21),(1,4,10),(1,5,12)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,13),(1,4,11),(2,8,21),(1,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,23),(1,4,11),(2,8,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,12),(2,9,23),(2,8,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,13),(2,9,23),(1,4,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,12),(1,5,13),(2,9,23)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,12),(1,5,13),(1,4,11)); lvl=3; h,r-ind=1,1
[3,3]((1,5,15),(1,4,12),(1,5,13)); lvl=2; h,r-ind=2,2; optimized-h
[5,3]((1,7,17),(2,14,29),(1,6,16),(1,5,13),(2,10,23)); lvl=2; h,r-ind=1,1
  [3,3]((1,7,15),(1,6,13),(2,14,29)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,15),(1,6,14),(1,6,13)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,14),(1,5,12),(1,6,13)); lvl=3; h,r-ind=1,1
  [3,3]((2,10,23),(1,5,12),(1,6,13)); lvl=3; h,r-ind=1,1
  [4,3]((1,6,15),(1,6,14),(1,5,13),(1,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,13),(1,5,12),(2,11,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,14),(1,5,12),(2,11,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,15),(1,6,14),(2,11,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,15),(1,5,13),(2,11,27)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,15),(1,6,16),(1,5,13)); lvl=3; h,r-ind=1,1
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    [3,3]((1,7,15),(2,14,31),(1,6,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,17),(1,6,15),(2,14,31),(1,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,14),(1,6,15),(3,19,45)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,17),(1,7,16),(1,6,15),(3,19,45)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,7,16),(3,19,45),(2,13,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,15),(3,19,45),(2,13,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,17),(1,7,16),(2,13,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,15),(1,7,17),(2,13,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,16),(1,6,14),(3,19,45)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,16),(2,14,31),(1,6,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,17),(1,6,15),(1,6,16)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,15),(1,6,16),(1,5,13)); lvl=2; h,r-ind=2,2; optimized-h
[4,3]((0,1,0),(1,0,0),(1,3,6),(1,7,12)); lvl=1; h,r-ind=6,6
  [5,3]((1,3,6),(1,5,9),(1,5,8),(2,3,6),(2,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(2,5,8),(1,4,6),(2,7,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,6),(4,13,20),(2,6,9),(2,7,10)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,13,20),(3,10,15),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,10),(3,10,15),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(2,7,10),(3,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(4,13,20),(3,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(1,4,6),(4,13,20)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,5),(4,13,20),(2,5,8),(2,6,9)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,9,14),(4,13,20),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,8),(3,9,14),(2,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(2,5,8),(3,9,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(3,9,14),(4,13,20)); lvl=5; h,r-ind=1,1
    [3,3]((2,7,12),(1,3,5),(1,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,12),(1,4,7),(1,5,8),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,13),(1,4,7),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,8,13),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,12),(2,8,13),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,12),(2,8,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,9),(1,4,7),(1,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,6),(1,2,4),(2,7,12),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,11),(1,2,4),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,11),(1,4,7),(2,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,6,11),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,6,11),(1,2,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,9),(1,3,6),(1,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,7,12),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(2,3,6),(1,3,5),(2,5,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,5),(4,9,16),(2,4,7),(2,5,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,9,16),(3,7,12),(2,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,8),(3,7,12),(2,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(4,9,16),(3,7,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,8),(1,3,5),(3,7,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,5),(4,9,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,4),(4,9,16),(2,3,6),(2,4,7)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,6,11),(4,9,16),(2,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,6),(3,6,11),(2,4,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(2,3,6),(3,6,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(3,6,11),(4,9,16)); lvl=5; h,r-ind=1,1
  [4,3]((1,5,5),(1,0,0),(2,3,6),(2,7,10)); lvl=2; h,r-ind=3,1
    [4,3]((1,1,2),(2,5,7),(2,3,6),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,8),(2,4,7)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,6),(1,1,2),(1,2,3),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,9),(1,2,3),(1,1,2)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,6),(3,5,9),(1,1,2)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,9),(2,4,7),(1,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,6),(3,5,9),(2,4,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(2,5,8)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,5),(2,7,10),(2,5,7),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(1,3,4),(2,5,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,5),(2,7,10),(2,6,9),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(2,6,9),(3,10,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(2,6,9),(3,10,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,10),(3,10,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,5),(3,10,14)); lvl=5; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,2),(2,5,5),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(1,2,3),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(1,2,3)); lvl=4; h,r-ind=1,1
      [4,3]((1,0,0),(2,3,3),(1,2,3),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,3,3),(1,1,1)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,6),(1,2,3),(1,1,1)); lvl=5; h,r-ind=1,1
        [4,3]((1,0,0),(1,1,2),(3,4,6),(1,1,1)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,2,3),(1,1,2),(3,4,6)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(3,4,6)); lvl=6; h,r-ind=1,1
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          [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(1,0,0),(2,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,2),(3,4,6),(1,2,3)); lvl=5; h,r-ind=1,1
  [4,3]((1,4,5),(1,5,5),(2,5,5),(2,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,3),(2,7,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,5),(1,3,4),(1,5,5),(2,7,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,4),(3,11,13)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,5),(1,5,5),(1,4,4),(3,11,13)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,8,9),(1,5,5),(1,4,4)); lvl=6; h,r-ind=1,1
        [3,3]((3,11,13),(2,8,9),(1,4,4)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(3,11,13),(2,8,9)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(2,8,9),(1,5,5)); lvl=6; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,4),(3,11,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,7),(1,4,4)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,6),(1,3,3)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,6),(2,5,5),(1,3,3)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,6),(2,5,7)); lvl=4; h,r-ind=1,1
[3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,5,5),(1,0,0)); lvl=2; h,r-ind=5,5; optimized-h
[5,3]((1,5,5),(1,6,6),(1,5,8),(1,6,9),(2,7,10)); lvl=2; h,r-ind=3,1
  [4,3]((1,5,6),(1,6,6),(2,12,15),(2,10,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,12,15),(2,11,14),(1,6,7)); lvl=4; h,r-ind=1,1
    [4,3]((5,27,33),(3,16,20),(2,11,14),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,20),(2,11,14),(4,22,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,14),(4,22,27)); lvl=5; h,r-ind=1,1
      [3,3]((5,27,33),(3,16,20),(4,22,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,7),(5,27,33),(4,22,27)); lvl=5; h,r-ind=1,1
    [4,3]((1,5,6),(5,27,33),(1,6,6),(1,6,7)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((2,11,13),(1,6,7),(1,6,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,6),(2,11,13),(1,6,6)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,13),(5,27,33),(1,6,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,6),(2,11,13),(5,27,33)); lvl=5; h,r-ind=1,1
    [3,3]((2,10,13),(3,16,20),(2,11,14)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,6),(5,27,33),(2,10,13),(3,16,20)); lvl=4; h,r-ind=1,1
      [3,3]((5,27,33),(4,21,26),(3,16,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,13),(4,21,26),(3,16,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,6),(2,10,13),(4,21,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,6),(5,27,33),(4,21,26)); lvl=5; h,r-ind=1,1
  [4,3]((1,6,9),(1,5,7),(2,12,15),(2,10,13)); lvl=3; h,r-ind=1,1
    [4,3]((5,27,36),(3,16,21),(2,10,13),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((4,21,28),(2,10,13),(3,16,21)); lvl=5; h,r-ind=1,1
      [3,3]((5,27,36),(4,21,28),(3,16,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(5,27,36),(4,21,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(4,21,28),(2,10,13)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,9),(1,6,8),(5,27,36),(1,5,7)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((1,6,8),(2,11,15),(5,27,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,15),(5,27,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(1,5,7),(2,11,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(1,6,8),(2,11,15)); lvl=5; h,r-ind=1,1
    [4,3]((2,11,14),(1,6,8),(5,27,36),(3,16,21)); lvl=4; h,r-ind=1,1
      [3,3]((4,22,29),(5,27,36),(1,6,8)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,14),(4,22,29),(1,6,8)); lvl=5; h,r-ind=1,1
      [3,3]((3,16,21),(4,22,29),(5,27,36)); lvl=5; h,r-ind=1,1
      [3,3]((3,16,21),(2,11,14),(4,22,29)); lvl=5; h,r-ind=1,1
    [3,3]((2,11,14),(2,12,15),(1,6,8)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,14),(3,16,21),(2,10,13)); lvl=4; h,r-ind=1,1
  [4,3]((4,19,25),(1,5,7),(3,14,19),(2,10,13)); lvl=3; h,r-ind=1,1
    [3,3]((5,24,32),(3,14,19),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,13),(5,24,32),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((4,19,25),(2,10,13),(5,24,32)); lvl=4; h,r-ind=1,1
    [3,3]((4,19,25),(5,24,32),(3,14,19)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,9),(1,5,7),(1,5,8)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,6),(1,5,7),(3,14,19),(1,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,13),(3,14,19),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(2,9,13),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(1,5,8),(2,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(2,9,13),(3,14,19)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,6),(3,14,18),(4,19,25),(2,10,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,18),(4,19,25),(5,24,31)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,13),(4,19,25),(5,24,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(3,14,18),(5,24,31)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,13),(1,5,6),(5,24,31)); lvl=4; h,r-ind=1,1
  [5,3]((1,4,5),(3,14,18),(4,19,25),(1,4,6),(3,14,19)); lvl=3; h,r-ind=1,1
    [3,3]((4,19,25),(2,9,12),(3,14,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(2,9,12),(3,14,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(1,4,6),(2,9,12)); lvl=4; h,r-ind=1,1
    [3,3]((3,14,18),(4,19,25),(2,9,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,5),(3,14,18),(2,9,12)); lvl=4; h,r-ind=1,1
  [3,3]((1,4,5),(2,7,10),(1,4,6)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,5),(1,5,6),(1,4,5),(3,14,18)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,5,6),(3,14,18),(2,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(3,14,18),(2,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(1,5,6),(2,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,5),(2,9,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,5),(1,5,6),(1,6,6)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,7,12),(1,6,6),(1,6,9)); lvl=2; h,r-ind=3,3
    [4,3]((1,7,11),(1,7,9),(1,6,9),(2,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(2,12,15),(1,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(1,7,10),(1,6,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,10),(1,7,11),(1,6,9),(1,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,11),(1,6,9),(2,13,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(1,6,9),(2,13,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(1,7,11),(2,13,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(1,7,10),(2,13,19)); lvl=5; h,r-ind=1,1
    [4,3]((0,1,0),(1,6,6),(1,7,9),(2,12,15)); lvl=3; h,r-ind=3,3
      [4,3]((1,7,9),(3,20,24),(2,12,15),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,16),(2,12,15),(1,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((3,20,24),(2,13,16),(1,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(3,20,24),(2,13,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(2,13,16),(2,12,15)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,8),(3,20,24),(2,14,15),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(2,13,15),(3,20,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(2,13,15),(3,20,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,15),(1,7,8),(2,13,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,15),(1,6,7),(2,13,15)); lvl=5; h,r-ind=1,1
      [4,3]((0,1,0),(2,14,15),(1,6,6),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,7),(1,6,7),(1,6,6)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(1,7,7),(1,6,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,15),(0,1,0),(1,7,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,15),(1,7,7),(1,6,7)); lvl=5; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,8),(2,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(1,7,8),(3,20,24)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,9),(1,7,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,12),(1,7,11),(1,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,7,11),(1,7,9)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((1,7,12),(0,1,0),(1,7,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,7,12),(1,5,9),(1,5,8),(1,6,9)); lvl=2; h,r-ind=1,2
    [3,3]((1,6,10),(1,5,9),(1,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,9),(1,6,10),(1,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,12),(1,6,10),(1,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,9),(1,7,12),(1,6,10)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,7,17),(1,7,12)); lvl=1; h,r-ind=5,5; optimized-h
[3,3]((1,7,24),(0,1,0),(1,7,17)); lvl=1; h,r-ind=7,7; optimized-h
[3,3]((1,0,0),(1,3,6),(1,3,9)); lvl=1; h,r-ind=9,3; optimized-h
[4,3]((1,7,24),(1,7,17),(1,5,15),(1,6,20)); lvl=1; h,r-ind=1,1
  [3,3]((1,6,18),(1,5,15),(1,6,19)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,20),(1,5,15),(1,6,19)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,20),(1,7,24),(1,6,19)); lvl=2; h,r-ind=1,1
  [4,3]((1,7,24),(2,14,41),(1,6,18),(1,6,19)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,18),(1,7,21),(1,7,22),(5,31,96)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,22),(1,7,21),(2,13,40)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,18),(1,7,21),(2,13,40)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,18),(6,38,117),(2,13,40)); lvl=4; h,r-ind=1,1
      [4,3]((3,19,59),(6,38,117),(1,7,22),(2,13,40)); lvl=4; h,r-ind=1,1
        [3,3]((5,32,99),(6,38,117),(2,13,40)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,22),(5,32,99),(2,13,40)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,59),(1,7,22),(5,32,99)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,59),(5,32,99),(6,38,117)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,18),(3,19,59),(5,31,96),(6,38,117)); lvl=4; h,r-ind=1,1
        [3,3]((4,25,77),(5,31,96),(3,19,59)); lvl=5; h,r-ind=1,1
        [3,3]((6,38,117),(4,25,77),(3,19,59)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,18),(6,38,117),(4,25,77)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,18),(4,25,77),(5,31,96)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,24),(1,6,19),(1,7,22),(5,31,96)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((3,19,60),(3,19,59),(5,31,96),(1,6,19)); lvl=4; h,r-ind=1,2
        [3,3]((3,19,59),(5,31,96),(4,25,78)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,19),(5,31,96),(4,25,78)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,60),(3,19,59),(4,25,78)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,19),(3,19,60),(4,25,78)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,24),(3,19,60),(1,7,23),(1,6,19)); lvl=4; h,r-ind=1,2
        [3,3]((1,7,23),(3,19,60),(2,13,42)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,19),(3,19,60),(2,13,42)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,24),(1,6,19),(2,13,42)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,24),(1,7,23),(2,13,42)); lvl=5; h,r-ind=1,1
      [3,3]((3,19,60),(1,7,22),(3,19,59)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((3,19,60),(1,7,23),(1,7,22)); lvl=4; h,r-ind=2,2; optimized-h
    [3,3]((1,6,19),(1,6,18),(5,31,96)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,18),(2,14,41),(1,7,21)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,18),(1,6,16),(1,5,15)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,14,41),(1,6,18),(1,6,16),(1,7,17)); lvl=2; h,r-ind=1,1
```

```
      [4,3]((1,7,19),(1,7,17),(1,6,16),(1,6,17)); lvl=3; h,r-ind=1,1
        [4,3]((1,7,17),(1,7,18),(1,6,16),(3,19,51)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,7,18),(3,19,51),(2,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,16),(3,19,51),(2,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,17),(1,7,18),(2,13,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,16),(1,7,17),(2,13,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,17),(1,6,16),(3,19,51)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,19),(1,6,17),(1,7,18),(3,19,51)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,17),(3,19,51),(2,13,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,18),(3,19,51),(2,13,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,19),(1,7,18),(2,13,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,19),(1,6,17),(2,13,35)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,20),(1,7,19),(1,6,18),(1,6,17)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,18),(1,6,17),(2,13,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,19),(1,6,17),(2,13,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,20),(1,7,19),(2,13,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,20),(1,6,18),(2,13,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,41),(1,7,20),(1,6,18)); lvl=3; h,r-ind=1,1
  [5,3]((1,5,15),(1,3,10),(1,3,9),(1,5,17),(1,6,20)); lvl=1; h,r-ind=1,2
    [4,3]((2,9,29),(1,4,13),(1,3,9),(1,4,12)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,25),(1,4,13),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,12),(2,8,25),(1,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,29),(2,8,25),(1,4,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,12),(2,9,29),(2,8,25)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,29),(1,5,16),(1,5,15),(1,4,12)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,28),(1,5,15),(1,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,29),(2,9,28),(1,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,12),(2,9,29),(2,9,28)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,12),(2,9,28),(1,5,15)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,29),(2,10,33),(1,6,20),(1,5,16)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,20),(2,10,33),(3,15,49)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,29),(2,10,33),(3,15,49)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,16),(2,9,29),(3,15,49)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,16),(1,6,20),(3,15,49)); lvl=3; h,r-ind=1,1
    [3,3]((2,10,33),(1,5,17),(1,6,20)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,20),(1,5,16),(1,5,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,10),(1,4,13),(1,3,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,29),(1,4,13),(2,10,33),(1,5,17)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,17),(2,10,33),(3,14,46)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,29),(2,10,33),(3,14,46)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,13),(2,9,29),(3,14,46)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,13),(1,5,17),(3,14,46)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,10),(1,4,13),(1,5,17)); lvl=2; h,r-ind=1,1
  [3,3]((1,7,24),(1,5,17),(1,6,20)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,10),(1,5,17)); lvl=1; h,r-ind=1,1
  [3,3]((1,7,24),(1,0,0),(1,5,17)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,10),(1,3,9)); lvl=1; h,r-ind=3,3; optimized-h
```

24.16 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,8,24)); lvl=0; h,r-ind=24,72
  [4,3]((1,0,0),(1,4,12),(1,8,16),(1,8,12)); lvl=1; h,r-ind=16,8
    [4,3]((1,4,8),(1,8,14),(1,8,16),(1,6,14)); lvl=2; h,r-ind=4,4
      [4,3]((1,6,12),(1,7,15),(1,8,16),(1,8,15)); lvl=3; h,r-ind=1,2
        [3,3]((1,7,14),(1,8,16),(1,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(1,7,14),(1,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,14),(1,8,15),(1,8,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(1,7,14),(1,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(1,8,14),(1,8,15)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((1,6,12),(1,8,14),(1,6,11)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((1,4,8),(1,6,12),(1,6,11)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((1,6,12),(1,6,14),(1,7,15)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((1,5,11),(1,6,12),(1,6,14)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((1,4,8),(1,5,11),(1,6,12)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((1,4,8),(1,4,12),(1,6,14)); lvl=2; h,r-ind=8,4; optimized-h
    [3,3]((1,4,8),(1,2,6),(1,4,12)); lvl=2; h,r-ind=8,4; optimized-h
    [3,3]((1,0,0),(1,4,8),(1,2,6)); lvl=2; h,r-ind=8,4; optimized-h
    [3,3]((1,4,8),(1,8,12),(1,8,14)); lvl=2; h,r-ind=8,4; optimized-h
    [3,3]((1,4,6),(1,4,8),(1,8,12)); lvl=2; h,r-ind=8,4; optimized-h
    [3,3]((1,0,0),(1,4,6),(1,4,8)); lvl=2; h,r-ind=8,4; optimized-h
  [3,3]((0,1,0),(1,8,16),(1,8,12)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,8,12)); lvl=1; h,r-ind=12,36; optimized-h
  [3,3]((1,8,24),(1,4,12),(1,8,16)); lvl=1; h,r-ind=32,8; alert-h-inc
    [4,3]((1,8,24),(1,8,20),(1,6,18),(1,6,16)); lvl=2; h,r-ind=4,2
      [4,3]((1,7,21),(2,14,39),(1,6,17),(1,6,18)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,17),(1,7,20),(2,14,39)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,17),(1,7,20),(3,19,55)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((1,6,18),(1,6,17),(3,19,55)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,18),(1,7,21),(1,7,20),(3,19,55)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,13,38),(1,7,21),(1,7,20)); lvl=5; h,r-ind=1,1
          [3,3]((3,19,55),(2,13,38),(1,7,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,18),(3,19,55),(2,13,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,18),(2,13,38),(1,7,21)); lvl=5; h,r-ind=1,1
      [4,3]((2,14,39),(1,7,18),(1,6,16),(1,6,17)); lvl=3; h,r-ind=1,1
        [4,3]((1,7,19),(3,19,52),(1,7,18),(1,6,16)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,13,35),(3,19,52),(1,6,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,18),(2,13,35),(1,6,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,19),(1,7,18),(2,13,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,19),(2,13,35),(3,19,52)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,17),(3,19,52),(1,6,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,17),(1,7,19),(3,19,52)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,17),(2,14,39),(1,7,19)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,22),(2,14,39),(1,8,20),(1,7,18)); lvl=3; h,r-ind=1,1
        [4,3]((1,8,20),(1,8,21),(1,7,19),(1,7,18)); lvl=4; h,r-ind=1,1
          [3,3]((1,8,21),(1,7,19),(2,15,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,18),(1,7,19),(2,15,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,20),(1,8,21),(2,15,39)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,18),(1,8,20),(2,15,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,22),(1,8,21),(1,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,22),(2,14,39),(1,7,19)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,24),(1,8,22),(1,7,21),(2,14,39)); lvl=3; h,r-ind=1,1
        [3,3]((1,8,22),(2,14,39),(1,7,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,22),(1,8,23),(1,7,20)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,24),(1,8,23),(1,7,21),(1,7,20)); lvl=4; h,r-ind=1,1
          [3,3]((1,7,21),(1,7,20),(2,15,44)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,23),(1,7,20),(2,15,44)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,24),(1,8,23),(2,15,44)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,24),(1,7,21),(2,15,44)); lvl=5; h,r-ind=1,1
    [3,3]((1,4,12),(1,6,18),(1,6,16)); lvl=2; h,r-ind=4,2; optimized-h
    [4,3]((1,8,16),(1,6,14),(1,8,20),(1,6,16)); lvl=2; h,r-ind=4,2
      [4,3]((1,7,18),(2,14,33),(1,6,16),(1,6,15)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,15),(1,6,16),(3,19,48)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,18),(1,7,17),(1,6,16),(3,19,48)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,7,17),(3,19,48),(2,13,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,16),(3,19,48),(2,13,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,18),(1,7,17),(2,13,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,16),(1,7,18),(2,13,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,17),(1,6,15),(3,19,48)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,17),(2,14,33),(1,6,15)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,15),(2,14,33),(1,6,14),(1,6,15)); lvl=3; h,r-ind=1,1
        [3,3]((1,6,14),(1,6,15),(3,19,45)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,16),(1,6,15),(3,19,45)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,33),(1,7,16),(1,6,15)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,15),(1,7,16),(1,6,14),(3,19,45)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,7,16),(3,19,45),(2,13,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,14),(3,19,45),(2,13,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,15),(1,7,16),(2,13,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,14),(1,7,15),(2,13,30)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,20),(1,8,18),(1,7,18),(2,14,33)); lvl=3; h,r-ind=1,1
        [3,3]((1,8,18),(2,14,33),(1,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,18),(1,8,19),(1,7,17)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,20),(1,8,19),(1,7,18),(1,7,17)); lvl=4; h,r-ind=1,1
          [3,3]((1,7,18),(1,7,17),(2,15,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,19),(1,7,17),(2,15,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,20),(1,8,19),(2,15,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,20),(1,7,18),(2,15,37)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,15),(1,8,16),(1,8,18),(2,14,33)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,16),(1,8,18),(1,8,17)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,15),(1,7,16),(1,8,16),(1,8,17)); lvl=4; h,r-ind=1,1
          [3,3]((1,8,16),(1,8,17),(2,15,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,16),(1,8,17),(2,15,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,15),(1,8,16),(2,15,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,16),(1,7,15),(2,15,32)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,33),(1,7,16),(1,8,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,12),(1,6,14),(1,6,16)); lvl=2; h,r-ind=4,2; optimized-h
  [3,3]((0,1,0),(1,8,24),(1,8,16)); lvl=1; h,r-ind=8,8; optimized-h
```

24.17 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,9,24)); lvl=0; h,r-ind=24,192
  [5,3]((2,15,30),(2,15,36),(1,6,12),(1,6,15),(2,9,21)); lvl=1; h,r-ind=9,3
    [5,3]((4,25,56),(1,7,17),(1,5,12),(2,12,27),(1,6,15)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,14),(1,5,12),(1,6,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,14),(1,7,17),(1,6,15)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,6,14),(5,32,73),(1,7,17)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((4,25,56),(1,6,14),(5,32,73)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,6,14),(1,5,12),(2,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,25,56),(1,6,14),(2,12,27)); lvl=3; h,r-ind=1,1
    [3,3]((4,25,56),(2,14,31),(1,7,17)); lvl=2; h,r-ind=9,3; optimized-h
    [3,3]((1,7,14),(4,25,56),(2,14,31)); lvl=2; h,r-ind=9,3; optimized-h
    [4,3]((2,15,33),(2,14,31),(2,15,36),(1,7,17)); lvl=2; h,r-ind=3,1
      [4,3]((2,15,36),(4,30,69),(1,7,17),(1,7,16)); lvl=3; h,r-ind=1,1
        [3,3]((4,29,68),(1,7,16),(1,7,17)); lvl=4; h,r-ind=1,1
        [4,3]((2,15,36),(2,15,35),(4,29,68),(1,7,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,15,35),(4,29,68),(3,22,52)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,17),(4,29,68),(3,22,52)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,36),(2,15,35),(3,22,52)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,17),(2,15,36),(3,22,52)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,35),(4,29,68),(1,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,30,69),(2,15,35),(1,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,33),(4,30,69),(1,7,16)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((2,15,33),(2,14,31),(1,7,16)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,14),(2,15,30),(2,15,33),(2,14,31)); lvl=2; h,r-ind=3,1
      [4,3]((1,7,14),(1,7,15),(2,15,30),(4,30,63)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,15),(2,15,31),(4,29,60)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,14),(2,15,30),(2,15,31),(4,29,60)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,15,30),(3,22,45),(2,15,31)); lvl=5; h,r-ind=1,1
          [3,3]((4,29,60),(3,22,45),(2,15,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,14),(2,15,30),(3,22,45)); lvl=5; h,r-ind=1,1
          [3,3]((4,29,60),(1,7,14),(3,22,45)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,15),(1,7,14),(4,29,60)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,15),(4,30,63),(2,15,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,15),(2,15,33),(4,30,63)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((1,7,15),(2,14,31),(2,15,33)); lvl=3; h,r-ind=1,1
    [5,3]((1,7,14),(4,25,56),(1,6,12),(2,12,27),(1,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,11),(1,6,13),(2,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,25,56),(1,6,13),(2,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,25,56),(5,32,70),(1,6,13)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,7,14),(5,32,70),(1,6,13)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,6,12),(1,5,11),(1,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,14),(1,6,12),(1,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,12),(2,12,27),(1,5,11)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,5,12),(1,5,11),(2,9,21)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,9,24),(1,6,15),(2,9,21)); lvl=1; h,r-ind=9,3
    [4,3]((1,5,12),(2,6,15),(1,5,13),(1,6,15)); lvl=2; h,r-ind=1,3
      [3,3]((2,6,15),(1,4,10),(1,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,15),(1,4,10),(1,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,12),(1,6,15),(1,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,12),(2,6,15),(1,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,12),(1,3,7),(2,6,15)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,0,0),(1,3,7),(2,6,15)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,5,12),(2,9,21),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,8),(2,6,15),(1,5,13)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,3,8),(2,9,24),(1,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,3,8),(2,6,15)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,9,24),(2,9,24),(1,6,15)); lvl=1; h,r-ind=9,3; optimized-h
  [4,3]((1,0,0),(1,6,9),(1,6,12),(2,9,21)); lvl=1; h,r-ind=9,6
    [5,3]((1,5,11),(1,4,8),(2,12,21),(2,8,15),(1,6,12)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,11),(1,5,9),(3,15,29)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((3,14,27),(2,9,17),(1,5,9),(3,15,29)); lvl=3; h,r-ind=1,1
        [4,3]((2,9,17),(7,33,63),(2,10,19),(1,5,9)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((7,33,63),(4,19,36),(2,10,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(4,19,36),(2,10,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,17),(1,5,9),(4,19,36)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,17),(7,33,63),(4,19,36)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,27),(2,9,17),(7,33,63)); lvl=4; h,r-ind=1,1
        [4,3]((3,15,29),(3,14,27),(7,33,63),(2,10,19)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,24,46),(3,14,27),(7,33,63)); lvl=5; h,r-ind=1,1
          [3,3]((5,24,46),(2,10,19),(7,33,63)); lvl=5; h,r-ind=1,1
          [3,3]((3,15,29),(5,24,46),(2,10,19)); lvl=5; h,r-ind=1,1
          [3,3]((3,15,29),(5,24,46),(3,14,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,17),(2,8,15),(1,5,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,8),(3,14,27),(2,9,17),(2,8,15)); lvl=3; h,r-ind=1,1
        [3,3]((3,14,27),(3,13,25),(2,9,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,15),(3,13,25),(2,9,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(2,8,15),(3,13,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(3,14,27),(3,13,25)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,12),(1,5,10),(1,6,11),(3,15,29)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,10),(3,15,29),(2,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,11),(3,15,29),(2,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(1,6,11),(2,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,12),(1,5,10),(2,11,21)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,8),(3,14,27),(1,5,10),(3,15,29)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,10),(3,15,29),(4,19,37)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((3,14,27),(3,15,29),(4,19,37)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,10),(4,19,37)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,27),(1,4,8),(4,19,37)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,11),(1,6,12),(1,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(1,5,11),(1,5,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,12,21),(1,6,11),(1,5,9)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,6),(1,5,11),(1,4,8),(1,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,8),(1,5,11),(2,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(1,5,11),(2,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,4,8),(2,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(1,3,6),(2,8,17)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,4),(1,3,6),(1,3,7),(1,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(1,4,9),(2,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(1,4,9),(2,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,6),(2,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(1,2,4),(2,6,13)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,4),(1,3,7)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((2,9,21),(1,5,11),(1,4,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,7),(2,9,21),(1,4,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,6),(2,7,13),(1,4,8),(2,8,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,8),(2,8,15),(3,11,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,13),(2,8,15),(3,11,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(2,7,13),(3,11,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,4,8),(3,11,21)); lvl=3; h,r-ind=1,1
  [4,3]((2,7,13),(1,6,9),(2,12,21),(2,8,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,9),(1,6,10),(2,12,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,9),(1,6,10),(2,10,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,7),(1,5,9),(2,9,15),(2,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,9),(2,10,17),(3,14,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,15),(2,10,17),(3,14,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(1,5,9),(3,14,24)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,15),(1,4,7),(3,14,24)); lvl=4; h,r-ind=1,1
    [4,3]((2,7,13),(1,4,7),(1,5,9),(2,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,22),(1,5,9),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,13),(3,12,22),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,15),(3,12,22),(1,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,13),(2,8,15),(3,12,22)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,9),(2,9,15),(1,6,10),(2,10,17)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,15),(1,5,8),(4,21,35),(2,10,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,15,25),(1,5,8),(4,21,35)); lvl=5; h,r-ind=1,1
        [3,3]((3,15,25),(2,10,17),(4,21,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,15),(3,15,25),(2,10,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,15),(3,15,25),(1,5,8)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(4,21,35),(2,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(1,5,8),(4,21,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(1,6,9),(1,5,8)); lvl=4; h,r-ind=1,1
  [4,3]((2,7,13),(2,6,11),(1,6,9),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(2,6,9),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,13),(1,4,6),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,7),(2,9,15),(2,8,13),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,15),(2,8,13),(3,12,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,8,13),(3,12,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,9,15),(3,12,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,4,7),(3,12,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,7),(2,7,13),(2,6,11),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,13),(2,6,11),(3,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,6,11),(3,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,7,13),(3,10,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,4,7),(3,10,18)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,9),(2,9,15),(2,8,13),(1,4,6)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,15),(1,5,8),(2,8,13),(4,17,27)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,21),(4,17,27),(1,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,15),(3,13,21),(1,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,21),(2,8,13),(4,17,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,15),(3,13,21),(2,8,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,6),(2,8,13),(4,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,5,8),(4,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,6,9),(1,5,8)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,0),(1,2,4),(2,6,11),(2,6,9)); lvl=2; h,r-ind=2,1
    [4,3]((1,3,5),(2,4,7),(1,2,4),(2,6,11)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,9),(2,4,7),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,11),(2,5,9),(1,2,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,6,11),(2,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,9),(2,4,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,5),(2,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,2),(1,2,3),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,3),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(1,1,2),(2,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(2,3,5),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(2,3,5),(1,2,3)); lvl=4; h,r-ind=1,1
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    [3,3]((1,2,3),(2,6,9),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,4,7),(1,2,4)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,4),(1,3,6),(2,7,13),(2,6,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(2,7,13),(3,9,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,11),(2,7,13),(3,9,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,6),(3,9,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,11),(1,2,4),(3,9,17)); lvl=3; h,r-ind=1,1
[3,3]((1,9,24),(2,15,36),(1,6,15)); lvl=1; h,r-ind=9,3; optimized-h
[5,3]((1,9,12),(1,6,9),(1,9,15),(2,15,30),(1,6,12)); lvl=1; h,r-ind=9,3
  [5,3]((1,6,12),(2,12,21),(1,7,14),(4,30,51),(2,15,27)); lvl=2; h,r-ind=3,3
    [4,3]((3,21,38),(1,7,13),(2,15,26),(2,15,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,22,39),(2,15,26),(2,15,27)); lvl=4; h,r-ind=1,1
      [3,3]((3,22,39),(1,7,13),(2,15,27)); lvl=4; h,r-ind=1,1
      [3,3]((3,21,38),(3,22,39),(1,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,21,38),(3,22,39),(2,15,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,14),(1,7,13),(2,15,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,12),(1,7,14),(1,7,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,12),(1,6,11),(3,21,38),(1,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,24),(1,6,11),(3,21,38)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,24),(1,7,13),(3,21,38)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(2,13,24),(1,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(2,13,24),(1,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,12),(3,21,38),(2,15,26)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((1,7,12),(1,6,11),(3,21,38)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((2,12,21),(1,7,12),(1,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,12),(2,15,26),(4,30,51)); lvl=3; h,r-ind=1,1
  [5,3]((2,18,27),(1,9,15),(1,8,15),(4,30,51),(2,15,27)); lvl=2; h,r-ind=3,3
    [4,3]((1,8,14),(3,24,41),(2,15,26),(2,15,27)); lvl=3; h,r-ind=1,1
      [3,3]((3,23,40),(2,15,26),(3,24,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,14),(3,23,40),(3,24,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,14),(2,15,27),(3,23,40)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,27),(3,23,40),(2,15,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,15),(1,8,14),(2,15,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,9,15),(1,8,15),(1,8,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,9,15),(1,9,14),(1,8,14),(3,24,41)); lvl=3; h,r-ind=1,1
      [3,3]((2,17,28),(1,8,14),(3,24,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,14),(2,17,28),(3,24,41)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,15),(1,9,14),(2,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,15),(2,17,28),(1,8,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,13),(3,24,41),(2,15,26)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((1,8,13),(4,30,51),(2,15,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,13),(1,9,14),(3,24,41)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((1,8,13),(1,9,14),(2,18,27)); lvl=3; h,r-ind=1,1
  [3,3]((1,8,15),(1,7,14),(2,15,27)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
  [3,3]((2,15,30),(1,8,15),(1,7,14)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,9),(2,15,21),(2,12,21),(4,30,51)); lvl=2; h,r-ind=9,3
    [4,3]((1,7,12),(5,36,58),(3,21,34),(2,15,25)); lvl=3; h,r-ind=1,1
      [4,3]((2,14,23),(7,51,83),(3,21,34),(5,36,58)); lvl=4; h,r-ind=1,1
        [4,3]((3,21,34),(4,29,47),(9,64,104),(5,36,58)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((7,50,81),(4,29,47),(9,64,104)); lvl=6; h,r-ind=1,1
          [3,3]((3,21,34),(7,50,81),(9,64,104)); lvl=6; h,r-ind=1,1
          [3,3]((5,36,58),(7,50,81),(4,29,47)); lvl=6; h,r-ind=1,1
          [3,3]((3,21,34),(5,36,58),(7,50,81)); lvl=6; h,r-ind=1,1
        [3,3]((2,14,23),(4,29,47),(9,64,104)); lvl=5; h,r-ind=1,1
        [3,3]((3,21,34),(2,14,23),(9,64,104)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,23),(7,51,83),(4,29,47)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,12),(2,14,23),(2,15,25),(7,51,83)); lvl=4; h,r-ind=1,1
        [3,3]((3,22,36),(2,14,23),(7,51,83)); lvl=5; h,r-ind=1,1
        [3,3]((6,43,71),(3,22,36),(2,14,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,12),(6,43,71),(2,14,23)); lvl=5; h,r-ind=1,1
        [4,3]((1,7,12),(6,43,71),(2,15,25),(3,22,36)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,22,36),(6,43,71),(4,29,48)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,12),(6,43,71),(4,29,48)); lvl=6; h,r-ind=1,1
          [3,3]((2,15,25),(3,22,36),(4,29,48)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,12),(2,15,25),(4,29,48)); lvl=6; h,r-ind=1,1
    [3,3]((1,7,12),(4,30,51),(2,15,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,12),(1,6,10),(3,21,34)); lvl=3; h,r-ind=2,2; optimized-h
    [4,3]((1,6,9),(1,7,10),(1,6,10),(3,21,34)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,10),(3,21,34),(1,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(3,19,30),(1,7,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,9),(3,19,30),(1,7,10),(1,7,11)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,20),(1,7,10),(1,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,30),(2,13,20),(1,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,9),(3,19,30),(2,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,9),(2,13,20),(1,7,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(1,6,9),(3,19,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,12),(1,6,10),(2,12,21)); lvl=3; h,r-ind=1,1
    [3,3]((4,30,47),(5,36,58),(2,15,25)); lvl=3; h,r-ind=9,3; optimized-h
    [5,3]((1,7,10),(2,15,21),(4,30,47),(5,36,58),(3,21,34)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,10),(1,7,11),(2,15,21),(4,30,45)); lvl=4; h,r-ind=1,1
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          [3,3]((1,7,11),(2,15,22),(4,29,43)); lvl=5; h,r-ind=1,1
          [4,3]((1,7,10),(2,15,21),(2,15,22),(4,29,43)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,15,21),(3,22,32),(2,15,22)); lvl=6; h,r-ind=1,1
            [3,3]((4,29,43),(3,22,32),(2,15,22)); lvl=6; h,r-ind=1,1
            [3,3]((1,7,10),(2,15,21),(3,22,32)); lvl=6; h,r-ind=1,1
            [3,3]((4,29,43),(1,7,10),(3,22,32)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,11),(1,7,10),(4,29,43)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,11),(4,30,45),(2,15,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,11),(2,15,23),(4,30,45)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,11),(2,15,23),(3,22,35)); lvl=4; h,r-ind=1,1
        [3,3]((4,30,47),(2,15,23),(3,22,35)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,11),(3,21,34),(3,22,35),(5,36,58)); lvl=4; h,r-ind=1,1
          [3,3]((3,21,34),(5,36,58),(6,43,69)); lvl=5; h,r-ind=1,1
          [3,3]((3,22,35),(5,36,58),(6,43,69)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,11),(3,22,35),(6,43,69)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,11),(3,21,34),(6,43,69)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,12),(2,18,27),(2,15,21),(4,30,51)); lvl=2; h,r-ind=9,3
      [3,3]((2,15,25),(4,30,47),(5,39,61)); lvl=3; h,r-ind=9,3; optimized-h
      [5,3]((1,8,11),(3,24,37),(2,15,21),(4,30,47),(5,39,61)); lvl=3; h,r-ind=1,1
        [4,3]((1,8,12),(3,24,37),(3,23,36),(5,39,61)); lvl=4; h,r-ind=1,1
          [3,3]((3,24,37),(5,39,61),(6,47,73)); lvl=5; h,r-ind=1,1
          [3,3]((3,23,36),(5,39,61),(6,47,73)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,12),(3,23,36),(6,47,73)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,12),(3,24,37),(6,47,73)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,12),(2,15,23),(3,23,36)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,23),(4,30,47),(3,23,36)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,12),(2,15,23),(4,30,45)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,11),(1,8,12),(2,15,21),(4,30,45)); lvl=4; h,r-ind=1,1
          [3,3]((1,8,12),(2,15,22),(4,31,45)); lvl=5; h,r-ind=1,1
          [4,3]((1,8,11),(2,15,21),(2,15,22),(4,31,45)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,15,21),(3,23,33),(2,15,22)); lvl=6; h,r-ind=1,1
            [3,3]((4,31,45),(3,23,33),(2,15,22)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,11),(4,31,45),(3,23,33)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,11),(2,15,21),(3,23,33)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,12),(1,8,11),(4,31,45)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,12),(4,30,45),(2,15,22)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,11),(1,9,12),(1,9,13),(3,24,37)); lvl=3; h,r-ind=1,1
        [3,3]((1,9,12),(1,9,13),(3,26,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,12),(1,9,13),(3,26,37)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,12),(3,24,37),(1,9,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,11),(1,8,12),(1,9,12),(3,26,37)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,17,24),(3,26,37),(1,8,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,11),(2,17,24),(1,8,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,12),(1,8,11),(2,17,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,12),(2,17,24),(3,26,37)); lvl=5; h,r-ind=1,1
      [4,3]((3,24,37),(2,15,25),(1,8,13),(5,39,61)); lvl=3; h,r-ind=1,1
        [4,3]((1,8,13),(2,16,25),(2,15,25),(7,54,86)); lvl=4; h,r-ind=1,1
          [3,3]((2,16,25),(3,23,37),(7,54,86)); lvl=5; h,r-ind=1,1
          [3,3]((6,47,75),(2,16,25),(3,23,37)); lvl=5; h,r-ind=1,1
          [4,3]((1,8,13),(6,47,75),(2,15,25),(3,23,37)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((4,31,50),(3,23,37),(6,47,75)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,13),(4,31,50),(6,47,75)); lvl=6; h,r-ind=1,1
            [3,3]((4,31,50),(2,15,25),(3,23,37)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,13),(4,31,50),(2,15,25)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,13),(6,47,75),(2,16,25)); lvl=5; h,r-ind=1,1
        [4,3]((5,39,61),(3,24,37),(2,16,25),(7,54,86)); lvl=4; h,r-ind=1,1
          [3,3]((9,71,111),(2,16,25),(3,24,37)); lvl=5; h,r-ind=1,1
          [4,3]((5,39,61),(9,71,111),(4,31,49),(3,24,37)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((7,55,86),(4,31,49),(9,71,111)); lvl=6; h,r-ind=1,1
            [3,3]((3,24,37),(7,55,86),(9,71,111)); lvl=6; h,r-ind=1,1
            [3,3]((5,39,61),(7,55,86),(4,31,49)); lvl=6; h,r-ind=1,1
            [3,3]((3,24,37),(5,39,61),(7,55,86)); lvl=6; h,r-ind=1,1
          [3,3]((9,71,111),(4,31,49),(2,16,25)); lvl=5; h,r-ind=1,1
          [3,3]((7,54,86),(4,31,49),(2,16,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,13),(3,24,37),(1,8,13)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((1,9,13),(2,18,27),(1,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,25),(4,30,51),(1,8,13)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,9,12),(1,9,15)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,9,24),(0,1,0),(1,9,15)); lvl=1; h,r-ind=9,9; optimized-h
  [4,3]((1,0,0),(0,1,0),(1,9,12),(1,6,9)); lvl=1; h,r-ind=3,3
    [4,3]((1,6,6),(0,1,0),(1,9,12),(2,15,21)); lvl=2; h,r-ind=3,3
      [4,3]((2,15,18),(4,30,33),(1,8,10),(1,9,9)); lvl=3; h,r-ind=3,3
        [3,3]((5,39,42),(1,9,9),(1,8,9)); lvl=4; h,r-ind=3,3; optimized-h
        [3,3]((1,8,10),(1,9,9),(1,8,9)); lvl=4; h,r-ind=1,1
        [4,3]((2,15,17),(4,30,33),(5,39,42),(1,8,9)); lvl=4; h,r-ind=1,1
          [3,3]((1,8,9),(3,23,25),(5,39,42)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(3,23,25),(6,46,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(2,15,17),(6,46,51)); lvl=5; h,r-ind=1,1
          [4,3]((2,15,17),(4,30,33),(3,23,25),(6,46,51)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((5,38,42),(4,30,33),(3,23,25)); lvl=6; h,r-ind=1,1
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        [3,3]((6,46,51),(5,38,42),(3,23,25)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,17),(6,46,51),(5,38,42)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,17),(5,38,42),(4,30,33)); lvl=6; h,r-ind=1,1
    [3,3]((2,15,18),(2,15,17),(1,8,9)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,18),(1,8,10),(1,8,9)); lvl=4; h,r-ind=1,1
  [5,3]((1,8,11),(0,1,0),(1,9,12),(1,8,10),(1,9,9)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,18,21),(1,9,10)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,10),(2,17,21),(2,18,21),(1,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,21),(2,18,21),(3,26,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,10),(2,18,21),(3,26,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,10),(1,9,10),(3,26,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,10),(2,17,21),(3,26,31)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,11),(1,8,10),(2,17,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,9),(0,1,0),(1,9,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,10),(1,9,9),(1,9,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,11),(0,1,0),(2,18,21)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,11),(2,17,21),(1,9,11),(2,18,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,11),(2,18,21),(3,26,32)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,21),(2,18,21),(3,26,32)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,11),(1,9,11),(3,26,32)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,21),(1,8,11),(3,26,32)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,12),(1,9,11),(0,1,0)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,11),(1,9,12),(1,9,11)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,6),(0,1,0),(4,30,33),(1,9,9)); lvl=3; h,r-ind=3,3
    [3,3]((1,8,8),(0,1,0),(1,9,9)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,8),(5,39,42),(3,23,24),(1,9,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,16,17),(4,31,33),(5,39,42)); lvl=5; h,r-ind=1,1
      [4,3]((2,16,17),(8,63,66),(5,39,41),(4,31,33)); lvl=5; h,r-ind=1,1
        [3,3]((5,39,41),(7,55,58),(8,63,66)); lvl=6; h,r-ind=1,1
        [3,3]((2,16,17),(7,55,58),(8,63,66)); lvl=6; h,r-ind=1,1
        [3,3]((4,31,33),(2,16,17),(7,55,58)); lvl=6; h,r-ind=1,1
        [3,3]((4,31,33),(5,39,41),(7,55,58)); lvl=6; h,r-ind=1,1
      [3,3]((5,39,41),(3,23,24),(4,31,33)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,8),(8,63,66),(5,39,41),(3,23,24)); lvl=5; h,r-ind=1,1
        [3,3]((6,47,49),(5,39,41),(8,63,66)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,8),(6,47,49),(8,63,66)); lvl=6; h,r-ind=1,1
        [3,3]((6,47,49),(3,23,24),(5,39,41)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,8),(6,47,49),(3,23,24)); lvl=6; h,r-ind=1,1
      [4,3]((1,8,8),(1,9,9),(2,16,17),(8,63,66)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((1,9,9),(3,24,25),(2,16,17)); lvl=6; h,r-ind=1,1
        [3,3]((8,63,66),(3,24,25),(2,16,17)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,8),(8,63,66),(3,24,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,8),(1,9,9),(3,24,25)); lvl=6; h,r-ind=1,1
    [6,3]((4,30,33),(5,36,39),(5,39,42),(3,23,24),(3,22,23),(4,30,31)); lvl=4; h,r-ind=1,1
      [4,3]((2,15,16),(4,29,31),(5,36,39),(3,22,24)); lvl=5; h,r-ind=1,1
        [3,3]((5,36,39),(4,29,31),(7,51,55)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,16),(4,29,31),(7,51,55)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,24),(2,15,16),(7,51,55)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,24),(5,36,39),(7,51,55)); lvl=6; h,r-ind=1,1
      [4,3]((4,30,33),(3,23,25),(2,15,16),(3,22,24)); lvl=5; h,r-ind=1,1
        [3,3]((6,45,49),(3,23,25),(2,15,16)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,24),(6,45,49),(2,15,16)); lvl=6; h,r-ind=1,1
        [3,3]((4,30,33),(3,22,24),(6,45,49)); lvl=6; h,r-ind=1,1
        [3,3]((4,30,33),(6,45,49),(3,23,25)); lvl=6; h,r-ind=1,1
      [4,3]((3,23,25),(5,39,42),(2,15,16),(4,31,33)); lvl=5; h,r-ind=1,1
        [3,3]((7,54,58),(4,31,33),(5,39,42)); lvl=6; h,r-ind=1,1
        [3,3]((3,23,25),(7,54,58),(5,39,42)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,16),(7,54,58),(4,31,33)); lvl=6; h,r-ind=1,1
        [3,3]((3,23,25),(2,15,16),(7,54,58)); lvl=6; h,r-ind=1,1
      [3,3]((3,22,23),(2,15,16),(4,29,31)); lvl=5; h,r-ind=1,1
      [3,3]((3,22,23),(2,15,16),(4,30,31)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,16),(3,23,24),(4,30,31)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,16),(4,31,33),(3,23,24)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,6),(1,7,7),(5,36,39),(3,22,23)); lvl=4; h,r-ind=1,1
      [4,3]((8,57,60),(5,36,38),(3,22,23),(1,7,7)); lvl=5; h,r-ind=1,1
        [3,3]((6,43,45),(5,36,38),(3,22,23)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,7),(6,43,45),(3,22,23)); lvl=6; h,r-ind=1,1
        [3,3]((8,57,60),(6,43,45),(5,36,38)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,7),(8,57,60),(6,43,45)); lvl=6; h,r-ind=1,1
      [4,3]((1,6,6),(2,14,15),(8,57,60),(1,7,7)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((2,14,15),(3,21,22),(8,57,60)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,7),(3,21,22),(8,57,60)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,6),(1,7,7),(3,21,22)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,6),(2,14,15),(3,21,22)); lvl=6; h,r-ind=1,1
      [4,3]((4,29,31),(2,14,15),(8,57,60),(5,36,38)); lvl=5; h,r-ind=1,1
        [3,3]((7,50,53),(2,14,15),(8,57,60)); lvl=6; h,r-ind=1,1
        [3,3]((7,50,53),(5,36,38),(8,57,60)); lvl=6; h,r-ind=1,1
        [3,3]((4,29,31),(7,50,53),(5,36,38)); lvl=6; h,r-ind=1,1
        [3,3]((4,29,31),(7,50,53),(2,14,15)); lvl=6; h,r-ind=1,1
      [3,3]((4,29,31),(5,36,39),(2,14,15)); lvl=5; h,r-ind=1,1
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        [3,3]((4,29,31),(5,36,38),(3,22,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,8),(2,15,15),(0,1,0)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,7),(2,15,15),(0,1,0)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(1,7,7),(0,1,0)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,8),(3,23,24),(4,30,31),(2,15,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,23,24),(4,30,31),(5,38,39)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,15),(4,30,31),(5,38,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,8),(3,23,24),(5,38,39)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,15),(1,8,8),(5,38,39)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,7),(3,22,23),(4,30,31),(2,15,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,22,23),(4,30,31),(5,37,38)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,15),(4,30,31),(5,37,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,7),(3,22,23),(5,37,38)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,15),(1,7,7),(5,37,38)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,9),(1,8,11),(2,15,18),(1,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,19),(1,8,10),(1,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(2,15,19),(1,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,18),(1,7,9),(2,15,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,18),(2,15,19),(1,8,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(1,8,11),(2,15,21)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,6),(1,7,9),(2,15,18),(4,30,33)); lvl=3; h,r-ind=3,3
      [3,3]((1,7,8),(1,7,9),(2,15,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(2,15,17),(2,15,18)); lvl=4; h,r-ind=1,1
      [4,3]((5,36,39),(1,7,8),(4,30,33),(2,15,17)); lvl=4; h,r-ind=1,1
        [4,3]((3,22,24),(6,44,49),(2,15,17),(4,30,33)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((6,44,49),(2,15,17),(5,37,41)); lvl=6; h,r-ind=1,1
          [3,3]((4,30,33),(2,15,17),(5,37,41)); lvl=6; h,r-ind=1,1
          [3,3]((3,22,24),(4,30,33),(5,37,41)); lvl=6; h,r-ind=1,1
          [3,3]((3,22,24),(6,44,49),(5,37,41)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,8),(3,22,24),(6,44,49)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(5,36,39),(3,22,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(6,44,49),(2,15,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,6),(5,36,39),(1,7,8)); lvl=4; h,r-ind=3,3; optimized-h
      [3,3]((1,6,6),(1,7,8),(1,7,9)); lvl=4; h,r-ind=1,1
[5,3]((1,6,9),(2,6,9),(1,6,6),(1,3,3),(2,15,21)); lvl=2; h,r-ind=9,3; alert-h-inc
  [3,3]((1,3,4),(1,4,6),(2,9,12)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
  [6,3]((1,6,9),(1,7,10),(1,6,8),(4,21,27),(1,4,6),(2,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,15),(1,7,10),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(1,7,10),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(1,4,6),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,15),(2,10,13),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,10,13),(2,9,12),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(2,9,12),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,15),(1,6,8),(1,7,10)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,15),(2,10,13),(4,21,27),(1,6,8)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,16,21),(2,10,13),(4,21,27)); lvl=5; h,r-ind=1,1
      [3,3]((3,16,21),(1,6,8),(4,21,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,15),(3,16,21),(1,6,8)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,15),(3,16,21),(2,10,13)); lvl=5; h,r-ind=1,1
  [3,3]((1,6,8),(4,21,27),(2,12,15)); lvl=3; h,r-ind=3,3; optimized-h
  [4,3]((1,7,10),(1,6,8),(2,12,15),(1,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(2,12,15),(2,13,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(2,12,15),(2,13,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,10),(1,6,8),(2,13,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(1,7,10),(2,13,17)); lvl=4; h,r-ind=1,1
  [3,3]((1,6,6),(2,12,15),(1,7,9)); lvl=3; h,r-ind=3,3; optimized-h
  [3,3]((1,7,10),(2,15,21),(1,7,9)); lvl=3; h,r-ind=1,1
  [5,3]((4,21,27),(1,3,3),(2,9,9),(1,3,4),(2,9,12)); lvl=3; h,r-ind=3,3
    [3,3]((2,10,13),(1,5,6),(4,21,27)); lvl=4; h,r-ind=1,1
    [3,3]((3,13,16),(2,10,13),(1,5,6)); lvl=4; h,r-ind=2,2; optimized-h
    [3,3]((1,4,4),(3,13,16),(1,5,6)); lvl=4; h,r-ind=2,2; optimized-h
    [3,3]((1,4,4),(2,9,9),(1,5,6)); lvl=4; h,r-ind=1,1
    [4,3]((3,13,16),(1,4,5),(2,9,12),(2,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,12),(3,14,18)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,13),(2,9,12),(3,14,18)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,16),(1,4,5),(3,14,18)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,13),(3,13,16),(3,14,18)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,5),(2,9,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,3),(1,3,4),(1,4,5)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,4),(1,3,3),(3,13,16),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,9),(1,3,3),(1,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,16),(2,8,9),(1,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,4),(3,13,16),(2,8,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,4),(2,8,9),(1,3,3)); lvl=5; h,r-ind=1,1
  [4,3]((4,21,27),(2,9,9),(1,6,6),(2,12,15)); lvl=3; h,r-ind=9,3
    [4,3]((1,5,5),(1,6,6),(1,6,7),(2,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(2,11,12),(1,6,7)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,13),(2,11,12),(1,6,7)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,5),(2,11,13),(2,11,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,5),(1,6,6),(2,11,12)); lvl=5; h,r-ind=1,1
```

```
      [4,3]((2,11,14),(2,12,15),(1,6,7),(2,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,15),(3,17,21),(1,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,13),(3,17,21),(1,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,14),(2,12,15),(3,17,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,13),(2,11,14),(3,17,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,6),(2,11,14),(2,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(4,21,27),(2,11,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,5),(2,11,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,9,9),(1,5,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(2,6,9),(1,4,6)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,6,9),(1,3,3)); lvl=2; h,r-ind=9,3; alert-h-inc; optimized-h
  [3,3]((1,6,6),(1,3,3),(0,1,0)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(1,3,3),(0,1,0)); lvl=2; h,r-ind=3,3; optimized-h
[4,3]((1,9,24),(1,9,15),(2,15,30),(2,15,36)); lvl=1; h,r-ind=9,3
  [4,3]((2,15,30),(1,8,15),(2,15,33),(2,16,35)); lvl=2; h,r-ind=1,1
    [4,3]((2,15,33),(4,30,63),(1,8,17),(2,16,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,16,33),(3,23,48),(4,31,65)); lvl=4; h,r-ind=1,1
      [4,3]((2,15,32),(7,54,114),(3,23,48),(4,31,65)); lvl=4; h,r-ind=1,1
        [3,3]((7,54,114),(6,46,97),(4,31,65)); lvl=5; h,r-ind=1,1
        [3,3]((3,23,48),(6,46,97),(4,31,65)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,32),(3,23,48),(6,46,97)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,32),(7,54,114),(6,46,97)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,32),(4,30,63),(3,23,48)); lvl=4; h,r-ind=1,1
      [4,3]((7,54,114),(1,8,17),(2,16,33),(4,31,65)); lvl=4; h,r-ind=1,1
        [3,3]((5,39,82),(2,16,33),(1,8,17)); lvl=5; h,r-ind=1,1
        [3,3]((7,54,114),(5,39,82),(1,8,17)); lvl=5; h,r-ind=1,1
        [3,3]((5,39,82),(4,31,65),(2,16,33)); lvl=5; h,r-ind=1,1
        [3,3]((7,54,114),(5,39,82),(4,31,65)); lvl=5; h,r-ind=1,1
      [4,3]((2,15,33),(2,15,32),(7,54,114),(1,8,17)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,15,32),(3,23,49),(7,54,114)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,17),(3,23,49),(7,54,114)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,33),(1,8,17),(3,23,49)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,33),(2,15,32),(3,23,49)); lvl=5; h,r-ind=1,1
    [4,3]((2,15,30),(4,30,63),(1,8,15),(2,16,33)); lvl=3; h,r-ind=3,1; alert-h-inc
      [3,3]((3,23,48),(1,8,16),(2,16,33)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,48),(2,15,31),(1,8,16)); lvl=4; h,r-ind=1,1
      [4,3]((2,15,30),(2,15,31),(1,8,15),(1,8,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,23,46),(1,8,16),(1,8,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,30),(3,23,46),(1,8,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,31),(3,23,46),(1,8,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,30),(2,15,31),(3,23,46)); lvl=5; h,r-ind=1,1
      [3,3]((3,23,48),(4,30,63),(2,15,31)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,33),(2,16,35),(1,8,17)); lvl=3; h,r-ind=1,1
  [4,3]((1,8,20),(2,15,36),(2,15,33),(2,16,35)); lvl=2; h,r-ind=1,1
    [4,3]((1,8,18),(2,16,37),(2,15,33),(4,30,69)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,34),(3,23,53),(4,30,69)); lvl=4; h,r-ind=1,1
      [4,3]((7,54,123),(4,31,71),(2,15,34),(3,23,53)); lvl=4; h,r-ind=1,1
        [3,3]((4,31,71),(3,23,53),(6,46,105)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,34),(3,23,53),(6,46,105)); lvl=5; h,r-ind=1,1
        [3,3]((7,54,123),(4,31,71),(6,46,105)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,34),(7,54,123),(6,46,105)); lvl=5; h,r-ind=1,1
      [3,3]((2,16,37),(4,31,71),(3,23,53)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,18),(7,54,123),(2,16,37),(4,31,71)); lvl=4; h,r-ind=1,1
        [3,3]((5,39,89),(7,54,123),(4,31,71)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,37),(5,39,89),(4,31,71)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,18),(2,16,37),(5,39,89)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,18),(5,39,89),(7,54,123)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,18),(7,54,123),(2,15,33),(2,15,34)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,15,34),(3,23,52),(2,15,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,18),(3,23,52),(2,15,33)); lvl=5; h,r-ind=1,1
        [3,3]((7,54,123),(2,15,34),(3,23,52)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,18),(7,54,123),(3,23,52)); lvl=5; h,r-ind=1,1
    [4,3]((1,8,20),(2,16,37),(2,15,36),(4,30,69)); lvl=3; h,r-ind=3,1; alert-h-inc
      [3,3]((3,23,53),(4,30,69),(2,15,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,19),(3,23,53),(2,15,35)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,20),(1,8,19),(2,15,36),(2,15,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,36),(2,15,35),(3,23,55)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,19),(2,15,35),(3,23,55)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,20),(1,8,19),(3,23,55)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,20),(2,15,36),(3,23,55)); lvl=5; h,r-ind=1,1
      [3,3]((2,16,37),(1,8,19),(3,23,53)); lvl=4; h,r-ind=1,1
    [3,3]((2,16,35),(1,8,18),(2,15,33)); lvl=3; h,r-ind=1,1
  [4,3]((1,9,15),(2,18,39),(1,8,15),(2,16,35)); lvl=2; h,r-ind=1,1
    [4,3]((1,9,19),(2,18,35),(2,16,33),(1,8,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,17),(5,42,86),(3,25,51),(2,16,33)); lvl=4; h,r-ind=1,1
        [3,3]((4,33,68),(3,25,51),(5,42,86)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,17),(4,33,68),(5,42,86)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,33),(4,33,68),(3,25,51)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,17),(2,16,33),(4,33,68)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,34),(3,25,51),(2,16,33)); lvl=4; h,r-ind=1,1
```

```
        [4,3]((1,9,18),(2,17,34),(5,42,86),(3,25,51)); lvl=4; h,r-ind=1,1
          [3,3]((2,17,34),(4,34,69),(3,25,51)); lvl=5; h,r-ind=1,1
          [3,3]((5,42,86),(4,34,69),(3,25,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,18),(2,17,34),(4,34,69)); lvl=5; h,r-ind=1,1
          [3,3]((5,42,86),(1,9,18),(4,34,69)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,17),(1,9,19),(1,9,18),(5,42,86)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,17,35),(1,9,18),(1,9,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,17),(2,17,35),(1,9,19)); lvl=5; h,r-ind=1,1
          [3,3]((5,42,86),(2,17,35),(1,9,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,17),(5,42,86),(2,17,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,18),(2,18,35),(2,17,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,19),(2,17,37),(1,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,17,37),(2,16,35),(1,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,18,39),(1,9,19),(2,17,37)); lvl=3; h,r-ind=1,1
      [4,3]((1,9,15),(2,18,35),(1,8,15),(2,16,33)); lvl=3; h,r-ind=1,1
        [3,3]((1,8,16),(2,17,34),(2,16,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,17),(1,8,16),(2,17,34)); lvl=4; h,r-ind=1,1
        [3,3]((2,18,35),(1,9,17),(2,17,34)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,17),(2,18,33),(1,8,16)); lvl=4; h,r-ind=1,1
        [4,3]((1,9,15),(2,18,33),(1,8,15),(1,8,16)); lvl=4; h,r-ind=1,1
          [3,3]((1,8,15),(1,8,16),(3,25,47)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,16),(1,8,16),(3,25,47)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,16),(2,18,33),(1,8,16)); lvl=5; h,r-ind=1,1
          [4,3]((1,9,15),(1,9,16),(1,8,15),(3,25,47)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,25,47),(1,9,16),(2,17,31)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,15),(1,9,16),(2,17,31)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,15),(1,9,15),(2,17,31)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,15),(3,25,47),(2,17,31)); lvl=6; h,r-ind=1,1
    [4,3]((1,9,24),(1,8,20),(2,18,39),(2,16,35)); lvl=2; h,r-ind=1,1
      [4,3]((1,9,20),(2,18,43),(1,8,18),(2,16,37)); lvl=3; h,r-ind=1,1
        [4,3]((5,42,97),(3,25,58),(2,16,37),(1,8,18)); lvl=4; h,r-ind=1,1
          [3,3]((4,33,76),(3,25,58),(2,16,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,18),(4,33,76),(2,16,37)); lvl=5; h,r-ind=1,1
          [3,3]((5,42,97),(4,33,76),(3,25,58)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,18),(5,42,97),(4,33,76)); lvl=5; h,r-ind=1,1
        [4,3]((1,9,20),(1,9,21),(5,42,97),(1,8,18)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,17,39),(1,9,21),(5,42,97)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,18),(2,17,39),(5,42,97)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,20),(2,17,39),(1,9,21)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,18),(1,9,20),(2,17,39)); lvl=5; h,r-ind=1,1
        [4,3]((2,17,40),(1,9,21),(5,42,97),(3,25,58)); lvl=4; h,r-ind=1,1
          [3,3]((4,34,79),(1,9,21),(5,42,97)); lvl=5; h,r-ind=1,1
          [3,3]((4,34,79),(3,25,58),(5,42,97)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,40),(4,34,79),(3,25,58)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,40),(4,34,79),(1,9,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,40),(2,18,43),(1,9,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,17,40),(3,25,58),(2,16,37)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,24),(2,18,43),(1,8,20),(2,16,37)); lvl=3; h,r-ind=1,1
        [3,3]((2,17,40),(2,16,37),(1,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,22),(2,17,40),(1,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,22),(2,18,45),(1,8,19)); lvl=4; h,r-ind=1,1
        [4,3]((1,9,24),(2,18,45),(1,8,20),(1,8,19)); lvl=4; h,r-ind=1,1
          [3,3]((3,25,62),(1,8,19),(1,8,20)); lvl=5; h,r-ind=1,1
          [4,3]((1,9,24),(1,9,23),(3,25,62),(1,8,20)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((1,9,23),(3,25,62),(2,17,43)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,20),(3,25,62),(2,17,43)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,24),(1,8,20),(2,17,43)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,24),(1,9,23),(2,17,43)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,23),(3,25,62),(1,8,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,23),(2,18,45),(1,8,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,22),(2,18,43),(2,17,40)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,20),(2,17,37),(1,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,17,37),(2,16,35),(1,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,18,39),(1,9,20),(2,17,37)); lvl=3; h,r-ind=1,1
```

24.18 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,10,24)); lvl=0; h,r-ind=24,288
  [4,3]((0,1,0),(1,10,12),(1,0,0),(1,4,6)); lvl=1; h,r-ind=6,6
    [5,3]((1,6,6),(1,2,2),(1,2,3),(1,7,9),(1,4,6)); lvl=2; h,r-ind=1,2
      [4,3]((2,9,11),(1,4,6),(2,11,15),(1,3,4)); lvl=3; h,r-ind=3,1; alert-h-inc
        [4,3]((1,4,5),(1,3,4),(1,4,6),(1,5,7)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,4),(1,4,6),(2,8,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(1,4,6),(2,8,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(1,3,4),(2,8,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(1,4,5),(2,8,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(2,10,13),(1,5,7)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,11,15),(2,10,13),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,11),(1,4,5),(2,10,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,2),(1,4,4),(2,9,11),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,4,5),(2,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(1,4,5)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,2),(1,3,4),(1,3,3),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,5),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,4,5),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,4),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(2,6,7)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,9),(1,6,7),(2,9,11),(2,11,15)); lvl=3; h,r-ind=3,1; alert-h-inc
      [3,3]((2,10,13),(1,5,6),(2,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,13),(1,6,8),(1,5,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,9),(1,6,8),(1,6,7),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,8),(1,5,6),(2,12,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(1,5,6),(2,12,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(1,6,8),(2,12,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(1,7,9),(2,12,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,15),(2,10,13),(1,6,8)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,6),(1,7,9),(1,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,6),(1,4,4),(1,6,7),(2,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,4),(2,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(1,5,6),(1,4,4)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,6),(1,5,5),(1,6,7),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(1,5,6),(2,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,7),(1,5,6),(2,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(1,6,7),(2,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(1,5,5),(2,11,12)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,3),(1,4,6),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,6,6),(1,10,12),(1,7,9)); lvl=2; h,r-ind=3,6
    [3,3]((1,7,8),(1,6,6),(2,14,15)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,8,8),(1,6,6),(2,14,15)); lvl=3; h,r-ind=1,2
      [3,3]((1,7,7),(2,14,15),(1,8,8)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(1,8,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,7),(1,6,6),(2,14,15)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(1,6,6)); lvl=4; h,r-ind=1,1
    [5,3]((2,17,19),(1,9,9),(1,8,8),(1,7,8),(2,14,15)); lvl=3; h,r-ind=1,1
      [4,3]((2,16,17),(4,33,34),(2,15,16),(1,8,8)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,8,8),(3,24,25),(4,33,34)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,17),(3,24,25),(4,33,34)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,16),(2,16,17),(3,24,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,16),(1,8,8),(3,24,25)); lvl=5; h,r-ind=1,1
      [3,3]((2,14,15),(2,15,16),(1,8,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(2,14,15),(2,15,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,9),(4,33,34),(1,8,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,8),(1,8,9),(2,16,17),(2,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(2,16,17),(3,23,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,16),(2,16,17),(3,23,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(2,15,16),(3,23,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,8),(1,8,9),(3,23,25)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,9),(1,8,9),(2,16,17),(4,33,34)); lvl=4; h,r-ind=1,1
        [3,3]((3,25,26),(2,16,17),(1,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,9),(3,25,26),(1,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((4,33,34),(1,9,9),(3,25,26)); lvl=5; h,r-ind=1,1
        [3,3]((4,33,34),(3,25,26),(2,16,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,19),(1,9,9),(1,8,9)); lvl=4; h,r-ind=1,1
    [5,3]((0,1,0),(2,17,19),(1,9,9),(1,10,12),(2,17,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,10),(2,17,19),(2,17,20)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,11),(2,17,21),(1,9,10),(2,17,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,17,21),(2,17,20),(3,26,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,10),(2,17,20),(3,26,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,11),(1,9,10),(3,26,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,11),(2,17,21),(3,26,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,11),(1,9,10),(2,19,21)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,9,10),(2,19,21)); lvl=4; h,r-ind=1,1
      [4,3]((0,1,0),(1,10,12),(1,9,11),(2,19,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,10,12),(1,10,11),(1,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,19,21),(1,10,11),(1,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(2,19,21),(1,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(1,10,12),(1,10,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,10),(1,9,9),(2,17,19)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,9,10),(1,9,9)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,9,9),(1,8,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,9),(1,7,8),(1,6,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,17,19),(2,17,21),(1,7,9),(1,7,8)); lvl=3; h,r-ind=3,1
      [4,3]((1,8,9),(1,7,8),(1,7,9),(1,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,8),(1,7,9),(2,15,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,10),(1,7,9),(2,15,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,9),(1,7,8),(2,15,18)); lvl=5; h,r-ind=1,1
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        [3,3]((1,8,10),(1,8,9),(2,15,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,9),(2,17,20),(1,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,20),(2,17,21),(1,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,19),(1,8,9),(2,17,20)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,6),(1,2,2)); lvl=2; h,r-ind=4,4; optimized-h
  [3,3]((1,2,2),(1,0,0),(1,2,3)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=2; h,r-ind=2,2; optimized-h
[3,3]((1,4,8),(1,0,0),(1,4,6)); lvl=1; h,r-ind=8,4; optimized-h
[3,3]((1,4,9),(1,4,8),(1,0,0)); lvl=1; h,r-ind=4,4; optimized-h
[4,3]((1,4,9),(1,6,14),(1,5,12),(1,0,0)); lvl=1; h,r-ind=1,2
  [3,3]((1,3,7),(1,5,12),(1,6,14)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,9),(1,3,7),(1,6,14)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,7),(1,0,0),(1,5,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,9),(1,3,7),(1,0,0)); lvl=2; h,r-ind=1,1
[3,3]((1,10,24),(1,6,14),(1,5,12)); lvl=1; h,r-ind=2,2; optimized-h
[5,3]((1,4,8),(1,7,14),(1,10,14),(1,10,12),(1,4,6)); lvl=1; h,r-ind=6,2
  [4,3]((2,14,23),(2,13,22),(1,7,11),(1,6,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,10),(2,13,22),(3,20,33)); lvl=3; h,r-ind=1,1
    [3,3]((2,14,23),(2,13,22),(3,20,33)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,11),(2,14,23),(3,20,33)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,11),(1,6,10),(3,20,33)); lvl=3; h,r-ind=1,1
  [5,3]((1,4,7),(1,4,6),(1,7,9),(1,7,11),(1,6,10)); lvl=2; h,r-ind=1,1
    [4,3]((2,11,15),(1,5,8),(2,11,17),(1,4,6)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,17),(3,16,24),(5,26,39),(1,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,32),(3,16,24),(5,26,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(4,21,32),(5,26,39)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,17),(4,21,32),(3,16,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(2,11,17),(4,21,32)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,6),(1,5,7),(5,26,39),(1,5,8)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,10,15),(1,5,7),(5,26,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(2,10,15),(5,26,39)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(2,10,15),(1,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(1,4,6),(2,10,15)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,7),(2,11,16),(3,16,24),(5,26,39)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,16),(4,21,31),(3,16,24)); lvl=5; h,r-ind=1,1
        [3,3]((5,26,39),(4,21,31),(3,16,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(5,26,39),(4,21,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(2,11,16),(4,21,31)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,15),(1,5,7),(2,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,17),(2,11,16),(3,16,24)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(1,5,8),(1,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,10),(1,5,8),(2,11,17),(2,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,8),(2,11,17),(3,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,19),(2,11,17),(3,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(2,12,19),(3,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(1,5,8),(3,17,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(1,6,10),(1,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,15),(1,7,9),(2,11,17),(1,7,10)); lvl=3; h,r-ind=3,1; alert-h-inc
      [4,3]((1,6,8),(1,6,9),(1,7,10),(1,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,9),(1,7,10),(2,13,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(1,7,10),(2,13,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(1,7,9),(2,13,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(1,6,9),(2,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(1,6,9),(2,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,15),(2,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(2,11,17),(2,11,16)); lvl=4; h,r-ind=1,1
    [4,3]((2,11,17),(1,7,10),(1,7,11),(2,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,9),(1,7,10),(1,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(4,25,39),(1,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,19),(4,25,39),(1,7,11)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,17),(1,6,9),(2,12,19),(4,25,39)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,18,28),(4,25,39),(1,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,17),(3,18,28),(1,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,19),(2,11,17),(3,18,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,19),(3,18,28),(4,25,39)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,10),(1,7,11),(2,12,19)); lvl=3; h,r-ind=1,1
  [5,3]((1,7,9),(1,8,12),(1,10,13),(1,10,12),(1,7,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,17,23),(1,7,9),(2,17,21),(1,7,10)); lvl=3; h,r-ind=3,1; alert-h-inc
      [4,3]((1,7,10),(1,8,11),(1,8,10),(1,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,11),(1,8,10),(2,15,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(1,8,10),(2,15,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,10),(1,8,11),(2,15,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(1,7,10),(2,15,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,22),(1,8,11),(1,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,22),(2,17,21),(1,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,22),(2,17,23),(1,8,11)); lvl=4; h,r-ind=1,1
    [4,3]((2,16,23),(1,7,11),(2,17,23),(1,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,11),(1,8,11),(1,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,11),(1,8,11),(4,31,45)); lvl=4; h,r-ind=1,1
      [3,3]((2,16,23),(1,7,11),(4,31,45)); lvl=4; h,r-ind=1,1
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      [4,3]((2,17,23),(2,16,23),(1,8,11),(4,31,45)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,24,34),(4,31,45),(2,16,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,23),(3,24,34),(2,16,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,11),(2,17,23),(3,24,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,11),(3,24,34),(4,31,45)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,12),(2,16,23),(1,7,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,9,12),(2,17,23),(1,10,12),(2,17,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,11),(2,17,22),(2,17,21)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,11),(3,26,34),(5,44,57),(2,17,22)); lvl=4; h,r-ind=1,1
        [3,3]((4,35,45),(3,26,34),(5,44,57)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,11),(4,35,45),(5,44,57)); lvl=5; h,r-ind=1,1
        [3,3]((4,35,45),(2,17,22),(3,26,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,11),(4,35,45),(2,17,22)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,23),(3,26,34),(2,17,22)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,12),(2,17,23),(3,26,34),(5,44,57)); lvl=4; h,r-ind=1,1
        [3,3]((4,35,46),(2,17,23),(3,26,34)); lvl=5; h,r-ind=1,1
        [3,3]((5,44,57),(4,35,46),(3,26,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,12),(5,44,57),(4,35,46)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,12),(4,35,46),(2,17,23)); lvl=5; h,r-ind=1,1
      [4,3]((1,10,12),(1,9,12),(1,9,11),(5,44,57)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((1,9,12),(5,44,57),(2,18,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,11),(5,44,57),(2,18,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,12),(1,9,11),(2,18,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,12),(1,9,12),(2,18,23)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,12),(1,10,13),(1,10,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,12),(1,9,12),(1,10,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,12),(2,16,23),(1,9,12),(2,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,16,23),(2,17,23),(3,25,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,12),(2,17,23),(3,25,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,12),(1,9,12),(3,25,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,12),(2,16,23),(3,25,35)); lvl=4; h,r-ind=1,1
  [5,3]((1,4,7),(1,4,8),(2,11,22),(2,13,22),(1,6,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,10),(1,5,9),(3,16,29),(1,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,29),(2,10,19),(1,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(2,10,19),(1,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(1,4,8),(2,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(3,16,29),(2,10,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(1,5,9),(1,4,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,10),(1,5,9),(3,16,29),(3,17,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,9),(3,16,29),(4,22,39)); lvl=4; h,r-ind=1,1
      [3,3]((3,17,30),(3,16,29),(4,22,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(3,17,30),(4,22,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(1,5,9),(4,22,39)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(1,6,10),(1,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,11),(1,5,10),(3,16,29)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,6,11),(2,11,22),(1,5,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,11),(3,16,29),(2,12,21),(3,17,30)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,20),(7,40,71),(3,16,29),(3,17,30)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,40,71),(5,28,50),(3,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((3,16,29),(5,28,50),(3,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,20),(7,40,71),(5,28,50)); lvl=5; h,r-ind=1,1
        [3,3]((3,16,29),(2,11,20),(5,28,50)); lvl=5; h,r-ind=1,1
      [3,3]((2,12,21),(7,40,71),(3,17,30)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,11),(2,11,20),(2,12,21),(7,40,71)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,20),(7,40,71),(4,23,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,21),(7,40,71),(4,23,41)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(2,12,21),(4,23,41)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(2,11,20),(4,23,41)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,10),(2,12,21),(3,17,30),(2,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,30),(3,18,31),(2,12,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,22),(3,18,31),(2,12,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(2,13,22),(3,18,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,10),(3,17,30),(3,18,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,11),(2,12,21),(2,13,22)); lvl=3; h,r-ind=1,1
  [4,3]((2,15,24),(1,8,12),(2,14,23),(1,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,7,11),(2,14,23),(3,22,35)); lvl=3; h,r-ind=1,1
    [3,3]((2,15,24),(2,14,23),(3,22,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,12),(2,15,24),(3,22,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,12),(1,7,11),(3,22,35)); lvl=3; h,r-ind=1,1
  [5,3]((1,10,14),(2,17,28),(2,15,24),(1,8,12),(1,10,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,10,14),(1,9,14),(1,9,13),(3,26,39)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,14),(3,26,39),(2,18,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,13),(3,26,39),(2,18,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,10,14),(1,9,13),(2,18,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,10,14),(1,9,14),(2,18,27)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,12),(3,25,38),(1,9,13),(3,26,39)); lvl=3; h,r-ind=1,1
      [3,3]((3,25,38),(3,26,39),(4,34,51)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,13),(3,26,39),(4,34,51)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,12),(3,25,38),(4,34,51)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,13),(1,8,12),(4,34,51)); lvl=4; h,r-ind=1,1
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    [3,3]((1,10,13),(1,8,12),(1,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,9,14),(1,8,13),(3,26,39)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((3,25,38),(2,16,25),(1,8,13),(3,26,39)); lvl=3; h,r-ind=1,1
      [4,3]((7,58,89),(2,17,26),(2,16,25),(1,8,13)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,33,51),(1,8,13),(2,16,25)); lvl=5; h,r-ind=1,1
        [3,3]((7,58,89),(4,33,51),(2,16,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,26),(4,33,51),(1,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((7,58,89),(2,17,26),(4,33,51)); lvl=5; h,r-ind=1,1
      [3,3]((3,25,38),(7,58,89),(2,16,25)); lvl=4; h,r-ind=1,1
      [4,3]((3,25,38),(7,58,89),(3,26,39),(2,17,26)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,17,26),(7,58,89),(5,42,64)); lvl=5; h,r-ind=1,1
        [3,3]((3,25,38),(7,58,89),(5,42,64)); lvl=5; h,r-ind=1,1
        [3,3]((3,26,39),(2,17,26),(5,42,64)); lvl=5; h,r-ind=1,1
        [3,3]((3,25,38),(3,26,39),(5,42,64)); lvl=5; h,r-ind=1,1
    [4,3]((1,8,12),(2,15,24),(3,25,38),(2,16,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,24),(3,24,37),(2,16,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,25,38),(3,24,37),(2,16,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,12),(3,25,38),(3,24,37)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,12),(2,15,24),(3,24,37)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,24),(2,16,25),(1,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,17,28),(1,9,14),(1,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,10,14),(1,10,13),(1,9,13)); lvl=3; h,r-ind=1,1
  [4,3]((1,7,14),(2,11,22),(2,14,23),(2,13,22)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,12),(2,14,23),(1,6,11),(2,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,14,23),(2,13,22),(3,20,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(2,13,22),(3,20,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(2,14,23),(3,20,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(1,7,12),(3,20,34)); lvl=4; h,r-ind=1,1
    [4,3]((2,14,25),(2,13,24),(1,7,12),(1,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,11),(2,13,24),(3,20,36)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,25),(2,13,24),(3,20,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(2,14,25),(3,20,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(1,6,11),(3,20,36)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,24),(1,6,12),(1,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,12),(2,11,22),(1,6,11)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,14),(2,14,25),(2,13,24),(1,6,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,13),(4,26,49),(2,13,24),(2,14,25)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,26,49),(3,20,37),(2,13,24)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,25),(3,20,37),(2,13,24)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,13),(2,14,25),(3,20,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,13),(4,26,49),(3,20,37)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,12),(4,26,49),(2,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,13),(1,6,12),(4,26,49)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,14),(1,7,13),(1,6,12)); lvl=4; h,r-ind=1,1
  [4,3]((2,17,28),(2,15,24),(1,7,14),(2,14,23)); lvl=2; h,r-ind=1,1
    [4,3]((1,8,13),(2,15,24),(2,14,23),(1,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,24),(2,14,23),(3,22,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(2,14,23),(3,22,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,13),(2,15,24),(3,22,36)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(1,8,13),(3,22,36)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,13),(2,14,25),(2,15,26),(1,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,26),(2,14,25),(3,22,38)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(2,14,25),(3,22,38)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,13),(2,15,26),(3,22,38)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(1,8,13),(3,22,38)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,14),(1,7,14),(2,14,25),(2,15,26)); lvl=3; h,r-ind=1,1
      [4,3]((2,15,26),(4,30,53),(1,7,13),(2,14,25)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,22,39),(1,7,13),(4,30,53)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,26),(3,22,39),(4,30,53)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,25),(3,22,39),(1,7,13)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,26),(2,14,25),(3,22,39)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,14),(4,30,53),(1,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,14),(1,7,14),(1,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,26),(1,8,14),(4,30,53)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,13),(1,8,14),(2,15,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,13),(2,17,28),(1,8,14)); lvl=3; h,r-ind=1,1
[5,3]((1,4,9),(1,4,8),(1,6,14),(1,8,18),(1,7,14)); lvl=1; h,r-ind=1,2
  [4,3]((2,11,22),(1,6,13),(1,7,14),(1,7,15)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,12),(3,19,40),(1,7,14),(1,7,15)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,13,27),(1,7,14),(1,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,40),(2,13,27),(1,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(3,19,40),(2,13,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(2,13,27),(1,7,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,13),(3,19,40),(1,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,13),(1,6,12),(3,19,40)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,13),(2,11,22),(1,6,12)); lvl=3; h,r-ind=1,1
  [3,3]((1,8,18),(1,7,14),(1,7,15)); lvl=2; h,r-ind=1,1
  [4,3]((1,8,18),(1,7,16),(1,6,13),(1,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,7,16),(1,6,13),(2,14,31)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,15),(1,6,13),(2,14,31)); lvl=3; h,r-ind=1,1
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      [3,3]((1,8,18),(1,7,16),(2,14,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,15),(1,8,18),(2,14,31)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,14),(1,5,11),(1,7,16),(1,6,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,11),(1,6,13),(2,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,16),(1,6,13),(2,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,14),(1,5,11),(2,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,16),(1,6,14),(2,12,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(1,6,14),(1,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,8),(1,5,11),(2,11,22),(1,6,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,16,34),(1,6,13),(1,5,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,8),(1,5,10),(3,16,34),(1,5,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,10),(2,10,21),(3,16,34)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,11),(2,10,21),(3,16,34)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(1,5,10),(2,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,11),(1,4,8),(2,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(3,16,34),(1,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,10),(2,11,22),(1,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(1,4,8),(1,5,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,10,24),(1,6,14),(1,8,18)); lvl=1; h,r-ind=4,2; optimized-h
  [4,3]((1,10,24),(1,8,18),(1,7,14),(1,10,14)); lvl=1; h,r-ind=2,2
    [3,3]((1,8,17),(1,8,18),(1,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,8,17),(1,8,16),(1,7,14)); lvl=2; h,r-ind=1,1
    [4,3]((2,17,28),(4,34,67),(1,8,16),(1,7,14)); lvl=2; h,r-ind=1,1
      [4,3]((2,17,33),(4,34,67),(2,16,31),(1,8,16)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,25,49),(2,16,31),(1,8,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,34,67),(3,25,49),(1,8,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,17,33),(4,34,67),(3,25,49)); lvl=4; h,r-ind=1,1
        [3,3]((2,17,33),(3,25,49),(2,16,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,14),(2,16,31),(1,8,16)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,15),(2,17,31),(2,17,33),(2,16,31)); lvl=3; h,r-ind=1,1
        [3,3]((2,17,32),(2,17,33),(4,33,63)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [3,3]((2,16,31),(2,17,33),(4,33,63)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [3,3]((1,8,15),(2,16,31),(4,33,63)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,15),(2,17,32),(2,17,31),(4,33,63)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,17,31),(3,25,47),(2,17,32)); lvl=5; h,r-ind=1,1
          [3,3]((4,33,63),(3,25,47),(2,17,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,15),(2,17,31),(3,25,47)); lvl=5; h,r-ind=1,1
          [3,3]((4,33,63),(1,8,15),(3,25,47)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,14),(1,8,15),(2,16,31)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,14),(2,17,28),(1,8,15),(2,17,31)); lvl=3; h,r-ind=1,1
        [4,3]((1,8,15),(5,41,73),(2,17,31),(4,34,59)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [3,3]((2,17,30),(3,25,44),(7,58,104)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,8,15),(2,17,31),(2,17,30),(7,58,104)); lvl=5; h,r-ind=1,3
            [3,3]((3,25,45),(2,17,30),(2,17,31)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,15),(3,25,45),(2,17,31)); lvl=6; h,r-ind=1,1
            [3,3]((3,25,45),(7,58,104),(2,17,30)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,15),(3,25,45),(7,58,104)); lvl=6; h,r-ind=1,1
          [4,3]((1,8,15),(5,41,73),(3,25,44),(7,58,104)); lvl=5; h,r-ind=1,3
            [3,3]((3,25,44),(4,33,59),(5,41,73)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,15),(4,33,59),(5,41,73)); lvl=6; h,r-ind=1,1
            [3,3]((7,58,104),(3,25,44),(4,33,59)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,15),(7,58,104),(4,33,59)); lvl=6; h,r-ind=1,1
          [3,3]((2,17,30),(3,25,44),(4,34,59)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,14),(5,41,73),(2,17,28),(4,34,59)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [3,3]((3,25,44),(2,17,29),(4,34,59)); lvl=5; h,r-ind=1,1
          [3,3]((3,25,44),(2,17,29),(7,58,101)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,8,14),(2,17,29),(2,17,28),(7,58,101)); lvl=5; h,r-ind=1,3
            [3,3]((3,25,43),(2,17,29),(2,17,28)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,14),(3,25,43),(2,17,28)); lvl=6; h,r-ind=1,1
            [3,3]((7,58,101),(3,25,43),(2,17,29)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,14),(7,58,101),(3,25,43)); lvl=6; h,r-ind=1,1
          [4,3]((1,8,14),(5,41,73),(3,25,44),(7,58,101)); lvl=5; h,r-ind=1,3
            [3,3]((4,33,58),(5,41,73),(3,25,44)); lvl=6; h,r-ind=1,1
            [3,3]((7,58,101),(4,33,58),(3,25,44)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,14),(7,58,101),(4,33,58)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,14),(4,33,58),(5,41,73)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,14),(1,8,15),(5,41,73)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,14),(1,8,14),(1,8,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,17),(2,17,37),(4,34,67),(1,8,16)); lvl=2; h,r-ind=1,1
      [3,3]((1,8,16),(2,17,34),(4,34,67)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,16),(6,49,101),(2,17,34),(2,17,35)); lvl=3; h,r-ind=1,1
        [3,3]((2,17,34),(2,17,35),(3,25,51)); lvl=4; h,r-ind=1,1
        [4,3]((4,33,68),(8,66,135),(2,17,35),(3,25,51)); lvl=4; h,r-ind=1,1
          [3,3]((7,58,119),(8,66,135),(3,25,51)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,35),(7,58,119),(3,25,51)); lvl=5; h,r-ind=1,1
          [3,3]((4,33,68),(7,58,119),(8,66,135)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,35),(4,33,68),(7,58,119)); lvl=5; h,r-ind=1,1
        [4,3]((1,8,16),(4,33,68),(6,49,101),(8,66,135)); lvl=4; h,r-ind=1,1
          [3,3]((5,41,84),(4,33,68),(6,49,101)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,16),(5,41,84),(6,49,101)); lvl=5; h,r-ind=1,1
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      [3,3]((8,66,135),(5,41,84),(4,33,68)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,16),(8,66,135),(5,41,84)); lvl=5; h,r-ind=1,1
    [3,3]((1,8,16),(2,17,34),(3,25,51)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,16),(8,66,135),(3,25,51)); lvl=4; h,r-ind=1,1
  [3,3]((1,8,16),(1,8,17),(6,49,101)); lvl=3; h,r-ind=1,1
  [4,3]((1,8,17),(6,49,101),(2,17,37),(2,17,35)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
    [4,3]((1,8,17),(4,33,69),(2,17,36),(2,17,37)); lvl=4; h,r-ind=1,2
      [3,3]((3,25,53),(4,33,69),(2,17,36)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,37),(3,25,53),(2,17,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,17),(2,17,37),(3,25,53)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,17),(3,25,53),(4,33,69)); lvl=5; h,r-ind=1,1
    [3,3]((2,17,35),(4,33,69),(2,17,36)); lvl=4; h,r-ind=2,2; optimized-h
    [3,3]((4,33,68),(2,17,35),(4,33,69)); lvl=4; h,r-ind=2,2; optimized-h
    [4,3]((1,8,17),(4,33,68),(6,49,101),(4,33,69)); lvl=4; h,r-ind=1,2
      [3,3]((5,41,85),(4,33,68),(6,49,101)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,17),(5,41,85),(6,49,101)); lvl=5; h,r-ind=1,1
      [3,3]((4,33,69),(5,41,85),(4,33,68)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,17),(4,33,69),(5,41,85)); lvl=5; h,r-ind=1,1
[5,3]((1,10,24),(1,9,21),(2,17,37),(1,10,19),(4,34,67)); lvl=2; h,r-ind=1,1
  [4,3]((1,9,18),(5,44,86),(2,17,34),(4,34,67)); lvl=3; h,r-ind=1,1
    [4,3]((6,52,103),(3,26,51),(4,34,67),(2,17,34)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((5,43,85),(3,26,51),(4,34,67)); lvl=5; h,r-ind=1,1
      [3,3]((5,43,85),(2,17,34),(4,34,67)); lvl=5; h,r-ind=1,1
      [3,3]((6,52,103),(5,43,85),(2,17,34)); lvl=5; h,r-ind=1,1
      [3,3]((6,52,103),(5,43,85),(3,26,51)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,18),(6,52,103),(2,17,34)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,18),(6,52,103),(3,26,51)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,18),(5,44,86),(3,26,51)); lvl=4; h,r-ind=1,1
  [4,3]((1,9,19),(2,17,35),(1,9,18),(2,17,34)); lvl=3; h,r-ind=1,1
    [3,3]((2,17,35),(2,17,34),(3,26,53)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,18),(2,17,34),(3,26,53)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,19),(1,9,18),(3,26,53)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,19),(2,17,35),(3,26,53)); lvl=4; h,r-ind=1,1
  [4,3]((2,20,43),(1,10,19),(1,9,19),(1,9,18)); lvl=3; h,r-ind=1,1
    [3,3]((4,37,76),(1,9,19),(1,9,18)); lvl=4; h,r-ind=1,1
    [4,3]((1,10,19),(4,37,76),(2,20,41),(1,9,18)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,9,18),(4,37,76),(5,47,95),(2,19,39)); lvl=5; h,r-ind=1,3
        [3,3]((4,37,76),(3,28,57),(2,19,39)); lvl=6; h,r-ind=1,1
        [3,3]((5,47,95),(3,28,57),(2,19,39)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,18),(5,47,95),(3,28,57)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,18),(4,37,76),(3,28,57)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,20),(5,47,95),(2,19,39)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((1,10,20),(2,20,41),(2,19,39)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,18),(1,10,19),(1,10,20),(5,47,95)); lvl=5; h,r-ind=1,3
        [3,3]((2,19,38),(1,10,19),(1,10,20)); lvl=6; h,r-ind=1,1
        [3,3]((5,47,95),(2,19,38),(1,10,20)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,18),(5,47,95),(2,19,38)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,18),(2,19,38),(1,10,19)); lvl=6; h,r-ind=1,1
    [4,3]((1,10,21),(4,37,76),(2,20,41),(1,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,19),(2,19,39),(4,38,79)); lvl=5; h,r-ind=1,1
      [4,3]((1,10,21),(2,20,41),(2,19,39),(4,38,79)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,20,41),(3,29,60),(2,19,39)); lvl=6; h,r-ind=1,1
        [3,3]((4,38,79),(3,29,60),(2,19,39)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,21),(4,38,79),(3,29,60)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,21),(2,20,41),(3,29,60)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,19),(1,10,21),(4,38,79)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,19),(4,37,76),(2,19,39)); lvl=5; h,r-ind=1,1
    [3,3]((2,20,43),(1,10,21),(1,9,19)); lvl=4; h,r-ind=1,1
  [4,3]((2,17,37),(1,9,20),(1,9,19),(2,17,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,9,19),(1,9,20),(4,35,75)); lvl=4; h,r-ind=1,1
    [4,3]((2,17,36),(2,17,37),(1,9,20),(4,35,75)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,26,56),(2,17,37),(1,9,20)); lvl=5; h,r-ind=1,1
      [3,3]((4,35,75),(3,26,56),(1,9,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,36),(4,35,75),(3,26,56)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,36),(3,26,56),(2,17,37)); lvl=5; h,r-ind=1,1
    [4,3]((2,17,35),(2,17,36),(1,9,19),(4,35,75)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,17,36),(4,35,75),(3,26,55)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,19),(4,35,75),(3,26,55)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,35),(2,17,36),(3,26,55)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,19),(2,17,35),(3,26,55)); lvl=5; h,r-ind=1,1
  [3,3]((1,9,21),(2,17,37),(1,9,20)); lvl=3; h,r-ind=1,1
  [3,3]((1,10,24),(1,9,21),(1,9,20)); lvl=3; h,r-ind=1,1
  [4,3]((1,10,24),(2,20,43),(1,9,20),(1,9,19)); lvl=3; h,r-ind=1,1
    [3,3]((4,37,81),(1,9,19),(1,9,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,10,24),(4,37,81),(2,20,45),(1,9,20)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,9,20),(5,47,105),(2,19,42),(4,37,81)); lvl=5; h,r-ind=1,3
        [3,3]((5,47,105),(3,28,62),(2,19,42)); lvl=6; h,r-ind=1,1
        [3,3]((4,37,81),(3,28,62),(2,19,42)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,20),(4,37,81),(3,28,62)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,20),(5,47,105),(3,28,62)); lvl=6; h,r-ind=1,1
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        [4,3]((1,10,23),(1,10,24),(1,9,20),(5,47,105)); lvl=5; h,r-ind=1,3
          [3,3]((1,9,20),(2,19,43),(1,10,24)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,23),(2,19,43),(1,10,24)); lvl=6; h,r-ind=1,1
          [3,3]((5,47,105),(1,9,20),(2,19,43)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,23),(5,47,105),(2,19,43)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,23),(5,47,105),(2,19,42)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,10,23),(2,20,45),(2,19,42)); lvl=5; h,r-ind=1,1
      [4,3]((4,37,81),(2,20,45),(1,10,22),(1,9,19)); lvl=4; h,r-ind=1,1
        [4,3]((2,19,42),(1,10,22),(2,20,45),(4,38,83)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,29,64),(2,20,45),(1,10,22)); lvl=6; h,r-ind=1,1
          [3,3]((4,38,83),(3,29,64),(1,10,22)); lvl=6; h,r-ind=1,1
          [3,3]((2,19,42),(4,38,83),(3,29,64)); lvl=6; h,r-ind=1,1
          [3,3]((2,19,42),(3,29,64),(2,20,45)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,19),(2,19,42),(4,38,83)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,19),(2,19,42),(4,37,81)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,19),(1,10,22),(4,38,83)); lvl=5; h,r-ind=1,1
      [3,3]((1,10,22),(2,20,43),(1,9,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,10,19),(1,9,18),(5,44,86)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,17,28),(1,10,14),(1,10,19),(4,34,67)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((1,9,14),(1,9,16),(1,10,14),(2,20,33)); lvl=3; h,r-ind=1,1
      [4,3]((1,9,15),(1,9,16),(1,10,16),(2,20,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,19,31),(1,9,16),(1,10,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,20,31),(2,19,31),(1,10,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,15),(2,20,31),(2,19,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,15),(2,19,31),(1,9,16)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,14),(1,9,15),(1,10,14),(2,20,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,15),(1,10,15),(3,28,44)); lvl=5; h,r-ind=1,1
        [4,3]((1,9,14),(1,10,14),(1,10,15),(3,28,44)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,19,29),(1,10,14),(1,10,15)); lvl=6; h,r-ind=1,1
          [3,3]((3,28,44),(2,19,29),(1,10,15)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,14),(3,28,44),(2,19,29)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,14),(2,19,29),(1,10,14)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,15),(1,9,14),(3,28,44)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,15),(2,20,31),(1,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,16),(2,20,33),(1,10,16)); lvl=4; h,r-ind=1,1
    [4,3]((1,9,17),(1,9,16),(1,10,19),(2,20,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,16),(2,20,33),(1,10,17)); lvl=4; h,r-ind=1,1
      [4,3]((4,37,67),(1,9,16),(2,20,35),(1,10,17)); lvl=4; h,r-ind=1,1
        [4,3]((2,20,35),(2,19,34),(4,38,67),(1,10,17)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,29,51),(4,38,67),(2,19,34)); lvl=6; h,r-ind=1,1
          [3,3]((2,20,35),(3,29,51),(2,19,34)); lvl=6; h,r-ind=1,1
          [3,3]((3,29,51),(1,10,17),(4,38,67)); lvl=6; h,r-ind=1,1
          [3,3]((2,20,35),(3,29,51),(1,10,17)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,16),(4,38,67),(1,10,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,16),(2,19,34),(4,38,67)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,16),(4,37,67),(2,19,34)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,17),(4,37,67),(1,9,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,17),(4,37,67),(1,10,19),(2,20,35)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((1,10,18),(2,19,34),(5,47,86)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,9,17),(1,10,19),(1,10,18),(5,47,86)); lvl=5; h,r-ind=1,3
          [3,3]((1,10,18),(1,10,19),(2,19,35)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,17),(1,10,19),(2,19,35)); lvl=6; h,r-ind=1,1
          [3,3]((5,47,86),(1,10,18),(2,19,35)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,17),(5,47,86),(2,19,35)); lvl=6; h,r-ind=1,1
        [4,3]((1,9,17),(4,37,67),(2,19,34),(5,47,86)); lvl=5; h,r-ind=1,3
          [3,3]((3,28,51),(4,37,67),(2,19,34)); lvl=6; h,r-ind=1,1
          [3,3]((5,47,86),(3,28,51),(2,19,34)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,17),(5,47,86),(3,28,51)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,17),(3,28,51),(4,37,67)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,18),(2,19,34),(2,20,35)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,17),(5,44,86),(1,10,19)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((2,17,31),(1,9,17),(1,9,16),(2,17,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,16),(1,9,17),(4,35,65)); lvl=4; h,r-ind=1,1
      [4,3]((2,17,32),(2,17,33),(1,9,17),(4,35,65)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,26,49),(2,17,33),(1,9,17)); lvl=5; h,r-ind=1,1
        [3,3]((4,35,65),(3,26,49),(1,9,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,32),(4,35,65),(3,26,49)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,32),(3,26,49),(2,17,33)); lvl=5; h,r-ind=1,1
      [4,3]((2,17,31),(2,17,32),(1,9,16),(4,35,65)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,17,32),(4,35,65),(3,26,48)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,16),(4,35,65),(3,26,48)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,31),(2,17,32),(3,26,48)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,16),(2,17,31),(3,26,48)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,17),(2,17,33),(4,34,67),(5,44,86)); lvl=3; h,r-ind=1,1
      [4,3]((3,26,51),(2,17,33),(4,34,67),(6,52,101)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,43,84),(4,34,67),(2,17,33)); lvl=5; h,r-ind=1,1
        [3,3]((6,52,101),(5,43,84),(2,17,33)); lvl=5; h,r-ind=1,1
        [3,3]((3,26,51),(6,52,101),(5,43,84)); lvl=5; h,r-ind=1,1
        [3,3]((3,26,51),(5,43,84),(4,34,67)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,17),(3,26,51),(6,52,101)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((1,9,17),(3,26,51),(5,44,86)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,17),(2,17,33),(6,52,101)); lvl=4; h,r-ind=1,1
      [4,3]((2,17,28),(1,9,14),(2,17,31),(1,9,16)); lvl=3; h,r-ind=1,1
        [4,3]((2,17,31),(4,34,59),(1,9,16),(1,9,15)); lvl=4; h,r-ind=1,1
          [3,3]((1,9,16),(4,35,61),(1,9,15)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,30),(4,35,61),(1,9,15)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,30),(4,34,59),(1,9,15)); lvl=5; h,r-ind=1,1
          [4,3]((2,17,31),(2,17,30),(1,9,16),(4,35,61)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,26,46),(2,17,30),(4,35,61)); lvl=6; h,r-ind=1,1
            [3,3]((3,26,46),(1,9,16),(4,35,61)); lvl=6; h,r-ind=1,1
            [3,3]((2,17,31),(3,26,46),(1,9,16)); lvl=6; h,r-ind=1,1
            [3,3]((2,17,31),(3,26,46),(2,17,30)); lvl=6; h,r-ind=1,1
        [4,3]((2,17,28),(4,34,59),(1,9,14),(1,9,15)); lvl=4; h,r-ind=1,1
          [3,3]((1,9,14),(4,35,58),(1,9,15)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,29),(4,35,58),(1,9,15)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,29),(4,34,59),(1,9,15)); lvl=5; h,r-ind=1,1
          [4,3]((2,17,28),(2,17,29),(1,9,14),(4,35,58)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,17,29),(4,35,58),(3,26,43)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,14),(4,35,58),(3,26,43)); lvl=6; h,r-ind=1,1
            [3,3]((2,17,28),(2,17,29),(3,26,43)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,14),(2,17,28),(3,26,43)); lvl=6; h,r-ind=1,1
    [4,3]((1,9,21),(1,8,17),(2,17,37),(1,8,18)); lvl=2; h,r-ind=1,1
      [3,3]((2,17,38),(2,17,37),(1,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,18),(2,17,38),(1,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,21),(1,8,18),(2,17,38)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,21),(2,17,38),(2,17,37)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,10,14),(1,10,12)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,10,24),(0,1,0),(1,10,14)); lvl=1; h,r-ind=10,10; optimized-h
```

24.19 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,11,24)); lvl=0; h,r-ind=24,576
  [5,3]((1,2,4),(2,13,26),(1,2,3),(1,11,13),(1,11,12)); lvl=1; h,r-ind=9,1
    [4,3]((2,13,15),(2,13,17),(1,10,12),(1,11,12)); lvl=2; h,r-ind=1,1
      [4,3]((2,17,19),(1,11,12),(1,8,10),(1,10,12)); lvl=3; h,r-ind=1,1
        [4,3]((2,19,21),(1,11,12),(1,10,12),(1,9,11)); lvl=4; h,r-ind=1,1
          [4,3]((1,10,11),(3,29,34),(1,10,12),(1,11,12)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,20,23),(3,29,34),(1,10,12)); lvl=6; h,r-ind=1,1
            [3,3]((1,11,12),(2,20,23),(1,10,12)); lvl=6; h,r-ind=1,1
            [3,3]((1,10,11),(1,11,12),(2,20,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,10,11),(2,20,23),(3,29,34)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,11),(1,10,11),(3,29,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,11),(2,19,21),(1,10,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,11),(3,29,34),(1,10,12)); lvl=5; h,r-ind=1,1
        [4,3]((2,19,21),(1,9,10),(1,8,10),(1,9,11)); lvl=4; h,r-ind=1,1
          [3,3]((2,18,21),(1,8,10),(1,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,19,21),(2,18,21),(1,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,18,21),(1,9,11),(1,8,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,19,21),(2,18,21),(1,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,19),(1,9,10),(1,8,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,8),(2,17,19),(1,7,9),(1,8,10)); lvl=3; h,r-ind=1,1
        [3,3]((1,8,9),(1,8,10),(2,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(3,23,28),(1,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,9),(3,23,28),(1,8,10)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,8),(1,8,9),(1,7,9),(3,23,28)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,15,18),(3,23,28),(1,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(2,15,18),(1,8,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,9),(2,15,18),(3,23,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,8),(1,7,9),(2,15,18)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,16),(1,7,8),(1,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,16),(2,13,17),(1,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,16),(2,13,15),(1,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,11,13),(1,10,12),(1,11,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(1,2,3),(2,13,15),(2,13,17)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,8),(1,5,7),(1,6,7),(2,9,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,7),(1,5,6),(3,16,21)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,8),(1,6,7),(1,5,6),(3,16,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,14),(1,6,7),(1,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,21),(2,11,14),(1,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,8),(3,16,21),(2,11,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,8),(2,11,14),(1,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(1,5,7),(3,16,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,7),(2,9,11),(1,5,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,5),(1,5,7),(1,2,3),(2,9,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,7),(2,9,11),(1,4,5)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,6),(2,7,9),(1,5,7),(1,4,5)); lvl=4; h,r-ind=1,1
          [3,3]((2,8,11),(1,4,5),(2,7,9)); lvl=5; h,r-ind=1,1
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        [3,3]((1,4,6),(2,8,11),(2,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,11),(1,5,7),(1,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(2,8,11),(1,5,7)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,6),(1,3,5),(2,7,9),(1,2,3)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,4),(1,3,5),(1,2,3),(3,10,15)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,6,9),(1,3,5),(1,2,3)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(2,6,9),(1,2,3)); lvl=6; h,r-ind=1,1
          [3,3]((3,10,15),(2,6,9),(1,3,5)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,4),(3,10,15),(2,6,9)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,6),(1,3,4),(3,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(1,3,4),(2,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,6),(1,3,5),(3,10,15)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,8),(2,13,16),(1,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,16),(2,13,15),(1,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,17),(1,6,8),(2,13,16)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,4),(1,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
  [5,3]((2,13,17),(1,8,12),(1,10,12),(4,26,41),(1,7,11)); lvl=2; h,r-ind=1,1
    [5,3]((2,15,21),(1,9,12),(1,8,12),(3,22,33),(4,29,43)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,11),(4,31,45),(1,8,12),(1,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,16,23),(1,8,12),(4,31,45)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,11),(2,16,23),(4,31,45)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,11),(1,9,12),(2,16,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,12),(2,16,23),(1,8,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,11),(4,31,45),(2,15,22)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,11),(2,15,21),(3,22,32),(2,15,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,21),(3,22,32),(4,30,43)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,22),(3,22,32),(4,30,43)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,11),(2,15,22),(4,30,43)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,11),(2,15,21),(4,30,43)); lvl=5; h,r-ind=1,1
      [3,3]((4,29,43),(3,22,32),(2,15,22)); lvl=4; h,r-ind=1,1
      [3,3]((4,31,45),(2,15,22),(1,8,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,22),(1,8,12),(3,22,33)); lvl=4; h,r-ind=1,1
      [3,3]((4,29,43),(2,15,22),(3,22,33)); lvl=4; h,r-ind=1,1
    [4,3]((2,14,21),(1,7,11),(3,22,33),(4,29,43)); lvl=3; h,r-ind=1,1
      [3,3]((5,36,54),(1,7,11),(3,22,33)); lvl=4; h,r-ind=1,1
      [3,3]((4,29,43),(5,36,54),(3,22,33)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,21),(4,29,43),(5,36,54)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,21),(5,36,54),(1,7,11)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,20),(4,26,41),(2,14,21),(1,7,11)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,14,21),(3,20,31),(1,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,26,41),(3,20,31),(1,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,20),(4,26,41),(3,20,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,20),(2,14,21),(3,20,31)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,19),(1,7,10),(2,13,20),(2,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,20,30),(1,7,10),(2,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,20),(3,20,30),(2,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,19),(2,13,20),(3,20,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,19),(3,20,30),(1,7,10)); lvl=4; h,r-ind=1,1
    [4,3]((2,13,17),(1,7,9),(2,13,19),(1,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(1,7,10),(4,27,37)); lvl=4; h,r-ind=1,1
      [4,3]((2,13,18),(2,13,19),(1,7,10),(4,27,37)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,19),(1,7,10),(3,20,28)); lvl=5; h,r-ind=1,1
        [3,3]((4,27,37),(1,7,10),(3,20,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,18),(4,27,37),(3,20,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,18),(2,13,19),(3,20,28)); lvl=5; h,r-ind=1,1
      [4,3]((2,13,17),(2,13,18),(1,7,9),(4,27,37)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,18),(4,27,37),(3,20,27)); lvl=5; h,r-ind=1,1
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        [3,3]((2,13,17),(2,13,18),(3,20,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,9),(2,13,17),(3,20,27)); lvl=5; h,r-ind=1,1
    [4,3]((1,7,10),(2,14,21),(2,15,21),(4,29,43)); lvl=3; h,r-ind=1,1
      [4,3]((2,14,21),(6,43,63),(3,22,32),(4,29,43)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,36,53),(3,22,32),(6,43,63)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,21),(5,36,53),(6,43,63)); lvl=5; h,r-ind=1,1
        [3,3]((5,36,53),(4,29,43),(3,22,32)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,21),(5,36,53),(4,29,43)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,10),(2,14,21),(6,43,63)); lvl=4; h,r-ind=1,1
      [4,3]((2,15,21),(1,7,10),(6,43,63),(3,22,32)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,29,42),(6,43,63),(1,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,21),(4,29,42),(1,7,10)); lvl=5; h,r-ind=1,1
        [3,3]((4,29,42),(3,22,32),(6,43,63)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,21),(4,29,42),(3,22,32)); lvl=5; h,r-ind=1,1
    [4,3]((2,15,21),(1,8,10),(1,9,12),(1,10,12)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,11),(1,9,12),(1,9,11),(1,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,12),(1,10,12),(2,18,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,11),(1,10,12),(2,18,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,11),(1,9,11),(2,18,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,11),(1,9,12),(2,18,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,11),(1,8,10),(1,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,11),(2,15,21),(1,8,10)); lvl=4; h,r-ind=1,1
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    [3,3]((2,15,20),(1,7,10),(2,15,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,10),(2,15,20),(2,15,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,9),(2,15,20),(1,7,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,10),(1,7,9),(2,15,20)); lvl=4; h,r-ind=1,1
  [3,3]((1,7,11),(1,8,12),(3,22,33)); lvl=3; h,r-ind=1,1
[4,3]((1,11,13),(2,17,26),(1,8,12),(1,10,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,9,13),(1,8,12),(2,17,26)); lvl=3; h,r-ind=1,1
  [4,3]((1,9,13),(2,19,26),(1,9,12),(1,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,9,12),(2,19,26),(2,18,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,13),(2,19,26),(2,18,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,13),(1,8,12),(2,18,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,12),(1,9,12),(2,18,25)); lvl=4; h,r-ind=1,1
  [4,3]((1,11,13),(2,19,26),(1,10,12),(1,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,10,13),(1,9,12),(3,29,37)); lvl=4; h,r-ind=1,1
    [3,3]((1,10,12),(1,9,12),(3,29,37)); lvl=4; h,r-ind=1,1
    [4,3]((1,11,13),(1,10,12),(1,10,13),(3,29,37)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((2,20,25),(1,10,12),(3,29,37)); lvl=5; h,r-ind=1,1
      [3,3]((1,10,13),(2,20,25),(3,29,37)); lvl=5; h,r-ind=1,1
      [3,3]((1,11,13),(2,20,25),(1,10,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,10,13),(1,11,13),(2,20,25)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,13),(2,19,26),(1,9,12)); lvl=4; h,r-ind=1,1
[4,3]((1,7,13),(2,17,26),(1,8,12),(1,7,11)); lvl=2; h,r-ind=1,1
  [4,3]((1,8,13),(2,17,26),(1,8,12),(4,31,49)); lvl=3; h,r-ind=1,3; alert-r-inc
    [3,3]((1,8,12),(2,16,25),(2,17,26)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,13),(2,16,25),(2,17,26)); lvl=4; h,r-ind=1,1
    [3,3]((4,31,49),(1,8,12),(2,16,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,13),(4,31,49),(2,16,25)); lvl=4; h,r-ind=1,1
  [4,3]((1,7,11),(2,15,24),(1,8,12),(4,31,49)); lvl=3; h,r-ind=1,1
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  [4,3]((1,7,12),(2,15,24),(1,8,13),(4,31,49)); lvl=3; h,r-ind=1,1
    [3,3]((3,23,37),(2,15,24),(4,31,49)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,13),(3,23,37),(4,31,49)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,12),(3,23,37),(2,15,24)); lvl=4; h,r-ind=1,1
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  [3,3]((1,7,13),(1,7,12),(1,8,13)); lvl=3; h,r-ind=1,1
[3,3]((2,13,26),(1,7,13),(1,6,12)); lvl=2; h,r-ind=1,1
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    [4,3]((1,6,8),(4,25,35),(2,13,18),(2,13,17)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,19,26),(4,25,35),(2,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,17),(3,19,26),(2,13,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(2,13,17),(3,19,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,8),(3,19,26),(4,25,35)); lvl=5; h,r-ind=1,1
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    [4,3]((2,13,19),(1,6,9),(4,25,35),(2,13,18)); lvl=4; h,r-ind=1,2; alert-r-inc
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      [3,3]((2,13,18),(4,25,35),(3,19,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,19),(2,13,18),(3,19,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,13,19),(1,6,9),(3,19,27)); lvl=5; h,r-ind=1,1
  [4,3]((1,6,9),(2,12,19),(2,13,20),(2,13,19)); lvl=3; h,r-ind=1,1
    [3,3]((3,19,29),(2,13,20),(2,12,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,9),(3,19,29),(2,12,19)); lvl=4; h,r-ind=1,1
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    [3,3]((3,19,29),(2,13,19),(2,13,20)); lvl=4; h,r-ind=1,1
  [4,3]((2,12,19),(1,6,10),(4,26,41),(2,13,20)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((1,6,10),(3,19,30),(4,26,41)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,20),(3,19,30),(4,26,41)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,19),(1,6,10),(3,19,30)); lvl=4; h,r-ind=1,1
    [3,3]((2,13,20),(2,12,19),(3,19,30)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,9),(2,11,17),(2,12,19),(4,23,37)); lvl=3; h,r-ind=1,1
    [4,3]((2,12,19),(6,35,55),(3,17,27),(4,23,37)); lvl=4; h,r-ind=1,2; alert-r-inc
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      [3,3]((2,12,19),(6,35,55),(5,29,46)); lvl=5; h,r-ind=1,1
      [3,3]((4,23,37),(3,17,27),(5,29,46)); lvl=5; h,r-ind=1,1
      [3,3]((2,12,19),(4,23,37),(5,29,46)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,9),(2,12,19),(6,35,55)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,9),(6,35,55),(2,11,17),(3,17,27)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((6,35,55),(4,23,36),(3,17,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,17),(4,23,36),(3,17,27)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(2,11,17),(4,23,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,9),(6,35,55),(4,23,36)); lvl=5; h,r-ind=1,1
  [4,3]((2,12,19),(1,6,10),(4,23,37),(3,17,28)); lvl=3; h,r-ind=1,1
    [3,3]((3,17,28),(1,6,10),(5,29,47)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,19),(1,6,10),(5,29,47)); lvl=4; h,r-ind=1,1
    [3,3]((4,23,37),(2,12,19),(5,29,47)); lvl=4; h,r-ind=1,1
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      [3,3]((4,23,37),(3,17,28),(5,29,47)); lvl=4; h,r-ind=1,1
    [5,3]((1,4,7),(2,11,17),(1,5,9),(4,23,37),(3,17,28)); lvl=3; h,r-ind=1,1
      [3,3]((4,23,37),(3,17,27),(2,11,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,8),(2,11,17),(3,17,27),(2,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,17),(3,17,27),(4,22,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,18),(3,17,27),(4,22,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(2,11,17),(4,22,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,18),(1,5,8),(4,22,35)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(4,21,35),(2,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(4,21,35),(2,11,18)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,7),(1,5,8),(1,5,9),(4,21,35)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,17),(1,5,8),(4,21,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,17),(1,5,9),(4,21,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(2,10,17),(1,5,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(2,10,17),(1,5,8)); lvl=5; h,r-ind=1,1
      [3,3]((3,17,28),(4,23,37),(2,11,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(3,17,28),(2,11,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(1,5,9),(3,17,28)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,9),(1,5,7),(2,11,17),(1,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,16),(1,5,7),(2,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(2,11,16),(2,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(1,6,8),(2,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,16),(1,5,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,5),(1,4,7),(1,5,7),(2,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,17),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(1,4,6),(1,5,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,5),(1,4,6),(1,4,7),(1,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(1,5,8),(2,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(1,5,8),(2,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(1,4,6),(2,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,7),(1,3,5),(2,8,13)); lvl=5; h,r-ind=1,1
  [4,3]((1,6,12),(1,6,10),(2,9,18),(1,5,9)); lvl=2; h,r-ind=1,1
    [4,3]((4,21,39),(1,6,10),(2,11,20),(1,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,29),(2,11,20),(1,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(3,16,29),(1,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,21,39),(1,5,9),(3,16,29)); lvl=4; h,r-ind=1,1
      [3,3]((4,21,39),(3,16,29),(2,11,20)); lvl=4; h,r-ind=1,1
    [4,3]((2,9,18),(1,5,10),(4,21,39),(1,5,9)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((1,5,10),(4,21,39),(2,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(4,21,39),(2,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,18),(1,5,10),(2,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,9,18),(2,10,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(1,6,11),(2,11,20)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,10),(4,21,39),(1,6,11),(2,11,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,30),(2,11,20),(4,21,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(3,16,30),(4,21,39)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,30),(1,6,11),(2,11,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(3,16,30),(1,6,11)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,12),(1,5,10),(1,6,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,4),(1,3,5),(2,9,18),(1,5,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,8),(2,7,14),(1,5,9),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,14),(1,4,7),(2,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(1,4,7),(2,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(2,7,14),(2,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,9),(2,8,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(2,7,14),(1,3,5),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,4,7),(2,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(3,10,18),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,18),(1,3,5),(1,4,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,4),(1,3,6),(3,10,18),(1,3,5)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,6),(3,10,18),(2,6,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(3,10,18),(2,6,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(1,3,5),(2,6,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(1,3,6),(2,6,11)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,18),(1,4,8),(1,5,9)); lvl=3; h,r-ind=1,1
  [5,3]((1,7,13),(1,6,12),(1,6,10),(4,26,41),(1,7,11)); lvl=2; h,r-ind=1,1
    [5,3]((1,7,12),(1,7,13),(1,6,11),(4,26,45),(1,6,12)); lvl=3; h,r-ind=1,1
      [5,3]((1,6,12),(1,7,13),(3,19,35),(4,26,47),(3,20,36)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,24),(4,26,47),(3,19,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,12),(2,13,24),(3,19,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,24),(3,20,36),(4,26,47)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,24),(1,7,13),(3,20,36)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,12),(2,13,24),(1,7,13)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,12),(2,13,23),(4,26,47),(3,20,36)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,23),(4,26,47),(5,33,59)); lvl=5; h,r-ind=1,1
        [3,3]((3,20,36),(4,26,47),(5,33,59)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,12),(3,20,36),(5,33,59)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,12),(2,13,23),(5,33,59)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,12),(2,13,23),(4,26,45)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(1,7,13),(3,20,36)); lvl=4; h,r-ind=1,1
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      [3,3]((1,6,11),(1,6,12),(3,19,35)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,11),(2,13,23),(3,19,35),(4,26,47)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,23),(4,26,47),(5,32,58)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,35),(4,26,47),(5,32,58)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,11),(2,13,23),(5,32,58)); lvl=5; h,r-ind=1,1
        [3,3]((3,19,35),(1,6,11),(5,32,58)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,11),(2,13,23),(4,26,45)); lvl=4; h,r-ind=1,1
    [4,3]((1,7,12),(1,7,11),(4,26,45),(2,13,21)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,11),(2,13,22),(2,13,21),(4,27,45)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,21),(3,20,33),(2,13,22)); lvl=5; h,r-ind=1,1
        [3,3]((4,27,45),(3,20,33),(2,13,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,11),(4,27,45),(3,20,33)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,11),(2,13,21),(3,20,33)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,12),(1,7,11),(4,27,45)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(2,13,22),(4,27,45)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,12),(2,13,22),(4,26,45)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,10),(1,6,11),(4,26,45),(2,13,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,11),(2,13,22),(4,25,43)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,10),(2,13,21),(2,13,22),(4,25,43)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,21),(3,19,32),(2,13,22)); lvl=5; h,r-ind=1,1
        [3,3]((4,25,43),(3,19,32),(2,13,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,10),(2,13,21),(3,19,32)); lvl=5; h,r-ind=1,1
        [3,3]((4,25,43),(1,6,10),(3,19,32)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(1,6,11),(4,25,43)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,11),(4,26,45),(2,13,22)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,10),(2,13,21),(4,26,41)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,11),(2,13,21),(4,26,41)); lvl=3; h,r-ind=1,1
[3,3]((0,1,0),(1,11,13),(1,11,12)); lvl=1; h,r-ind=1,1
[3,3]((1,11,24),(0,1,0),(1,11,13)); lvl=1; h,r-ind=11,11; optimized-h
[4,3]((1,0,0),(0,1,0),(1,2,3),(1,11,12)); lvl=1; h,r-ind=3,3
  [4,3]((1,2,3),(2,13,15),(1,1,1),(1,6,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,6),(2,13,15),(1,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,11),(2,7,7),(1,6,6),(1,6,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,7),(1,5,6),(1,6,6),(2,9,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(1,5,5),(3,16,18)); lvl=5; h,r-ind=1,1
        [4,3]((1,6,7),(1,6,6),(1,5,5),(3,16,18)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,12),(1,5,5),(1,6,6)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,7),(2,11,12),(1,6,6)); lvl=6; h,r-ind=1,1
          [3,3]((2,11,12),(3,16,18),(1,5,5)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,7),(2,11,12),(3,16,18)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,7),(1,5,6),(3,16,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(2,9,9),(1,5,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,4),(2,9,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,9),(1,5,6),(1,4,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,9),(2,9,11),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,9),(2,7,7),(1,4,4)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,3),(2,9,11),(1,1,1),(2,7,7)); lvl=3; h,r-ind=5,1; alert-h-inc
      [3,3]((1,3,3),(2,7,7),(2,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,3),(2,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,11),(1,4,5),(2,8,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,5),(2,7,9),(2,5,5),(1,3,3)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,3),(4,13,15),(2,6,7),(2,5,5)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,9,10),(4,13,15),(2,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,5),(3,9,10),(2,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,3),(2,5,5),(3,9,10)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,3),(3,9,10),(4,13,15)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(1,3,3),(4,13,15)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,5),(4,13,15),(2,7,9),(2,6,7)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,10,12),(4,13,15),(2,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,9),(3,10,12),(2,6,7)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(2,7,9),(3,10,12)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(3,10,12),(4,13,15)); lvl=6; h,r-ind=1,1
      [4,3]((1,2,3),(1,1,1),(2,7,9),(2,5,5)); lvl=4; h,r-ind=3,1
        [3,3]((2,6,7),(1,2,2),(2,5,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(2,6,7),(1,2,2)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,3),(1,3,4),(1,1,1),(1,2,2)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(1,2,2),(2,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(1,2,2),(2,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,3),(1,3,4),(2,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(1,2,3),(2,4,5)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(2,6,7),(2,7,9)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,6,6)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,11,12),(2,13,15),(1,6,6)); lvl=2; h,r-ind=3,3
    [5,3]((1,7,8),(1,9,9),(2,17,19),(1,7,7),(3,20,21)); lvl=3; h,r-ind=1,1
      [4,3]((4,31,33),(2,14,15),(1,8,9),(1,7,8)); lvl=4; h,r-ind=1,1
        [4,3]((2,14,15),(2,15,16),(1,7,8),(4,30,33)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,22,24),(2,15,16),(4,30,33)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,8),(3,22,24),(4,30,33)); lvl=6; h,r-ind=1,1
          [3,3]((2,14,15),(3,22,24),(2,15,16)); lvl=6; h,r-ind=1,1
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            [3,3]((1,7,8),(2,14,15),(3,22,24)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,9),(1,7,8),(4,30,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(2,15,16),(4,30,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(4,31,33),(2,15,16)); lvl=5; h,r-ind=1,1
        [3,3]((3,20,21),(2,14,15),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,7),(3,20,21),(2,14,15)); lvl=4; h,r-ind=1,1
        [4,3]((1,9,9),(1,8,8),(4,31,33),(1,8,9)); lvl=4; h,r-ind=1,1
          [3,3]((1,8,8),(2,16,17),(4,31,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(2,16,17),(4,31,33)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,9),(1,8,8),(2,16,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,9),(1,9,9),(2,16,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,9),(2,17,19),(1,8,9)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,7),(1,8,8),(4,31,33),(2,14,15)); lvl=4; h,r-ind=1,1
          [3,3]((2,15,16),(1,8,8),(4,31,33)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,16),(1,8,8),(4,30,31)); lvl=5; h,r-ind=1,1
          [4,3]((1,7,7),(2,15,16),(2,14,15),(4,30,31)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,14,15),(2,15,16),(3,22,23)); lvl=6; h,r-ind=1,1
            [3,3]((4,30,31),(2,15,16),(3,22,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,7,7),(4,30,31),(3,22,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,7,7),(2,14,15),(3,22,23)); lvl=6; h,r-ind=1,1
          [3,3]((1,7,7),(1,8,8),(4,30,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,6),(1,7,7),(3,20,21)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(1,7,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,6),(2,13,15),(1,7,8),(3,20,21)); lvl=3; h,r-ind=1,1
        [3,3]((2,13,14),(1,7,8),(2,13,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(2,13,14),(2,13,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,20,21),(2,13,14),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(3,20,21),(2,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,9,9),(1,7,7)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((0,1,0),(1,11,12),(1,9,9),(2,17,19)); lvl=3; h,r-ind=1,1
        [4,3]((1,9,9),(2,19,19),(1,9,10),(2,17,19)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,19,19),(2,18,19),(1,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,19),(2,18,19),(1,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,9),(2,19,19),(2,18,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,17,19),(1,9,9),(2,18,19)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(1,9,9),(2,19,19)); lvl=4; h,r-ind=1,1
        [4,3]((0,1,0),(2,19,19),(2,19,21),(1,9,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,10,10),(2,19,19),(1,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,19,21),(1,10,10),(1,9,10)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(2,19,21),(1,10,10)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(1,10,10),(2,19,19)); lvl=5; h,r-ind=1,1
        [3,3]((0,1,0),(1,11,12),(2,19,21)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(1,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
  [4,3]((1,11,24),(2,17,36),(2,13,26),(1,11,13)); lvl=1; h,r-ind=1,5
    [4,3]((1,7,14),(2,16,33),(2,13,26),(2,15,31)); lvl=2; h,r-ind=1,1
      [3,3]((2,15,31),(2,16,33),(3,22,45)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,14),(2,16,33),(3,22,45)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,26),(1,7,14),(3,22,45)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,26),(2,15,31),(3,22,45)); lvl=3; h,r-ind=1,1
    [4,3]((2,17,36),(1,9,19),(2,16,33),(2,15,31)); lvl=2; h,r-ind=1,1
      [3,3]((1,9,19),(2,16,33),(3,24,50)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,31),(2,16,33),(3,24,50)); lvl=3; h,r-ind=1,1
      [3,3]((2,17,36),(1,9,19),(3,24,50)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,31),(2,17,36),(3,24,50)); lvl=3; h,r-ind=1,1
    [3,3]((1,11,24),(2,17,36),(1,9,19)); lvl=2; h,r-ind=1,1
    [5,3]((1,8,16),(2,19,40),(2,17,34),(1,9,19),(2,16,33)); lvl=2; h,r-ind=1,1
      [4,3]((2,17,34),(3,26,53),(5,43,88),(1,8,16)); lvl=3; h,r-ind=1,1
        [3,3]((4,34,69),(5,43,88),(3,26,53)); lvl=4; h,r-ind=1,1
        [3,3]((2,17,34),(4,34,69),(3,26,53)); lvl=4; h,r-ind=1,1
        [3,3]((4,34,69),(1,8,16),(5,43,88)); lvl=4; h,r-ind=1,1
        [3,3]((2,17,34),(4,34,69),(1,8,16)); lvl=4; h,r-ind=1,1
      [4,3]((2,17,35),(6,52,107),(5,43,88),(1,8,16)); lvl=3; h,r-ind=1,1
        [3,3]((7,60,123),(5,43,88),(6,52,107)); lvl=4; h,r-ind=1,1
        [3,3]((2,17,35),(7,60,123),(6,52,107)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,16),(2,17,35),(7,60,123)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,16),(7,60,123),(5,43,88)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,35),(2,16,33),(1,8,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,17,35),(2,16,33),(1,9,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,18,37),(2,17,34),(3,26,53)); lvl=3; h,r-ind=1,1
      [6,3]((6,52,107),(5,44,91),(3,27,56),(2,18,37),(3,26,53),(5,43,88)); lvl=3; h,r-ind=1,1
        [3,3]((4,35,72),(2,18,37),(3,27,56)); lvl=4; h,r-ind=1,1
        [3,3]((5,44,91),(4,35,72),(3,27,56)); lvl=4; h,r-ind=1,1
        [3,3]((5,44,91),(6,52,107),(4,35,72)); lvl=4; h,r-ind=1,1
        [3,3]((4,35,72),(2,18,37),(3,26,53)); lvl=4; h,r-ind=1,1
        [3,3]((5,43,88),(4,35,72),(3,26,53)); lvl=4; h,r-ind=1,1
        [3,3]((6,52,107),(5,43,88),(4,35,72)); lvl=4; h,r-ind=1,1
      [4,3]((2,17,35),(6,52,107),(5,44,91),(1,9,19)); lvl=3; h,r-ind=1,1
        [3,3]((7,61,126),(5,44,91),(6,52,107)); lvl=4; h,r-ind=1,1
        [3,3]((2,17,35),(7,61,126),(6,52,107)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,19),(2,17,35),(7,61,126)); lvl=4; h,r-ind=1,1
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      [3,3]((1,9,19),(7,61,126),(5,44,91)); lvl=4; h,r-ind=1,1
    [4,3]((2,19,40),(5,44,91),(3,27,56),(1,9,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,27,56),(4,36,75),(5,44,91)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,19),(4,36,75),(5,44,91)); lvl=4; h,r-ind=1,1
      [3,3]((2,19,40),(3,27,56),(4,36,75)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,19),(2,19,40),(4,36,75)); lvl=4; h,r-ind=1,1
    [3,3]((2,19,40),(3,27,56),(2,18,37)); lvl=3; h,r-ind=1,1
  [3,3]((1,11,24),(2,19,40),(1,9,19)); lvl=2; h,r-ind=1,1
  [5,3]((1,11,24),(2,22,37),(2,17,32),(2,19,40),(2,17,34)); lvl=2; h,r-ind=1,1
    [4,3]((2,18,35),(2,17,34),(2,17,33),(1,9,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,26,51),(2,17,33),(2,17,34)); lvl=4; h,r-ind=1,1
      [3,3]((3,26,51),(1,9,18),(2,17,34)); lvl=4; h,r-ind=1,1
      [3,3]((2,18,35),(3,26,51),(1,9,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,18,35),(3,26,51),(2,17,33)); lvl=4; h,r-ind=1,1
    [4,3]((2,19,37),(2,19,39),(2,18,35),(1,9,18)); lvl=3; h,r-ind=1,1
      [3,3]((4,37,73),(2,18,35),(1,9,18)); lvl=4; h,r-ind=1,1
      [4,3]((2,19,39),(2,19,38),(4,37,73),(1,9,18)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,19,38),(4,37,73),(3,28,56)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,18),(4,37,73),(3,28,56)); lvl=5; h,r-ind=1,1
        [3,3]((2,19,39),(1,9,18),(3,28,56)); lvl=5; h,r-ind=1,1
        [3,3]((2,19,39),(2,19,38),(3,28,56)); lvl=5; h,r-ind=1,1
      [3,3]((2,19,37),(2,19,38),(4,37,73)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,19,37),(4,37,73),(2,18,35)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,9,17),(2,17,32),(2,18,35),(2,17,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,26,50),(2,17,33),(2,17,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,17),(3,26,50),(2,17,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,17),(3,26,50),(2,18,35)); lvl=4; h,r-ind=1,1
      [3,3]((3,26,50),(2,18,35),(2,17,33)); lvl=4; h,r-ind=1,1
    [4,3]((2,19,37),(2,19,35),(1,9,17),(2,18,35)); lvl=3; h,r-ind=1,1
      [4,3]((2,19,36),(2,19,35),(4,37,71),(1,9,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,9,17),(3,28,53),(2,19,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,19,36),(3,28,53),(2,19,35)); lvl=5; h,r-ind=1,1
        [3,3]((4,37,71),(2,19,36),(3,28,53)); lvl=5; h,r-ind=1,1
        [3,3]((4,37,71),(1,9,17),(3,28,53)); lvl=5; h,r-ind=1,1
      [3,3]((2,18,35),(4,37,71),(1,9,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,19,37),(2,18,35),(4,37,71)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,19,37),(2,19,36),(4,37,71)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((1,11,19),(1,11,21),(2,19,37),(2,20,39),(2,19,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,20,39),(1,10,19),(2,19,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,19,36),(1,10,19),(2,19,37)); lvl=4; h,r-ind=1,1
      [4,3]((2,19,36),(2,19,35),(1,10,18),(1,10,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,29,54),(1,10,18),(2,19,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,19,36),(3,29,54),(2,19,35)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,19),(3,29,54),(1,10,18)); lvl=5; h,r-ind=1,1
        [3,3]((2,19,36),(1,10,19),(3,29,54)); lvl=5; h,r-ind=1,1
      [4,3]((1,11,19),(1,11,20),(1,10,18),(1,10,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,10,18),(1,10,19),(2,21,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,11,20),(1,10,19),(2,21,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,11,19),(1,11,20),(2,21,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,11,19),(1,10,18),(2,21,38)); lvl=5; h,r-ind=1,1
      [3,3]((1,11,21),(2,20,39),(1,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,11,21),(1,11,20),(1,10,19)); lvl=4; h,r-ind=1,1
    [4,3]((4,39,69),(2,19,35),(1,9,17),(2,17,32)); lvl=3; h,r-ind=1,1
      [4,3]((5,47,86),(9,84,154),(1,9,17),(2,19,35)); lvl=4; h,r-ind=1,1
        [3,3]((6,56,103),(1,9,17),(9,84,154)); lvl=5; h,r-ind=1,1
        [3,3]((5,47,86),(6,56,103),(9,84,154)); lvl=5; h,r-ind=1,1
        [3,3]((5,47,86),(2,19,35),(6,56,103)); lvl=5; h,r-ind=1,1
        [3,3]((2,19,35),(6,56,103),(1,9,17)); lvl=5; h,r-ind=1,1
      [3,3]((3,29,52),(5,47,86),(2,19,35)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [5,3]((3,29,52),(2,19,34),(3,28,51),(5,47,86),(9,84,154)); lvl=4; h,r-ind=1,1
        [3,3]((9,84,154),(3,28,51),(8,75,137)); lvl=5; h,r-ind=1,1
        [4,3]((12,113,205),(7,66,120),(3,28,51),(8,75,137)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((7,66,120),(10,94,171),(8,75,137)); lvl=6; h,r-ind=1,1
          [3,3]((3,28,51),(10,94,171),(8,75,137)); lvl=6; h,r-ind=1,1
          [3,3]((12,113,205),(7,66,120),(10,94,171)); lvl=6; h,r-ind=1,1
          [3,3]((3,28,51),(12,113,205),(10,94,171)); lvl=6; h,r-ind=1,1
        [3,3]((12,113,205),(2,19,34),(3,28,51)); lvl=5; h,r-ind=1,1
        [5,3]((3,29,52),(4,38,69),(12,113,205),(7,66,120),(2,19,34)); lvl=5; h,r-ind=1,1
          [4,3]((7,66,120),(13,123,223),(9,85,154),(15,142,257)); lvl=6; h,r-ind=1,1
            [3,3]((22,208,377),(15,142,257),(13,123,223)); lvl=7; h,r-ind=1,1
            [3,3]((7,66,120),(22,208,377),(13,123,223)); lvl=7; h,r-ind=1,1
            [3,3]((9,85,154),(22,208,377),(15,142,257)); lvl=7; h,r-ind=1,1
            [3,3]((7,66,120),(9,85,154),(22,208,377)); lvl=7; h,r-ind=1,1
          [3,3]((2,19,34),(9,85,154),(15,142,257)); lvl=6; h,r-ind=1,1
          [3,3]((6,57,103),(2,19,34),(15,142,257)); lvl=6; h,r-ind=1,1
          [3,3]((3,29,52),(6,57,103),(2,19,34)); lvl=6; h,r-ind=1,1
          [4,3]((6,57,103),(4,38,69),(13,123,223),(15,142,257)); lvl=6; h,r-ind=1,1
            [3,3]((19,180,326),(13,123,223),(4,38,69)); lvl=7; h,r-ind=1,1
            [3,3]((6,57,103),(19,180,326),(4,38,69)); lvl=7; h,r-ind=1,1
            [3,3]((15,142,257),(6,57,103),(19,180,326)); lvl=7; h,r-ind=1,1
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          [3,3]((15,142,257),(19,180,326),(13,123,223)); lvl=7; h,r-ind=1,1
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        [3,3]((7,66,120),(4,38,69),(13,123,223)); lvl=6; h,r-ind=1,1
        [3,3]((7,66,120),(12,113,205),(9,85,154)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,34),(12,113,205),(9,85,154)); lvl=6; h,r-ind=1,1
      [3,3]((5,47,86),(9,84,154),(8,75,137)); lvl=5; h,r-ind=1,1
      [4,3]((4,38,69),(7,66,120),(5,47,86),(8,75,137)); lvl=5; h,r-ind=1,1
        [3,3]((8,75,137),(7,66,120),(12,113,206)); lvl=6; h,r-ind=1,1
        [3,3]((4,38,69),(7,66,120),(12,113,206)); lvl=6; h,r-ind=1,1
        [3,3]((5,47,86),(4,38,69),(12,113,206)); lvl=6; h,r-ind=1,1
        [3,3]((5,47,86),(8,75,137),(12,113,206)); lvl=6; h,r-ind=1,1
    [3,3]((3,29,52),(2,19,34),(4,39,69)); lvl=4; h,r-ind=1,1
    [5,3]((2,17,32),(3,28,51),(4,37,67),(9,84,154),(1,9,17)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,17),(7,64,118),(2,17,32),(2,18,33)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((2,18,33),(3,27,50),(7,64,118)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(3,27,50),(7,64,118)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,32),(2,18,33),(3,27,50)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(2,17,32),(3,27,50)); lvl=6; h,r-ind=1,1
      [5,3]((5,46,84),(7,64,118),(10,92,169),(9,83,152),(2,18,33)); lvl=5; h,r-ind=1,1
        [3,3]((6,55,101),(10,92,169),(9,83,152)); lvl=6; h,r-ind=1,1
        [3,3]((6,55,101),(5,46,84),(9,83,152)); lvl=6; h,r-ind=1,1
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        [3,3]((7,64,118),(6,55,101),(10,92,169)); lvl=6; h,r-ind=1,1
        [3,3]((2,18,33),(7,64,118),(6,55,101)); lvl=6; h,r-ind=1,1
      [3,3]((4,37,67),(5,46,84),(2,18,33)); lvl=5; h,r-ind=1,1
      [4,3]((3,28,51),(4,37,67),(5,46,84),(9,83,152)); lvl=5; h,r-ind=1,1
        [3,3]((4,37,67),(8,74,135),(5,46,84)); lvl=6; h,r-ind=1,1
        [3,3]((9,83,152),(8,74,135),(5,46,84)); lvl=6; h,r-ind=1,1
        [3,3]((3,28,51),(9,83,152),(8,74,135)); lvl=6; h,r-ind=1,1
        [3,3]((3,28,51),(4,37,67),(8,74,135)); lvl=6; h,r-ind=1,1
      [4,3]((3,28,51),(4,37,68),(10,92,169),(9,83,152)); lvl=5; h,r-ind=1,1
        [3,3]((13,120,220),(10,92,169),(4,37,68)); lvl=6; h,r-ind=1,1
        [3,3]((3,28,51),(13,120,220),(4,37,68)); lvl=6; h,r-ind=1,1
        [3,3]((9,83,152),(13,120,220),(10,92,169)); lvl=6; h,r-ind=1,1
        [3,3]((3,28,51),(9,83,152),(13,120,220)); lvl=6; h,r-ind=1,1
      [3,3]((3,28,51),(9,84,154),(4,37,68)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,17),(4,37,68),(7,64,118),(10,92,169)); lvl=5; h,r-ind=1,1
        [3,3]((4,37,68),(10,92,169),(11,101,186)); lvl=6; h,r-ind=1,1
        [3,3]((7,64,118),(10,92,169),(11,101,186)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,17),(4,37,68),(11,101,186)); lvl=6; h,r-ind=1,1
        [3,3]((7,64,118),(1,9,17),(11,101,186)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,17),(9,84,154),(4,37,68)); lvl=5; h,r-ind=1,1
    [3,3]((2,19,34),(3,28,51),(4,37,67)); lvl=4; h,r-ind=1,1
  [4,3]((1,11,19),(2,22,37),(4,39,69),(2,19,35)); lvl=3; h,r-ind=1,1
    [3,3]((2,20,35),(4,39,69),(3,29,52)); lvl=4; h,r-ind=1,1
    [3,3]((1,10,18),(2,20,35),(3,29,52)); lvl=4; h,r-ind=1,1
    [3,3]((2,19,35),(1,10,18),(3,29,52)); lvl=4; h,r-ind=1,1
    [3,3]((1,10,18),(2,20,35),(4,41,71)); lvl=4; h,r-ind=1,1
    [4,3]((1,10,18),(1,11,19),(2,22,37),(4,41,71)); lvl=4; h,r-ind=1,1
      [4,3]((4,42,73),(2,21,36),(1,11,19),(2,22,37)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((1,11,19),(2,22,37),(3,32,55)); lvl=6; h,r-ind=1,1
        [3,3]((2,21,36),(2,22,37),(3,32,55)); lvl=6; h,r-ind=1,1
        [3,3]((4,42,73),(1,11,19),(3,32,55)); lvl=6; h,r-ind=1,1
        [3,3]((2,21,36),(4,42,73),(3,32,55)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,18),(4,42,73),(2,21,36)); lvl=5; h,r-ind=1,1
      [3,3]((1,10,18),(2,21,36),(4,41,71)); lvl=5; h,r-ind=1,1
      [3,3]((1,10,18),(4,42,73),(1,11,19)); lvl=5; h,r-ind=1,1
  [4,3]((2,19,39),(2,17,34),(2,18,37),(1,9,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,27,55),(2,18,37),(2,17,34)); lvl=4; h,r-ind=1,1
    [3,3]((1,9,18),(3,27,55),(2,17,34)); lvl=4; h,r-ind=1,1
    [3,3]((2,19,39),(1,9,18),(3,27,55)); lvl=4; h,r-ind=1,1
    [3,3]((2,19,39),(3,27,55),(2,18,37)); lvl=4; h,r-ind=1,1
  [4,3]((1,10,21),(2,19,40),(2,19,39),(2,18,37)); lvl=3; h,r-ind=1,1
    [3,3]((3,28,58),(2,18,37),(2,19,40)); lvl=4; h,r-ind=1,1
    [3,3]((1,10,21),(3,28,58),(2,19,40)); lvl=4; h,r-ind=1,1
    [3,3]((1,10,21),(2,19,39),(3,28,58)); lvl=4; h,r-ind=1,1
    [3,3]((2,19,39),(3,28,58),(2,18,37)); lvl=4; h,r-ind=1,1
  [4,3]((2,19,37),(2,20,39),(1,10,21),(2,19,39)); lvl=3; h,r-ind=1,1
    [4,3]((2,19,39),(2,19,38),(1,10,21),(1,10,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,10,20),(1,10,21),(3,29,59)); lvl=5; h,r-ind=1,1
      [3,3]((2,19,39),(1,10,21),(3,29,59)); lvl=5; h,r-ind=1,1
      [3,3]((2,19,38),(2,19,39),(3,29,59)); lvl=5; h,r-ind=1,1
      [3,3]((2,19,38),(1,10,20),(3,29,59)); lvl=5; h,r-ind=1,1
    [3,3]((2,19,37),(2,19,38),(1,10,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,19,37),(2,20,39),(1,10,20)); lvl=4; h,r-ind=1,1
  [4,3]((1,11,24),(1,11,21),(2,20,39),(1,10,21)); lvl=3; h,r-ind=3,1; alert-h-inc
    [3,3]((1,11,21),(1,10,20),(2,20,39)); lvl=4; h,r-ind=1,1
    [3,3]((1,11,21),(2,22,45),(1,10,20)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((1,11,24),(1,10,21),(2,22,45),(1,10,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,31,64),(1,10,20),(1,10,21)); lvl=5; h,r-ind=1,1
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      [4,3]((1,11,24),(3,31,64),(1,11,23),(1,10,21)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,21,44),(3,31,64),(1,11,23)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,24),(2,21,44),(1,11,23)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,21),(2,21,44),(3,31,64)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,24),(1,10,21),(2,21,44)); lvl=6; h,r-ind=1,1
      [3,3]((3,31,64),(1,11,23),(1,10,20)); lvl=5; h,r-ind=1,1
      [3,3]((1,11,23),(2,22,45),(1,10,20)); lvl=5; h,r-ind=1,1
  [3,3]((1,11,24),(1,10,21),(2,19,40)); lvl=3; h,r-ind=1,1
[4,3]((1,11,13),(2,17,26),(2,22,37),(2,17,32)); lvl=2; h,r-ind=5,1; alert-h-inc
  [4,3]((2,17,32),(1,9,16),(1,9,15),(2,17,29)); lvl=3; h,r-ind=1,1
    [3,3]((1,9,16),(1,9,15),(5,44,77)); lvl=4; h,r-ind=1,1
    [4,3]((2,17,29),(4,34,61),(1,9,15),(5,44,77)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,9,15),(5,44,77),(7,61,106),(3,26,46)); lvl=5; h,r-ind=1,3
        [3,3]((4,35,61),(5,44,77),(3,26,46)); lvl=6; h,r-ind=1,1
        [3,3]((7,61,106),(4,35,61),(3,26,46)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,15),(7,61,106),(4,35,61)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,15),(4,35,61),(5,44,77)); lvl=6; h,r-ind=1,1
      [3,3]((2,17,30),(7,61,106),(3,26,46)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,17,30),(4,34,61),(3,26,46)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,15),(2,17,29),(2,17,30),(7,61,106)); lvl=5; h,r-ind=1,3
        [3,3]((3,26,45),(2,17,29),(2,17,30)); lvl=6; h,r-ind=1,1
        [3,3]((7,61,106),(3,26,45),(2,17,30)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,15),(7,61,106),(3,26,45)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,15),(3,26,45),(2,17,29)); lvl=6; h,r-ind=1,1
    [4,3]((2,17,32),(4,34,61),(1,9,16),(5,44,77)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((7,61,109),(1,9,16),(5,44,77),(3,26,46)); lvl=5; h,r-ind=1,3
        [3,3]((4,35,62),(1,9,16),(5,44,77)); lvl=6; h,r-ind=1,1
        [3,3]((3,26,46),(4,35,62),(5,44,77)); lvl=6; h,r-ind=1,1
        [3,3]((7,61,109),(3,26,46),(4,35,62)); lvl=6; h,r-ind=1,1
        [3,3]((7,61,109),(4,35,62),(1,9,16)); lvl=6; h,r-ind=1,1
      [3,3]((2,17,31),(7,61,109),(3,26,46)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,17,31),(4,34,61),(3,26,46)); lvl=5; h,r-ind=1,1
      [4,3]((2,17,31),(2,17,32),(7,61,109),(1,9,16)); lvl=5; h,r-ind=1,3
        [3,3]((3,26,47),(1,9,16),(2,17,32)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,31),(3,26,47),(2,17,32)); lvl=6; h,r-ind=1,1
        [3,3]((7,61,109),(3,26,47),(1,9,16)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,31),(7,61,109),(3,26,47)); lvl=6; h,r-ind=1,1
  [4,3]((1,9,13),(2,17,26),(1,9,15),(2,17,29)); lvl=3; h,r-ind=1,1
    [4,3]((1,9,15),(1,9,14),(2,17,29),(4,34,55)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,14),(4,34,55),(2,17,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,14),(4,35,57),(2,17,28)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,15),(4,35,57),(2,17,29),(2,17,28)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,26,43),(2,17,28),(2,17,29)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,15),(3,26,43),(2,17,29)); lvl=6; h,r-ind=1,1
        [3,3]((3,26,43),(4,35,57),(2,17,28)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,15),(3,26,43),(4,35,57)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,15),(1,9,14),(4,35,57)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,13),(1,9,14),(2,17,26),(4,34,55)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,14),(2,17,27),(4,34,55)); lvl=5; h,r-ind=1,1
      [3,3]((4,35,54),(1,9,14),(2,17,27)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,13),(4,35,54),(2,17,26),(2,17,27)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,26,40),(2,17,26),(2,17,27)); lvl=6; h,r-ind=1,1
        [3,3]((4,35,54),(3,26,40),(2,17,27)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,13),(4,35,54),(3,26,40)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,13),(3,26,40),(2,17,26)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,13),(4,35,54),(1,9,14)); lvl=5; h,r-ind=1,1
  [4,3]((2,19,26),(4,38,61),(1,9,13),(1,9,15)); lvl=3; h,r-ind=1,1
    [4,3]((2,19,30),(4,38,57),(1,9,14),(1,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,19,29),(4,38,57),(1,9,14)); lvl=5; h,r-ind=1,1
      [3,3]((2,19,29),(4,37,58),(1,9,14)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,15),(4,37,58),(1,9,14)); lvl=5; h,r-ind=1,1
      [4,3]((2,19,30),(2,19,29),(1,9,15),(4,37,58)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,28,44),(2,19,29),(4,37,58)); lvl=6; h,r-ind=1,1
        [3,3]((3,28,44),(1,9,15),(4,37,58)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,30),(3,28,44),(1,9,15)); lvl=6; h,r-ind=1,1
        [3,3]((2,19,30),(3,28,44),(2,19,29)); lvl=6; h,r-ind=1,1
    [3,3]((4,38,61),(2,19,30),(1,9,15)); lvl=4; h,r-ind=1,1
    [4,3]((2,19,26),(4,38,57),(1,9,13),(1,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((5,46,68),(1,9,14),(1,9,13)); lvl=5; h,r-ind=1,1
      [4,3]((2,19,26),(4,38,55),(5,46,68),(1,9,13)); lvl=5; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((7,65,94),(1,9,13),(5,46,68),(3,28,41)); lvl=6; h,r-ind=1,3
          [3,3]((4,37,54),(5,46,68),(1,9,13)); lvl=7; h,r-ind=1,1
          [3,3]((7,65,94),(4,37,54),(1,9,13)); lvl=7; h,r-ind=1,1
          [3,3]((3,28,41),(7,65,94),(4,37,54)); lvl=7; h,r-ind=1,1
          [3,3]((3,28,41),(4,37,54),(5,46,68)); lvl=7; h,r-ind=1,1
        [3,3]((2,19,27),(7,65,94),(3,28,41)); lvl=6; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,19,27),(4,38,55),(3,28,41)); lvl=6; h,r-ind=1,1
        [4,3]((2,19,27),(2,19,26),(7,65,94),(1,9,13)); lvl=6; h,r-ind=1,3
          [3,3]((1,9,13),(3,28,40),(2,19,26)); lvl=7; h,r-ind=1,1
          [3,3]((2,19,27),(3,28,40),(2,19,26)); lvl=7; h,r-ind=1,1
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          [3,3]((7,65,94),(2,19,27),(3,28,40)); lvl=7; h,r-ind=1,1
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      [4,3]((2,19,28),(4,38,55),(5,46,68),(1,9,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,9,14),(3,28,41),(5,46,68)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,14),(6,56,83),(3,28,41)); lvl=6; h,r-ind=1,1
        [4,3]((2,19,28),(6,56,83),(4,38,55),(3,28,41)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((5,47,69),(3,28,41),(6,56,83)); lvl=7; h,r-ind=1,1
          [3,3]((2,19,28),(5,47,69),(6,56,83)); lvl=7; h,r-ind=1,1
          [3,3]((4,38,55),(5,47,69),(3,28,41)); lvl=7; h,r-ind=1,1
          [3,3]((2,19,28),(4,38,55),(5,47,69)); lvl=7; h,r-ind=1,1
        [3,3]((2,19,28),(1,9,14),(6,56,83)); lvl=6; h,r-ind=1,1
    [3,3]((4,38,57),(2,19,28),(1,9,14)); lvl=5; h,r-ind=1,1
[4,3]((4,39,69),(2,19,33),(2,17,32),(1,9,16)); lvl=3; h,r-ind=1,1
  [4,3]((9,84,149),(5,47,83),(1,9,16),(2,19,33)); lvl=4; h,r-ind=1,1
    [3,3]((6,56,99),(5,47,83),(2,19,33)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,16),(6,56,99),(2,19,33)); lvl=5; h,r-ind=1,1
    [3,3]((9,84,149),(6,56,99),(5,47,83)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,16),(9,84,149),(6,56,99)); lvl=5; h,r-ind=1,1
  [3,3]((3,29,51),(5,47,83),(2,19,33)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((3,29,51),(2,19,34),(9,84,149),(3,28,50),(5,47,83)); lvl=4; h,r-ind=1,1
    [5,3]((3,29,51),(4,38,67),(12,113,201),(7,66,117),(2,19,34)); lvl=5; h,r-ind=1,1
      [3,3]((7,66,117),(9,85,151),(12,113,201)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,34),(9,85,151),(12,113,201)); lvl=6; h,r-ind=1,1
      [4,3]((15,142,252),(13,123,218),(7,66,117),(9,85,151)); lvl=6; h,r-ind=1,1
        [3,3]((13,123,218),(7,66,117),(22,208,369)); lvl=7; h,r-ind=1,1
        [3,3]((9,85,151),(7,66,117),(22,208,369)); lvl=7; h,r-ind=1,1
        [3,3]((15,142,252),(13,123,218),(22,208,369)); lvl=7; h,r-ind=1,1
        [3,3]((9,85,151),(15,142,252),(22,208,369)); lvl=7; h,r-ind=1,1
      [3,3]((2,19,34),(15,142,252),(9,85,151)); lvl=6; h,r-ind=1,1
      [4,3]((4,38,67),(6,57,101),(15,142,252),(13,123,218)); lvl=6; h,r-ind=1,1
        [3,3]((15,142,252),(6,57,101),(19,180,319)); lvl=7; h,r-ind=1,1
        [3,3]((4,38,67),(6,57,101),(19,180,319)); lvl=7; h,r-ind=1,1
        [3,3]((13,123,218),(4,38,67),(19,180,319)); lvl=7; h,r-ind=1,1
        [3,3]((13,123,218),(15,142,252),(19,180,319)); lvl=7; h,r-ind=1,1
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      [3,3]((2,19,34),(6,57,101),(15,142,252)); lvl=6; h,r-ind=1,1
      [3,3]((3,29,51),(2,19,34),(6,57,101)); lvl=6; h,r-ind=1,1
      [3,3]((4,38,67),(13,123,218),(7,66,117)); lvl=6; h,r-ind=1,1
    [3,3]((3,28,50),(12,113,201),(2,19,34)); lvl=5; h,r-ind=1,1
    [4,3]((3,28,50),(8,75,133),(12,113,201),(7,66,117)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((10,94,167),(7,66,117),(8,75,133)); lvl=6; h,r-ind=1,1
      [3,3]((3,28,50),(10,94,167),(8,75,133)); lvl=6; h,r-ind=1,1
      [3,3]((10,94,167),(12,113,201),(7,66,117)); lvl=6; h,r-ind=1,1
      [3,3]((3,28,50),(10,94,167),(12,113,201)); lvl=6; h,r-ind=1,1
    [4,3]((4,38,67),(5,47,83),(8,75,133),(7,66,117)); lvl=5; h,r-ind=1,1
      [3,3]((12,113,200),(5,47,83),(8,75,133)); lvl=6; h,r-ind=1,1
      [3,3]((7,66,117),(12,113,200),(8,75,133)); lvl=6; h,r-ind=1,1
      [3,3]((4,38,67),(7,66,117),(12,113,200)); lvl=6; h,r-ind=1,1
      [3,3]((4,38,67),(12,113,200),(5,47,83)); lvl=6; h,r-ind=1,1
    [3,3]((3,28,50),(9,84,149),(8,75,133)); lvl=5; h,r-ind=1,1
    [3,3]((5,47,83),(9,84,149),(8,75,133)); lvl=5; h,r-ind=1,1
  [3,3]((3,29,51),(2,19,34),(4,39,69)); lvl=4; h,r-ind=1,1
  [5,3]((9,84,149),(3,28,50),(4,37,67),(2,17,32),(1,9,16)); lvl=4; h,r-ind=1,1
    [4,3]((9,83,149),(4,37,67),(5,46,83),(3,28,50)); lvl=5; h,r-ind=1,1
      [3,3]((8,74,133),(5,46,83),(4,37,67)); lvl=6; h,r-ind=1,1
      [3,3]((3,28,50),(8,74,133),(4,37,67)); lvl=6; h,r-ind=1,1
      [3,3]((9,83,149),(8,74,133),(5,46,83)); lvl=6; h,r-ind=1,1
      [3,3]((3,28,50),(9,83,149),(8,74,133)); lvl=6; h,r-ind=1,1
    [4,3]((10,92,165),(4,37,66),(9,83,149),(3,28,50)); lvl=5; h,r-ind=1,1
      [3,3]((3,28,50),(4,37,66),(13,120,215)); lvl=6; h,r-ind=1,1
      [3,3]((10,92,165),(4,37,66),(13,120,215)); lvl=6; h,r-ind=1,1
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      [3,3]((9,83,149),(3,28,50),(13,120,215)); lvl=6; h,r-ind=1,1
    [3,3]((9,84,149),(4,37,66),(3,28,50)); lvl=5; h,r-ind=1,1
    [5,3]((10,92,165),(9,83,149),(7,64,115),(5,46,83),(2,18,33)); lvl=5; h,r-ind=1,1
      [3,3]((2,18,33),(6,55,99),(7,64,115)); lvl=6; h,r-ind=1,1
      [3,3]((10,92,165),(6,55,99),(7,64,115)); lvl=6; h,r-ind=1,1
      [3,3]((10,92,165),(9,83,149),(6,55,99)); lvl=6; h,r-ind=1,1
      [3,3]((5,46,83),(2,18,33),(6,55,99)); lvl=6; h,r-ind=1,1
      [3,3]((9,83,149),(5,46,83),(6,55,99)); lvl=6; h,r-ind=1,1
    [4,3]((10,92,165),(4,37,66),(1,9,16),(7,64,115)); lvl=5; h,r-ind=1,1
      [3,3]((11,101,181),(1,9,16),(4,37,66)); lvl=6; h,r-ind=1,1
      [3,3]((10,92,165),(11,101,181),(4,37,66)); lvl=6; h,r-ind=1,1
      [3,3]((7,64,115),(10,92,165),(11,101,181)); lvl=6; h,r-ind=1,1
      [3,3]((7,64,115),(11,101,181),(1,9,16)); lvl=6; h,r-ind=1,1
    [3,3]((9,84,149),(4,37,66),(1,9,16)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,16),(7,64,115),(2,18,33),(2,17,32)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((3,27,49),(7,64,115),(2,18,33)); lvl=6; h,r-ind=1,1
      [3,3]((2,17,32),(3,27,49),(2,18,33)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,16),(2,17,32),(3,27,49)); lvl=6; h,r-ind=1,1
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      [3,3]((1,9,16),(3,27,49),(7,64,115)); lvl=6; h,r-ind=1,1
    [3,3]((4,37,67),(5,46,83),(2,18,33)); lvl=5; h,r-ind=1,1
  [3,3]((2,19,34),(3,28,50),(4,37,67)); lvl=4; h,r-ind=1,1
[4,3]((2,19,33),(4,38,61),(1,9,16),(1,9,15)); lvl=3; h,r-ind=1,1
  [3,3]((1,9,16),(5,46,78),(1,9,15)); lvl=4; h,r-ind=1,1
  [4,3]((4,38,63),(2,19,31),(5,46,78),(1,9,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,19,31),(1,9,15),(6,56,93)); lvl=5; h,r-ind=1,1
    [3,3]((3,28,47),(1,9,15),(6,56,93)); lvl=5; h,r-ind=1,1
    [3,3]((3,28,47),(5,46,78),(1,9,15)); lvl=5; h,r-ind=1,1
    [4,3]((4,38,63),(3,28,47),(2,19,31),(6,56,93)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((5,47,78),(3,28,47),(6,56,93)); lvl=6; h,r-ind=1,1
      [3,3]((5,47,78),(2,19,31),(6,56,93)); lvl=6; h,r-ind=1,1
      [3,3]((4,38,63),(5,47,78),(2,19,31)); lvl=6; h,r-ind=1,1
      [3,3]((4,38,63),(5,47,78),(3,28,47)); lvl=6; h,r-ind=1,1
  [3,3]((4,38,61),(2,19,31),(1,9,15)); lvl=4; h,r-ind=1,1
  [4,3]((2,19,33),(4,38,63),(1,9,16),(5,46,78)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((1,9,16),(7,65,111),(3,28,47),(5,46,78)); lvl=5; h,r-ind=1,3
      [3,3]((3,28,47),(4,37,63),(7,65,111)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,16),(4,37,63),(7,65,111)); lvl=6; h,r-ind=1,1
      [3,3]((5,46,78),(3,28,47),(4,37,63)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,16),(5,46,78),(4,37,63)); lvl=6; h,r-ind=1,1
    [3,3]((2,19,32),(7,65,111),(3,28,47)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
    [4,3]((1,9,16),(2,19,33),(2,19,32),(7,65,111)); lvl=5; h,r-ind=1,3
      [3,3]((3,28,48),(2,19,32),(2,19,33)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,16),(3,28,48),(2,19,33)); lvl=6; h,r-ind=1,1
      [3,3]((3,28,48),(7,65,111),(2,19,32)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,16),(3,28,48),(7,65,111)); lvl=6; h,r-ind=1,1
    [3,3]((2,19,32),(3,28,47),(4,38,63)); lvl=5; h,r-ind=1,1
[4,3]((2,19,33),(1,11,18),(1,11,16),(4,38,61)); lvl=3; h,r-ind=3,1
  [4,3]((1,10,17),(1,10,16),(1,11,18),(1,11,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,11,18),(1,11,17),(2,21,34)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,16),(1,11,17),(2,21,34)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,17),(1,10,16),(2,21,34)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,17),(1,11,18),(2,21,34)); lvl=5; h,r-ind=1,1
  [3,3]((1,10,16),(1,11,16),(1,11,17)); lvl=4; h,r-ind=1,1
  [3,3]((1,10,16),(5,49,77),(1,11,16)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
  [4,3]((1,10,16),(4,38,61),(2,19,31),(5,49,77)); lvl=4; h,r-ind=1,1
    [4,3]((2,19,31),(6,58,93),(4,38,61),(3,29,46)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((5,48,77),(6,58,93),(3,29,46)); lvl=6; h,r-ind=1,1
      [3,3]((4,38,61),(5,48,77),(3,29,46)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,31),(4,38,61),(5,48,77)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,31),(5,48,77),(6,58,93)); lvl=6; h,r-ind=1,1
    [3,3]((1,10,16),(6,58,93),(3,29,46)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,16),(5,49,77),(3,29,46)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,16),(2,19,31),(6,58,93)); lvl=5; h,r-ind=1,1
  [4,3]((2,19,33),(1,10,17),(1,10,16),(4,38,63)); lvl=4; h,r-ind=1,1
    [3,3]((1,10,17),(4,39,65),(1,10,16)); lvl=5; h,r-ind=1,1
    [3,3]((2,19,32),(4,39,65),(1,10,16)); lvl=5; h,r-ind=1,1
    [3,3]((2,19,32),(4,38,63),(1,10,16)); lvl=5; h,r-ind=1,1
    [4,3]((2,19,33),(2,19,32),(1,10,17),(4,39,65)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((3,29,49),(2,19,32),(4,39,65)); lvl=6; h,r-ind=1,1
      [3,3]((3,29,49),(1,10,17),(4,39,65)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,33),(3,29,49),(1,10,17)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,33),(3,29,49),(2,19,32)); lvl=6; h,r-ind=1,1
  [3,3]((1,10,16),(4,38,63),(2,19,31)); lvl=4; h,r-ind=1,1
[4,3]((1,11,13),(2,19,26),(1,11,16),(4,38,61)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc
  [4,3]((4,38,61),(5,49,77),(1,10,15),(2,19,30)); lvl=4; h,r-ind=1,1
    [3,3]((1,10,15),(3,29,46),(5,49,77)); lvl=5; h,r-ind=1,1
    [3,3]((6,58,91),(1,10,15),(3,29,46)); lvl=5; h,r-ind=1,1
    [4,3]((4,38,61),(6,58,91),(2,19,30),(3,29,46)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((5,48,76),(2,19,30),(6,58,91)); lvl=6; h,r-ind=1,1
      [3,3]((3,29,46),(5,48,76),(6,58,91)); lvl=6; h,r-ind=1,1
      [3,3]((4,38,61),(3,29,46),(5,48,76)); lvl=6; h,r-ind=1,1
      [3,3]((4,38,61),(5,48,76),(2,19,30)); lvl=6; h,r-ind=1,1
    [3,3]((6,58,91),(2,19,30),(1,10,15)); lvl=5; h,r-ind=1,1
  [4,3]((2,20,29),(4,38,57),(1,10,15),(2,19,30)); lvl=4; h,r-ind=1,1
    [4,3]((1,10,15),(7,68,102),(2,19,29),(2,19,30)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((7,68,102),(3,29,44),(2,19,29)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,30),(3,29,44),(2,19,29)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,15),(2,19,30),(3,29,44)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,15),(7,68,102),(3,29,44)); lvl=6; h,r-ind=1,1
    [4,3]((2,20,29),(4,39,58),(1,10,15),(7,68,102)); lvl=5; h,r-ind=1,1
      [3,3]((5,49,73),(4,39,58),(7,68,102)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,15),(5,49,73),(7,68,102)); lvl=6; h,r-ind=1,1
      [3,3]((2,20,29),(1,10,15),(5,49,73)); lvl=6; h,r-ind=1,1
      [3,3]((2,20,29),(5,49,73),(4,39,58)); lvl=6; h,r-ind=1,1
    [4,3]((3,29,43),(4,39,58),(7,68,102),(2,19,29)); lvl=5; h,r-ind=1,1
      [3,3]((4,39,58),(6,58,87),(7,68,102)); lvl=6; h,r-ind=1,1
      [3,3]((2,19,29),(6,58,87),(7,68,102)); lvl=6; h,r-ind=1,1
      [3,3]((3,29,43),(4,39,58),(6,58,87)); lvl=6; h,r-ind=1,1
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          [3,3]((2,19,29),(3,29,43),(6,58,87)); lvl=6; h,r-ind=1,1
        [3,3]((3,29,43),(4,38,57),(2,19,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,20,29),(3,29,43),(4,39,58)); lvl=5; h,r-ind=1,1
      [4,3]((1,11,16),(2,22,29),(2,20,29),(1,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,31,44),(2,20,29),(2,21,29)); lvl=5; h,r-ind=1,1
        [4,3]((1,11,15),(3,31,44),(5,52,74),(2,21,29)); lvl=5; h,r-ind=1,1
          [3,3]((5,52,74),(4,42,59),(3,31,44)); lvl=6; h,r-ind=1,1
          [3,3]((2,21,29),(4,42,59),(3,31,44)); lvl=6; h,r-ind=1,1
          [3,3]((1,11,15),(2,21,29),(4,42,59)); lvl=6; h,r-ind=1,1
          [3,3]((1,11,15),(5,52,74),(4,42,59)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,15),(2,22,29),(2,21,29)); lvl=5; h,r-ind=1,1
        [4,3]((1,10,15),(3,31,44),(5,52,74),(2,20,29)); lvl=5; h,r-ind=1,1
          [3,3]((4,41,59),(5,52,74),(3,31,44)); lvl=6; h,r-ind=1,1
          [3,3]((2,20,29),(4,41,59),(3,31,44)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,15),(2,20,29),(4,41,59)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,15),(4,41,59),(5,52,74)); lvl=6; h,r-ind=1,1
        [4,3]((1,11,16),(1,11,15),(1,10,15),(5,52,74)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((1,11,15),(5,52,74),(2,21,30)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,15),(5,52,74),(2,21,30)); lvl=6; h,r-ind=1,1
          [3,3]((1,11,16),(1,11,15),(2,21,30)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,15),(1,11,16),(2,21,30)); lvl=6; h,r-ind=1,1
      [4,3]((2,20,29),(1,10,13),(2,19,26),(4,38,57)); lvl=4; h,r-ind=1,1
        [4,3]((1,10,14),(1,10,13),(4,38,55),(2,19,26)); lvl=5; h,r-ind=1,1
          [4,3]((1,10,13),(2,19,27),(2,19,26),(4,39,54)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((3,29,40),(2,19,26),(2,19,27)); lvl=7; h,r-ind=1,1
            [3,3]((4,39,54),(3,29,40),(2,19,27)); lvl=7; h,r-ind=1,1
            [3,3]((1,10,13),(4,39,54),(3,29,40)); lvl=7; h,r-ind=1,1
            [3,3]((1,10,13),(3,29,40),(2,19,26)); lvl=7; h,r-ind=1,1
          [3,3]((1,10,14),(1,10,13),(4,39,54)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,14),(2,19,27),(4,39,54)); lvl=6; h,r-ind=1,1
          [3,3]((1,10,14),(2,19,27),(4,38,55)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,14),(4,38,55),(2,19,28)); lvl=5; h,r-ind=1,1
        [3,3]((3,29,43),(1,10,14),(2,19,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,20,29),(3,29,43),(1,10,14)); lvl=5; h,r-ind=1,1
        [3,3]((4,38,57),(3,29,43),(2,19,28)); lvl=5; h,r-ind=1,1
      [4,3]((1,11,13),(2,22,29),(2,20,29),(1,10,13)); lvl=4; h,r-ind=3,1
        [3,3]((2,20,29),(1,10,14),(2,21,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,11,14),(1,10,14),(2,21,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,11,14),(2,22,29),(2,21,29)); lvl=5; h,r-ind=1,1
        [4,3]((1,11,13),(1,11,14),(1,10,13),(1,10,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,10,13),(1,10,14),(2,21,27)); lvl=6; h,r-ind=1,1
          [3,3]((1,11,14),(1,10,14),(2,21,27)); lvl=6; h,r-ind=1,1
          [3,3]((1,11,13),(1,10,13),(2,21,27)); lvl=6; h,r-ind=1,1
          [3,3]((1,11,14),(1,11,13),(2,21,27)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,16),(5,49,77),(1,10,15)); lvl=4; h,r-ind=3,3; optimized-h
    [4,3]((2,22,37),(4,39,69),(2,19,33),(1,11,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,19,33),(1,10,17),(3,29,51)); lvl=4; h,r-ind=1,1
      [3,3]((2,20,35),(1,10,17),(3,29,51)); lvl=4; h,r-ind=1,1
      [3,3]((4,39,69),(2,20,35),(3,29,51)); lvl=4; h,r-ind=1,1
      [3,3]((4,41,71),(2,20,35),(1,10,17)); lvl=4; h,r-ind=1,1
      [4,3]((2,22,37),(4,41,71),(1,11,18),(1,10,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,21,36),(1,10,17),(4,41,71)); lvl=5; h,r-ind=1,1
        [3,3]((2,21,36),(4,42,71),(1,10,17)); lvl=5; h,r-ind=1,1
        [3,3]((4,42,71),(1,11,18),(1,10,17)); lvl=5; h,r-ind=1,1
        [4,3]((2,21,36),(2,22,37),(4,42,71),(1,11,18)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((1,11,18),(3,32,54),(2,22,37)); lvl=6; h,r-ind=1,1
          [3,3]((2,21,36),(3,32,54),(2,22,37)); lvl=6; h,r-ind=1,1
          [3,3]((4,42,71),(1,11,18),(3,32,54)); lvl=6; h,r-ind=1,1
          [3,3]((2,21,36),(4,42,71),(3,32,54)); lvl=6; h,r-ind=1,1
[3,3]((1,7,13),(1,7,14),(2,13,26)); lvl=2; h,r-ind=1,1
[3,3]((1,8,16),(1,7,14),(2,16,33)); lvl=2; h,r-ind=1,1
[4,3]((2,17,32),(2,16,31),(1,8,16),(2,17,34)); lvl=2; h,r-ind=1,1
  [3,3]((4,33,64),(2,16,31),(1,8,16)); lvl=3; h,r-ind=1,1
  [4,3]((2,17,34),(2,17,33),(4,33,64),(1,8,16)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((2,17,33),(4,33,64),(3,25,49)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,16),(4,33,64),(3,25,49)); lvl=4; h,r-ind=1,1
    [3,3]((2,17,34),(2,17,33),(3,25,49)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,16),(2,17,34),(3,25,49)); lvl=4; h,r-ind=1,1
  [3,3]((2,17,32),(2,17,33),(4,33,64)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,17,32),(4,33,64),(2,16,31)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[3,3]((2,16,31),(1,8,16),(1,7,14)); lvl=2; h,r-ind=1,1
[5,3]((2,17,26),(1,7,13),(2,17,32),(2,16,31),(1,7,14)); lvl=2; h,r-ind=1,1
  [4,3]((1,7,14),(2,15,28),(1,8,15),(2,16,29)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,15),(2,16,29),(3,23,43)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,28),(2,16,29),(3,23,43)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,14),(2,15,28),(3,23,43)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,14),(1,8,15),(3,23,43)); lvl=4; h,r-ind=1,1
  [4,3]((2,17,29),(2,17,32),(1,8,15),(2,16,29)); lvl=3; h,r-ind=1,1
    [4,3]((5,41,74),(4,34,61),(2,17,32),(1,8,15)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,8,15),(7,58,106),(2,17,31),(2,17,32)); lvl=5; h,r-ind=1,3
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            [3,3]((3,25,46),(2,17,31),(7,58,106)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,15),(3,25,46),(7,58,106)); lvl=6; h,r-ind=1,1
            [3,3]((2,17,32),(3,25,46),(2,17,31)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,15),(2,17,32),(3,25,46)); lvl=6; h,r-ind=1,1
          [3,3]((3,25,45),(7,58,106),(2,17,31)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,8,15),(5,41,74),(3,25,45),(7,58,106)); lvl=5; h,r-ind=1,3
            [3,3]((4,33,60),(5,41,74),(3,25,45)); lvl=6; h,r-ind=1,1
            [3,3]((7,58,106),(4,33,60),(3,25,45)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,15),(7,58,106),(4,33,60)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,15),(4,33,60),(5,41,74)); lvl=6; h,r-ind=1,1
          [3,3]((3,25,45),(2,17,31),(4,34,61)); lvl=5; h,r-ind=1,1
        [3,3]((2,16,29),(5,41,74),(1,8,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,17,29),(2,16,29),(5,41,74)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
        [3,3]((2,17,29),(5,41,74),(4,34,61)); lvl=4; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((1,8,13),(1,7,13),(2,15,28),(2,16,29)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,13),(2,15,28),(4,30,55)); lvl=4; h,r-ind=1,1
        [4,3]((1,8,14),(2,16,29),(2,15,28),(4,30,55)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,15,28),(2,16,29),(3,23,42)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,14),(2,16,29),(3,23,42)); lvl=5; h,r-ind=1,1
          [3,3]((4,30,55),(1,8,14),(3,23,42)); lvl=5; h,r-ind=1,1
          [3,3]((4,30,55),(2,15,28),(3,23,42)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,14),(1,7,13),(4,30,55)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,13),(1,8,14),(1,7,13)); lvl=4; h,r-ind=1,1
      [4,3]((2,17,26),(1,8,13),(2,17,29),(2,16,29)); lvl=3; h,r-ind=3,1; alert-h-inc
        [3,3]((2,17,29),(1,8,14),(2,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((4,34,55),(2,17,29),(1,8,14)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
        [4,3]((2,17,26),(4,34,55),(1,8,13),(1,8,14)); lvl=4; h,r-ind=1,1
          [3,3]((4,33,54),(1,8,14),(1,8,13)); lvl=5; h,r-ind=1,1
          [4,3]((2,17,26),(2,17,27),(4,33,54),(1,8,13)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,17,27),(4,33,54),(3,25,40)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,13),(4,33,54),(3,25,40)); lvl=6; h,r-ind=1,1
            [3,3]((2,17,26),(2,17,27),(3,25,40)); lvl=6; h,r-ind=1,1
            [3,3]((1,8,13),(2,17,26),(3,25,40)); lvl=6; h,r-ind=1,1
          [3,3]((2,17,27),(4,33,54),(1,8,14)); lvl=5; h,r-ind=1,1
          [3,3]((4,34,55),(2,17,27),(1,8,14)); lvl=5; h,r-ind=1,1
      [3,3]((2,16,31),(1,7,14),(1,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,17,32),(2,16,31),(1,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,13),(1,7,14),(2,15,28)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=2,2; optimized-h
[5,3]((2,17,36),(1,6,13),(2,7,15),(1,2,4),(2,13,26)); lvl=1; h,r-ind=1,1
  [5,3]((1,6,12),(2,9,18),(4,23,48),(1,8,17),(2,15,32)); lvl=2; h,r-ind=1,1
    [4,3]((3,20,42),(3,19,40),(2,12,25),(2,15,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,12,25),(3,19,40),(4,27,57)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,32),(3,19,40),(4,27,57)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,42),(2,15,32),(4,27,57)); lvl=4; h,r-ind=1,1
      [3,3]((3,20,42),(2,12,25),(4,27,57)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,17),(3,20,42),(2,15,32)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,12),(1,5,10),(1,8,17),(3,20,42)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,10),(3,20,42),(2,13,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,17),(3,20,42),(2,13,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(1,8,17),(2,13,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,12),(1,5,10),(2,13,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,10),(3,20,42),(2,12,25)); lvl=3; h,r-ind=1,1
    [4,3]((4,23,48),(3,16,33),(3,19,40),(2,12,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,16,33),(2,12,25),(6,35,73)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,40),(2,12,25),(6,35,73)); lvl=4; h,r-ind=1,1
      [3,3]((4,23,48),(3,16,33),(6,35,73)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,40),(4,23,48),(6,35,73)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,10),(2,9,18),(3,16,33),(2,12,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,18),(3,16,33),(4,21,43)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,25),(3,16,33),(4,21,43)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,10),(2,9,18),(4,21,43)); lvl=4; h,r-ind=1,1
      [3,3]((2,12,25),(1,5,10),(4,21,43)); lvl=4; h,r-ind=1,1
  [4,3]((4,23,48),(2,8,17),(1,6,13),(2,15,32)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,15),(2,10,21),(2,8,17),(1,6,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,13),(4,22,47),(2,9,19),(2,8,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,19),(4,22,47),(3,15,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,13),(4,22,47),(3,15,32)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,17),(2,9,19),(3,15,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,13),(2,8,17),(3,15,32)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,15),(1,6,13),(4,22,47)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,15),(4,22,47),(2,10,21),(2,9,19)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,22,47),(3,16,34),(2,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,10,21),(3,16,34),(2,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,15),(2,10,21),(3,16,34)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,15),(4,22,47),(3,16,34)); lvl=5; h,r-ind=1,1
    [3,3]((2,11,23),(1,7,15),(2,10,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,23),(1,7,15),(3,19,40)); lvl=3; h,r-ind=1,1
    [3,3]((2,15,32),(1,7,15),(3,19,40)); lvl=3; h,r-ind=1,1
    [3,3]((4,23,48),(2,11,23),(3,19,40)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((2,7,15),(2,8,17),(1,6,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(2,9,18),(4,23,48),(2,8,17)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,23),(4,23,48),(3,16,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(2,11,23),(3,16,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,18),(1,4,8),(3,16,33)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,8),(2,7,14),(2,10,21),(2,11,23)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,14),(2,10,21),(3,14,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,23),(2,10,21),(3,14,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(2,7,14),(3,14,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(2,11,23),(3,14,29)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,4),(2,8,17),(2,7,14),(2,10,21)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,4),(1,3,6),(2,8,17),(2,9,19)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,6),(2,9,19),(3,11,23)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,17),(2,9,19),(3,11,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,4),(1,3,6),(3,11,23)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,17),(1,2,4),(3,11,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(2,10,21),(2,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,14),(1,3,6),(2,10,21)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,15),(1,2,4),(2,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,15,31),(1,6,12),(1,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,17,36),(2,15,31),(1,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,15,31),(2,13,26),(1,6,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,11,24),(2,17,36),(1,6,13)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(1,11,24),(1,6,13)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,6,13),(2,7,15)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,7,15),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
```

24.20 Resolved

```
[3,3]((1,0,0),(0,1,0),(1,12,24)); lvl=0; h,r-ind=24,48
  [3,3]((1,12,24),(1,12,12),(1,6,12)); lvl=1; h,r-ind=72,12; alert-h-inc
    [4,3]((1,12,24),(1,12,18),(1,9,18),(1,9,15)); lvl=2; h,r-ind=9,3
      [4,3]((2,21,33),(4,42,75),(1,9,15),(2,18,33)); lvl=3; h,r-ind=9,3
        [3,3]((1,10,18),(2,18,33),(1,9,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,10,18),(3,30,52),(1,9,16)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((3,30,52),(1,10,16),(1,9,15),(1,9,16)); lvl=4; h,r-ind=1,1
          [4,3]((1,10,16),(1,10,17),(1,9,15),(3,28,48)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((1,10,17),(3,28,48),(2,19,32)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,15),(3,28,48),(2,19,32)); lvl=6; h,r-ind=1,1
            [3,3]((1,10,16),(1,10,17),(2,19,32)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,15),(1,10,16),(2,19,32)); lvl=6; h,r-ind=1,1
          [3,3]((1,9,16),(1,9,15),(3,28,48)); lvl=5; h,r-ind=1,1
          [3,3]((1,9,16),(1,10,17),(3,28,48)); lvl=5; h,r-ind=1,1
          [3,3]((3,30,52),(1,9,16),(1,10,17)); lvl=5; h,r-ind=1,1
        [5,3]((2,21,33),(5,51,88),(4,42,71),(3,30,52),(1,10,16)); lvl=4; h,r-ind=1,1
          [4,3]((2,21,33),(4,42,69),(1,10,17),(1,10,16)); lvl=5; h,r-ind=1,1
            [3,3]((1,10,17),(2,21,34),(4,41,67)); lvl=6; h,r-ind=1,1
            [4,3]((1,10,16),(2,21,33),(2,21,34),(4,41,67)); lvl=6; h,r-ind=1,2; alert-r-inc
              [3,3]((2,21,33),(3,31,50),(2,21,34)); lvl=7; h,r-ind=1,1
              [3,3]((4,41,67),(3,31,50),(2,21,34)); lvl=7; h,r-ind=1,1
              [3,3]((1,10,16),(2,21,33),(3,31,50)); lvl=7; h,r-ind=1,1
              [3,3]((4,41,67),(1,10,16),(3,31,50)); lvl=7; h,r-ind=1,1
            [3,3]((1,10,16),(1,10,17),(4,41,67)); lvl=6; h,r-ind=1,1
            [3,3]((1,10,17),(4,42,69),(2,21,34)); lvl=6; h,r-ind=1,1
          [3,3]((2,21,35),(4,42,69),(1,10,17)); lvl=5; h,r-ind=1,1
          [3,3]((3,31,53),(2,21,35),(1,10,17)); lvl=5; h,r-ind=1,1
          [4,3]((3,31,53),(5,51,88),(1,10,17),(3,30,52)); lvl=5; h,r-ind=1,1
            [3,3]((6,61,105),(3,30,52),(1,10,17)); lvl=6; h,r-ind=1,1
            [3,3]((3,31,53),(6,61,105),(1,10,17)); lvl=6; h,r-ind=1,1
            [3,3]((5,51,88),(6,61,105),(3,30,52)); lvl=6; h,r-ind=1,1
            [3,3]((3,31,53),(5,51,88),(6,61,105)); lvl=6; h,r-ind=1,1
          [3,3]((3,31,53),(4,42,71),(2,21,35)); lvl=5; h,r-ind=1,1
        [4,3]((1,10,18),(2,21,37),(5,51,88),(3,30,52)); lvl=4; h,r-ind=1,1
          [4,3]((2,20,35),(3,30,52),(7,72,125),(5,51,88)); lvl=5; h,r-ind=1,1
            [4,3]((4,41,71),(9,91,158),(3,30,52),(5,51,88)); lvl=6; h,r-ind=1,2; alert-r-inc
              [3,3]((9,91,158),(3,30,52),(7,71,123)); lvl=7; h,r-ind=1,1
              [3,3]((5,51,88),(3,30,52),(7,71,123)); lvl=7; h,r-ind=1,1
              [3,3]((4,41,71),(5,51,88),(7,71,123)); lvl=7; h,r-ind=1,1
              [3,3]((4,41,71),(9,91,158),(7,71,123)); lvl=7; h,r-ind=1,1
            [3,3]((2,20,35),(4,41,71),(9,91,158)); lvl=6; h,r-ind=1,1
            [3,3]((2,20,35),(7,72,125),(4,41,71)); lvl=6; h,r-ind=1,1
            [3,3]((2,20,35),(9,91,158),(3,30,52)); lvl=6; h,r-ind=1,1
          [4,3]((1,10,18),(2,20,35),(2,21,37),(7,72,125)); lvl=5; h,r-ind=1,1
            [3,3]((3,31,54),(2,20,35),(7,72,125)); lvl=6; h,r-ind=1,1
            [3,3]((6,61,107),(3,31,54),(2,20,35)); lvl=6; h,r-ind=1,1
            [3,3]((1,10,18),(6,61,107),(2,20,35)); lvl=6; h,r-ind=1,1
            [4,3]((1,10,18),(6,61,107),(2,21,37),(3,31,54)); lvl=6; h,r-ind=1,2; alert-r-inc
```

```
          [3,3]((3,31,54),(6,61,107),(4,41,72)); lvl=7; h,r-ind=1,1
          [3,3]((1,10,18),(6,61,107),(4,41,72)); lvl=7; h,r-ind=1,1
          [3,3]((2,21,37),(3,31,54),(4,41,72)); lvl=7; h,r-ind=1,1
          [3,3]((1,10,18),(2,21,37),(4,41,72)); lvl=7; h,r-ind=1,1
  [3,3]((1,10,18),(4,42,75),(2,21,37)); lvl=4; h,r-ind=1,1
  [3,3]((2,21,37),(5,51,88),(4,42,71)); lvl=4; h,r-ind=9,3; optimized-h
[4,3]((2,21,42),(4,42,75),(1,9,18),(2,18,33)); lvl=3; h,r-ind=9,3
  [3,3]((1,9,17),(1,10,18),(2,18,33)); lvl=4; h,r-ind=1,1
  [3,3]((3,30,56),(1,9,17),(1,10,18)); lvl=4; h,r-ind=2,2; optimized-h
  [4,3]((2,21,38),(5,51,95),(3,30,56),(1,10,18)); lvl=4; h,r-ind=1,1
    [4,3]((7,72,133),(2,20,37),(3,30,56),(5,51,95)); lvl=5; h,r-ind=1,1
      [3,3]((2,20,37),(3,30,56),(9,91,169)); lvl=6; h,r-ind=1,1
      [4,3]((4,41,76),(5,51,95),(3,30,56),(9,91,169)); lvl=6; h,r-ind=1,2; alert-r-inc
        [3,3]((7,71,132),(3,30,56),(5,51,95)); lvl=7; h,r-ind=1,1
        [3,3]((4,41,76),(7,71,132),(5,51,95)); lvl=7; h,r-ind=1,1
        [3,3]((9,91,169),(7,71,132),(3,30,56)); lvl=7; h,r-ind=1,1
        [3,3]((4,41,76),(9,91,169),(7,71,132)); lvl=7; h,r-ind=1,1
      [3,3]((4,41,76),(2,20,37),(9,91,169)); lvl=6; h,r-ind=1,1
      [3,3]((7,72,133),(4,41,76),(2,20,37)); lvl=6; h,r-ind=1,1
    [4,3]((2,21,38),(7,72,133),(1,10,18),(2,20,37)); lvl=5; h,r-ind=1,1
      [3,3]((6,61,112),(2,20,37),(1,10,18)); lvl=6; h,r-ind=1,1
      [4,3]((2,21,38),(3,31,57),(6,61,112),(1,10,18)); lvl=6; h,r-ind=1,2; alert-r-inc
        [3,3]((4,41,75),(3,31,57),(6,61,112)); lvl=7; h,r-ind=1,1
        [3,3]((4,41,75),(1,10,18),(6,61,112)); lvl=7; h,r-ind=1,1
        [3,3]((2,21,38),(4,41,75),(1,10,18)); lvl=7; h,r-ind=1,1
        [3,3]((2,21,38),(4,41,75),(3,31,57)); lvl=7; h,r-ind=1,1
      [3,3]((3,31,57),(6,61,112),(2,20,37)); lvl=6; h,r-ind=1,1
      [3,3]((7,72,133),(3,31,57),(2,20,37)); lvl=6; h,r-ind=1,1
  [3,3]((4,42,75),(2,21,38),(1,10,18)); lvl=4; h,r-ind=1,1
  [5,3]((2,21,42),(1,10,20),(5,51,95),(4,42,79),(3,30,56)); lvl=4; h,r-ind=1,1
    [4,3]((2,21,42),(4,42,81),(1,10,19),(1,10,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,21,41),(1,10,19),(4,42,81)); lvl=6; h,r-ind=1,1
      [3,3]((2,21,41),(4,41,80),(1,10,19)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,20),(4,41,80),(1,10,19)); lvl=6; h,r-ind=1,1
      [4,3]((2,21,41),(2,21,42),(1,10,20),(4,41,80)); lvl=6; h,r-ind=1,2; alert-r-inc
        [3,3]((2,21,42),(3,31,61),(1,10,20)); lvl=7; h,r-ind=1,1
        [3,3]((4,41,80),(3,31,61),(1,10,20)); lvl=7; h,r-ind=1,1
        [3,3]((2,21,41),(4,41,80),(3,31,61)); lvl=7; h,r-ind=1,1
        [3,3]((2,21,41),(2,21,42),(3,31,61)); lvl=7; h,r-ind=1,1
    [3,3]((2,21,40),(4,42,81),(1,10,19)); lvl=5; h,r-ind=1,1
    [3,3]((2,21,40),(3,31,58),(1,10,19)); lvl=5; h,r-ind=1,1
    [4,3]((3,31,58),(5,51,95),(3,30,56),(1,10,19)); lvl=5; h,r-ind=1,1
      [3,3]((3,30,56),(5,51,95),(6,61,114)); lvl=6; h,r-ind=1,1
      [3,3]((3,31,58),(5,51,95),(6,61,114)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,19),(3,31,58),(6,61,114)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,19),(3,30,56),(6,61,114)); lvl=6; h,r-ind=1,1
    [3,3]((2,21,40),(4,42,79),(3,31,58)); lvl=5; h,r-ind=1,1
  [3,3]((2,21,38),(5,51,95),(4,42,79)); lvl=4; h,r-ind=9,3; optimized-h
  [4,3]((1,10,20),(3,30,56),(1,9,18),(1,9,17)); lvl=4; h,r-ind=1,1
    [3,3]((3,28,54),(1,9,17),(1,9,18)); lvl=5; h,r-ind=1,1
    [4,3]((1,10,20),(1,10,19),(3,28,54),(1,9,18)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((1,10,19),(3,28,54),(2,19,37)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,18),(3,28,54),(2,19,37)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,20),(1,10,19),(2,19,37)); lvl=6; h,r-ind=1,1
      [3,3]((1,9,18),(1,10,20),(2,19,37)); lvl=6; h,r-ind=1,1
    [3,3]((1,10,19),(3,28,54),(1,9,17)); lvl=5; h,r-ind=1,1
    [3,3]((1,10,19),(3,30,56),(1,9,17)); lvl=5; h,r-ind=1,1
[4,3]((1,12,18),(1,12,21),(2,21,33),(4,42,75)); lvl=3; h,r-ind=9,3
  [4,3]((5,54,96),(1,11,19),(4,42,75),(2,21,37)); lvl=4; h,r-ind=1,1
    [4,3]((3,32,57),(6,64,113),(4,42,75),(2,21,37)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((5,53,94),(4,42,75),(2,21,37)); lvl=6; h,r-ind=1,1
      [3,3]((6,64,113),(5,53,94),(2,21,37)); lvl=6; h,r-ind=1,1
      [3,3]((3,32,57),(6,64,113),(5,53,94)); lvl=6; h,r-ind=1,1
      [3,3]((3,32,57),(5,53,94),(4,42,75)); lvl=6; h,r-ind=1,1
    [3,3]((1,11,19),(6,64,113),(2,21,37)); lvl=5; h,r-ind=1,1
    [3,3]((3,32,57),(1,11,19),(6,64,113)); lvl=5; h,r-ind=1,1
    [3,3]((5,54,96),(3,32,57),(1,11,19)); lvl=5; h,r-ind=1,1
  [4,3]((2,22,37),(1,11,19),(4,42,71),(2,21,37)); lvl=4; h,r-ind=1,1
    [4,3]((1,11,19),(7,75,128),(2,21,36),(2,21,37)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((3,32,55),(7,75,128),(2,21,36)); lvl=6; h,r-ind=1,1
      [3,3]((2,21,37),(3,32,55),(2,21,36)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,19),(2,21,37),(3,32,55)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,19),(3,32,55),(7,75,128)); lvl=6; h,r-ind=1,1
    [4,3]((2,22,37),(4,43,73),(1,11,19),(7,75,128)); lvl=5; h,r-ind=1,1
      [3,3]((4,43,73),(7,75,128),(5,54,92)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,19),(7,75,128),(5,54,92)); lvl=6; h,r-ind=1,1
      [3,3]((2,22,37),(4,43,73),(5,54,92)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,19),(2,22,37),(5,54,92)); lvl=6; h,r-ind=1,1
    [3,3]((3,32,54),(2,22,37),(4,43,73)); lvl=5; h,r-ind=1,1
    [4,3]((3,32,54),(4,43,73),(7,75,128),(2,21,36)); lvl=5; h,r-ind=1,1
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        [3,3]((4,43,73),(7,75,128),(6,64,109)); lvl=6; h,r-ind=1,1
        [3,3]((2,21,36),(7,75,128),(6,64,109)); lvl=6; h,r-ind=1,1
        [3,3]((3,32,54),(4,43,73),(6,64,109)); lvl=6; h,r-ind=1,1
        [3,3]((2,21,36),(3,32,54),(6,64,109)); lvl=6; h,r-ind=1,1
      [3,3]((3,32,54),(4,42,71),(2,21,36)); lvl=5; h,r-ind=1,1
    [4,3]((2,22,37),(1,11,17),(2,21,33),(4,42,71)); lvl=4; h,r-ind=1,1
      [4,3]((1,11,18),(1,11,17),(4,42,69),(2,21,33)); lvl=5; h,r-ind=1,1
        [4,3]((1,11,17),(2,21,34),(2,21,33),(4,43,69)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((2,21,33),(3,32,51),(2,21,34)); lvl=7; h,r-ind=1,1
          [3,3]((4,43,69),(3,32,51),(2,21,34)); lvl=7; h,r-ind=1,1
          [3,3]((1,11,17),(4,43,69),(3,32,51)); lvl=7; h,r-ind=1,1
          [3,3]((1,11,17),(2,21,33),(3,32,51)); lvl=7; h,r-ind=1,1
        [3,3]((1,11,18),(1,11,17),(4,43,69)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,18),(2,21,34),(4,43,69)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,18),(2,21,34),(4,42,69)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,18),(4,42,69),(2,21,35)); lvl=5; h,r-ind=1,1
      [3,3]((3,32,54),(1,11,18),(2,21,35)); lvl=5; h,r-ind=1,1
      [3,3]((2,22,37),(3,32,54),(1,11,18)); lvl=5; h,r-ind=1,1
      [3,3]((4,42,71),(3,32,54),(2,21,35)); lvl=5; h,r-ind=1,1
    [4,3]((1,12,18),(2,22,37),(2,24,39),(1,11,17)); lvl=4; h,r-ind=3,1
      [3,3]((1,12,19),(2,24,39),(2,23,38)); lvl=5; h,r-ind=1,1
      [3,3]((1,12,19),(1,11,18),(2,23,38)); lvl=5; h,r-ind=1,1
      [3,3]((1,11,18),(2,22,37),(2,23,38)); lvl=5; h,r-ind=1,1
      [4,3]((1,12,18),(1,12,19),(1,11,18),(1,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,12,19),(1,11,18),(2,23,36)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,17),(1,11,18),(2,23,36)); lvl=6; h,r-ind=1,1
        [3,3]((1,12,18),(1,12,19),(2,23,36)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,17),(1,12,18),(2,23,36)); lvl=6; h,r-ind=1,1
    [3,3]((1,12,21),(5,54,96),(1,11,19)); lvl=4; h,r-ind=3,3; optimized-h
    [4,3]((2,22,37),(1,12,21),(2,24,39),(1,11,19)); lvl=4; h,r-ind=1,1
      [4,3]((1,11,19),(5,57,96),(1,12,21),(1,12,20)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((2,23,39),(1,12,21),(1,12,20)); lvl=6; h,r-ind=1,1
        [3,3]((5,57,96),(2,23,39),(1,12,20)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,19),(5,57,96),(2,23,39)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,19),(2,23,39),(1,12,21)); lvl=6; h,r-ind=1,1
      [4,3]((2,23,38),(3,34,57),(5,57,96),(1,12,20)); lvl=5; h,r-ind=1,1
        [3,3]((3,34,57),(5,57,96),(4,46,77)); lvl=6; h,r-ind=1,1
        [3,3]((1,12,20),(5,57,96),(4,46,77)); lvl=6; h,r-ind=1,1
        [3,3]((2,23,38),(3,34,57),(4,46,77)); lvl=6; h,r-ind=1,1
        [3,3]((1,12,20),(2,23,38),(4,46,77)); lvl=6; h,r-ind=1,1
      [3,3]((2,23,38),(2,24,39),(1,12,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,22,37),(2,23,38),(3,34,57)); lvl=5; h,r-ind=1,1
      [4,3]((1,11,19),(2,22,37),(3,34,57),(5,57,96)); lvl=5; h,r-ind=1,1
        [3,3]((4,45,76),(3,34,57),(2,22,37)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,19),(4,45,76),(2,22,37)); lvl=6; h,r-ind=1,1
        [3,3]((4,45,76),(5,57,96),(3,34,57)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,19),(4,45,76),(5,57,96)); lvl=6; h,r-ind=1,1
  [4,3]((1,12,24),(2,21,42),(1,12,21),(4,42,75)); lvl=3; h,r-ind=9,3
    [4,3]((5,54,96),(1,11,20),(4,42,75),(2,21,38)); lvl=4; h,r-ind=1,1
      [4,3]((3,32,57),(4,42,75),(2,21,38),(6,64,115)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((4,42,75),(5,53,95),(2,21,38)); lvl=6; h,r-ind=1,1
        [3,3]((6,64,115),(5,53,95),(2,21,38)); lvl=6; h,r-ind=1,1
        [3,3]((3,32,57),(6,64,115),(5,53,95)); lvl=6; h,r-ind=1,1
        [3,3]((3,32,57),(4,42,75),(5,53,95)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,20),(2,21,38),(6,64,115)); lvl=5; h,r-ind=1,1
      [3,3]((1,11,20),(3,32,57),(6,64,115)); lvl=5; h,r-ind=1,1
      [3,3]((1,11,20),(5,54,96),(3,32,57)); lvl=5; h,r-ind=1,1
    [4,3]((2,22,41),(4,42,79),(1,11,20),(2,21,38)); lvl=4; h,r-ind=1,1
      [4,3]((1,11,20),(7,75,139),(2,21,38),(2,21,39)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((2,21,38),(3,32,59),(2,21,39)); lvl=6; h,r-ind=1,1
        [3,3]((7,75,139),(3,32,59),(2,21,39)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,20),(2,21,38),(3,32,59)); lvl=6; h,r-ind=1,1
        [3,3]((7,75,139),(1,11,20),(3,32,59)); lvl=6; h,r-ind=1,1
      [4,3]((4,43,80),(7,75,139),(3,32,60),(2,21,39)); lvl=5; h,r-ind=1,1
        [3,3]((6,64,119),(2,21,39),(7,75,139)); lvl=6; h,r-ind=1,1
        [3,3]((4,43,80),(6,64,119),(7,75,139)); lvl=6; h,r-ind=1,1
        [3,3]((4,43,80),(6,64,119),(3,32,60)); lvl=6; h,r-ind=1,1
        [3,3]((6,64,119),(3,32,60),(2,21,39)); lvl=6; h,r-ind=1,1
      [3,3]((3,32,60),(4,42,79),(2,21,39)); lvl=5; h,r-ind=1,1
      [3,3]((2,22,41),(4,43,80),(3,32,60)); lvl=5; h,r-ind=1,1
      [4,3]((2,22,41),(4,43,80),(1,11,20),(7,75,139)); lvl=5; h,r-ind=1,1
        [3,3]((5,54,100),(4,43,80),(7,75,139)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,20),(5,54,100),(7,75,139)); lvl=6; h,r-ind=1,1
        [3,3]((2,22,41),(5,54,100),(4,43,80)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,20),(2,22,41),(5,54,100)); lvl=6; h,r-ind=1,1
    [4,3]((1,12,21),(2,24,45),(2,22,41),(1,11,20)); lvl=4; h,r-ind=1,1
      [3,3]((2,23,43),(3,34,63),(2,22,41)); lvl=5; h,r-ind=1,1
      [4,3]((1,11,20),(5,57,105),(3,34,63),(2,22,41)); lvl=5; h,r-ind=1,1
        [3,3]((4,45,83),(5,57,105),(3,34,63)); lvl=6; h,r-ind=1,1
        [3,3]((2,22,41),(4,45,83),(3,34,63)); lvl=6; h,r-ind=1,1
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        [3,3]((1,11,20),(2,22,41),(4,45,83)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,20),(4,45,83),(5,57,105)); lvl=6; h,r-ind=1,1
      [4,3]((1,12,22),(5,57,105),(2,23,43),(3,34,63)); lvl=5; h,r-ind=1,1
        [3,3]((5,57,105),(4,46,85),(3,34,63)); lvl=6; h,r-ind=1,1
        [3,3]((2,23,43),(4,46,85),(3,34,63)); lvl=6; h,r-ind=1,1
        [3,3]((1,12,22),(5,57,105),(4,46,85)); lvl=6; h,r-ind=1,1
        [3,3]((2,23,43),(1,12,22),(4,46,85)); lvl=6; h,r-ind=1,1
      [3,3]((1,12,22),(2,24,45),(2,23,43)); lvl=5; h,r-ind=1,1
      [4,3]((1,11,20),(1,12,21),(1,12,22),(5,57,105)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((2,23,42),(1,12,21),(1,12,22)); lvl=6; h,r-ind=1,1
        [3,3]((5,57,105),(2,23,42),(1,12,22)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,20),(5,57,105),(2,23,42)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,20),(2,23,42),(1,12,21)); lvl=6; h,r-ind=1,1
    [4,3]((2,21,42),(1,11,22),(2,22,41),(4,42,79)); lvl=4; h,r-ind=1,1
      [3,3]((3,32,60),(2,22,41),(1,11,21)); lvl=5; h,r-ind=1,1
      [3,3]((2,21,40),(3,32,60),(1,11,21)); lvl=5; h,r-ind=1,1
      [3,3]((2,21,40),(4,42,81),(1,11,21)); lvl=5; h,r-ind=1,1
      [4,3]((2,21,42),(4,42,81),(1,11,22),(1,11,21)); lvl=5; h,r-ind=1,1
        [3,3]((4,43,84),(1,11,21),(1,11,22)); lvl=6; h,r-ind=1,1
        [4,3]((2,21,42),(2,21,41),(4,43,84),(1,11,22)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((3,32,63),(4,43,84),(2,21,41)); lvl=7; h,r-ind=1,1
          [3,3]((2,21,42),(3,32,63),(2,21,41)); lvl=7; h,r-ind=1,1
          [3,3]((3,32,63),(1,11,22),(4,43,84)); lvl=7; h,r-ind=1,1
          [3,3]((2,21,42),(3,32,63),(1,11,22)); lvl=7; h,r-ind=1,1
        [3,3]((2,21,41),(4,43,84),(1,11,21)); lvl=6; h,r-ind=1,1
        [3,3]((4,42,81),(2,21,41),(1,11,21)); lvl=6; h,r-ind=1,1
      [3,3]((4,42,79),(2,21,40),(3,32,60)); lvl=5; h,r-ind=1,1
    [4,3]((1,12,24),(2,24,45),(1,11,22),(2,22,41)); lvl=4; h,r-ind=3,1
      [3,3]((2,23,43),(1,11,21),(2,22,41)); lvl=5; h,r-ind=1,1
      [3,3]((1,12,23),(2,23,43),(1,11,21)); lvl=5; h,r-ind=1,1
      [4,3]((1,12,24),(1,12,23),(1,11,22),(1,11,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,11,22),(1,11,21),(2,23,45)); lvl=6; h,r-ind=1,1
        [3,3]((1,12,23),(1,11,21),(2,23,45)); lvl=6; h,r-ind=1,1
        [3,3]((1,12,24),(1,12,23),(2,23,45)); lvl=6; h,r-ind=1,1
        [3,3]((1,12,24),(1,11,22),(2,23,45)); lvl=6; h,r-ind=1,1
      [3,3]((1,12,23),(2,24,45),(2,23,43)); lvl=5; h,r-ind=1,1
    [3,3]((1,12,21),(5,54,96),(1,11,20)); lvl=4; h,r-ind=3,3; optimized-h
[3,3]((1,6,12),(1,9,18),(1,9,15)); lvl=2; h,r-ind=9,3; optimized-h
[4,3]((1,12,12),(1,9,12),(1,12,18),(1,9,15)); lvl=2; h,r-ind=9,3
  [4,3]((2,21,33),(4,42,57),(1,9,15),(2,18,27)); lvl=3; h,r-ind=9,3
    [3,3]((1,9,14),(1,10,14),(2,18,27)); lvl=4; h,r-ind=1,1
    [3,3]((3,30,44),(1,9,14),(1,10,14)); lvl=4; h,r-ind=2,2; optimized-h
    [4,3]((2,21,29),(5,51,74),(3,30,44),(1,10,14)); lvl=4; h,r-ind=1,1
      [4,3]((5,51,74),(7,72,103),(3,30,44),(2,20,29)); lvl=5; h,r-ind=1,1
        [3,3]((3,30,44),(9,91,132),(2,20,29)); lvl=6; h,r-ind=1,1
        [3,3]((4,41,59),(9,91,132),(2,20,29)); lvl=6; h,r-ind=1,1
        [3,3]((4,41,59),(7,72,103),(2,20,29)); lvl=6; h,r-ind=1,1
        [4,3]((5,51,74),(4,41,59),(3,30,44),(9,91,132)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((4,41,59),(9,91,132),(7,71,103)); lvl=7; h,r-ind=1,1
          [3,3]((3,30,44),(9,91,132),(7,71,103)); lvl=7; h,r-ind=1,1
          [3,3]((5,51,74),(4,41,59),(7,71,103)); lvl=7; h,r-ind=1,1
          [3,3]((3,30,44),(5,51,74),(7,71,103)); lvl=7; h,r-ind=1,1
      [4,3]((2,21,29),(1,10,14),(7,72,103),(2,20,29)); lvl=5; h,r-ind=1,1
        [3,3]((6,61,87),(2,20,29),(1,10,14)); lvl=6; h,r-ind=1,1
        [4,3]((2,21,29),(3,31,44),(6,61,87),(1,10,14)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((4,41,58),(6,61,87),(3,31,44)); lvl=7; h,r-ind=1,1
          [3,3]((2,21,29),(4,41,58),(3,31,44)); lvl=7; h,r-ind=1,1
          [3,3]((1,10,14),(2,21,29),(4,41,58)); lvl=7; h,r-ind=1,1
          [3,3]((1,10,14),(4,41,58),(6,61,87)); lvl=7; h,r-ind=1,1
        [3,3]((3,31,44),(6,61,87),(2,20,29)); lvl=6; h,r-ind=1,1
        [3,3]((7,72,103),(3,31,44),(2,20,29)); lvl=6; h,r-ind=1,1
    [3,3]((4,42,57),(2,21,29),(1,10,14)); lvl=4; h,r-ind=1,1
    [5,3]((2,21,33),(1,10,16),(5,51,74),(4,42,61),(3,30,44)); lvl=4; h,r-ind=1,1
      [4,3]((2,21,33),(4,42,63),(1,10,15),(1,10,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,15),(2,21,32),(4,41,63)); lvl=6; h,r-ind=1,1
        [4,3]((1,10,16),(2,21,33),(2,21,32),(4,41,63)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((2,21,32),(2,21,33),(3,31,48)); lvl=7; h,r-ind=1,1
          [3,3]((1,10,16),(2,21,33),(3,31,48)); lvl=7; h,r-ind=1,1
          [3,3]((4,41,63),(2,21,32),(3,31,48)); lvl=7; h,r-ind=1,1
          [3,3]((1,10,16),(4,41,63),(3,31,48)); lvl=7; h,r-ind=1,1
        [3,3]((1,10,16),(1,10,15),(4,41,63)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,15),(4,42,63),(2,21,32)); lvl=6; h,r-ind=1,1
      [3,3]((2,21,31),(4,42,63),(1,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((2,21,31),(3,31,45),(1,10,15)); lvl=5; h,r-ind=1,1
      [4,3]((3,31,45),(5,51,74),(3,30,44),(1,10,15)); lvl=5; h,r-ind=1,1
        [3,3]((3,30,44),(5,51,74),(6,61,89)); lvl=6; h,r-ind=1,1
        [3,3]((3,31,45),(5,51,74),(6,61,89)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,15),(3,31,45),(6,61,89)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,15),(3,30,44),(6,61,89)); lvl=6; h,r-ind=1,1
      [3,3]((2,21,31),(4,42,61),(3,31,45)); lvl=5; h,r-ind=1,1
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    [3,3]((2,21,29),(5,51,74),(4,42,61)); lvl=4; h,r-ind=9,3; optimized-h
    [4,3]((1,10,16),(3,30,44),(1,9,15),(1,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,15),(1,9,14),(3,28,44)); lvl=5; h,r-ind=1,1
      [3,3]((1,10,15),(1,9,14),(3,28,44)); lvl=5; h,r-ind=1,1
      [3,3]((1,10,15),(3,30,44),(1,9,14)); lvl=5; h,r-ind=1,1
      [4,3]((1,10,16),(1,10,15),(1,9,15),(3,28,44)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,19,30),(1,10,15),(3,28,44)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,15),(2,19,30),(3,28,44)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,16),(2,19,30),(1,10,15)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,15),(1,10,16),(2,19,30)); lvl=6; h,r-ind=1,1
  [4,3]((2,21,24),(4,42,57),(1,9,12),(2,18,27)); lvl=3; h,r-ind=9,3
    [3,3]((1,9,13),(1,10,14),(2,18,27)); lvl=4; h,r-ind=1,1
    [3,3]((3,30,40),(1,9,13),(1,10,14)); lvl=4; h,r-ind=2,2; optimized-h
    [4,3]((2,21,28),(5,51,67),(3,30,40),(1,10,14)); lvl=4; h,r-ind=1,1
      [4,3]((7,72,95),(2,20,27),(5,51,67),(3,30,40)); lvl=5; h,r-ind=1,1
        [3,3]((2,20,27),(3,30,40),(9,91,121)); lvl=6; h,r-ind=1,1
        [4,3]((4,41,54),(5,51,67),(3,30,40),(9,91,121)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((5,51,67),(7,71,94),(3,30,40)); lvl=7; h,r-ind=1,1
          [3,3]((9,91,121),(7,71,94),(3,30,40)); lvl=7; h,r-ind=1,1
          [3,3]((4,41,54),(5,51,67),(7,71,94)); lvl=7; h,r-ind=1,1
          [3,3]((9,91,121),(4,41,54),(7,71,94)); lvl=7; h,r-ind=1,1
        [3,3]((4,41,54),(2,20,27),(9,91,121)); lvl=6; h,r-ind=1,1
        [3,3]((7,72,95),(4,41,54),(2,20,27)); lvl=6; h,r-ind=1,1
      [4,3]((2,21,28),(7,72,95),(1,10,14),(2,20,27)); lvl=5; h,r-ind=1,1
        [3,3]((6,61,82),(2,20,27),(1,10,14)); lvl=6; h,r-ind=1,1
        [4,3]((2,21,28),(3,31,41),(6,61,82),(1,10,14)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((4,41,55),(3,31,41),(6,61,82)); lvl=7; h,r-ind=1,1
          [3,3]((4,41,55),(1,10,14),(6,61,82)); lvl=7; h,r-ind=1,1
          [3,3]((2,21,28),(4,41,55),(1,10,14)); lvl=7; h,r-ind=1,1
          [3,3]((2,21,28),(4,41,55),(3,31,41)); lvl=7; h,r-ind=1,1
        [3,3]((3,31,41),(6,61,82),(2,20,27)); lvl=6; h,r-ind=1,1
        [3,3]((7,72,95),(3,31,41),(2,20,27)); lvl=6; h,r-ind=1,1
    [3,3]((4,42,57),(2,21,28),(1,10,14)); lvl=4; h,r-ind=1,1
    [5,3]((2,21,24),(1,10,12),(5,51,67),(4,42,53),(3,30,40)); lvl=4; h,r-ind=1,1
      [4,3]((2,21,24),(4,42,51),(1,10,13),(1,10,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,10,13),(2,21,25),(4,41,50)); lvl=6; h,r-ind=1,1
        [4,3]((1,10,12),(2,21,24),(2,21,25),(4,41,50)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((3,31,37),(2,21,25),(2,21,24)); lvl=7; h,r-ind=1,1
          [3,3]((1,10,12),(3,31,37),(2,21,24)); lvl=7; h,r-ind=1,1
          [3,3]((4,41,50),(3,31,37),(2,21,25)); lvl=7; h,r-ind=1,1
          [3,3]((1,10,12),(4,41,50),(3,31,37)); lvl=7; h,r-ind=1,1
        [3,3]((1,10,12),(1,10,13),(4,41,50)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,13),(4,42,51),(2,21,25)); lvl=6; h,r-ind=1,1
      [3,3]((2,21,26),(4,42,51),(1,10,13)); lvl=5; h,r-ind=1,1
      [3,3]((3,31,40),(2,21,26),(1,10,13)); lvl=5; h,r-ind=1,1
      [4,3]((3,31,40),(5,51,67),(3,30,40),(1,10,13)); lvl=5; h,r-ind=1,1
        [3,3]((3,30,40),(5,51,67),(6,61,80)); lvl=6; h,r-ind=1,1
        [3,3]((3,31,40),(5,51,67),(6,61,80)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,13),(3,31,40),(6,61,80)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,13),(3,30,40),(6,61,80)); lvl=6; h,r-ind=1,1
      [3,3]((4,42,53),(3,31,40),(2,21,26)); lvl=5; h,r-ind=1,1
    [3,3]((2,21,28),(5,51,67),(4,42,53)); lvl=4; h,r-ind=9,3; optimized-h
    [4,3]((1,10,12),(3,30,40),(1,9,12),(1,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,28,38),(1,9,13),(1,9,12)); lvl=5; h,r-ind=1,1
      [4,3]((1,10,12),(1,10,13),(3,28,38),(1,9,12)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((1,10,13),(3,28,38),(2,19,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,12),(3,28,38),(2,19,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,12),(1,10,13),(2,19,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,12),(1,10,12),(2,19,25)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,13),(3,28,38),(1,9,13)); lvl=5; h,r-ind=1,1
      [3,3]((3,30,40),(1,10,13),(1,9,13)); lvl=5; h,r-ind=1,1
  [4,3]((1,12,18),(1,12,15),(2,21,33),(4,42,57)); lvl=3; h,r-ind=9,3
    [4,3]((1,11,15),(5,54,72),(4,42,57),(2,21,29)); lvl=4; h,r-ind=1,1
      [4,3]((2,21,29),(6,64,87),(3,32,43),(4,42,57)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((6,64,87),(3,32,43),(5,53,72)); lvl=6; h,r-ind=1,1
        [3,3]((4,42,57),(3,32,43),(5,53,72)); lvl=6; h,r-ind=1,1
        [3,3]((2,21,29),(4,42,57),(5,53,72)); lvl=6; h,r-ind=1,1
        [3,3]((2,21,29),(6,64,87),(5,53,72)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,15),(6,64,87),(3,32,43)); lvl=5; h,r-ind=1,1
      [3,3]((1,11,15),(5,54,72),(3,32,43)); lvl=5; h,r-ind=1,1
      [3,3]((2,21,29),(1,11,15),(6,64,87)); lvl=5; h,r-ind=1,1
    [4,3]((1,11,15),(2,22,31),(4,42,61),(2,21,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,21,30),(4,42,61),(3,32,46)); lvl=5; h,r-ind=1,1
      [4,3]((2,21,30),(4,43,61),(7,75,106),(3,32,46)); lvl=5; h,r-ind=1,1
        [3,3]((7,75,106),(6,64,91),(4,43,61)); lvl=6; h,r-ind=1,1
        [3,3]((3,32,46),(6,64,91),(4,43,61)); lvl=6; h,r-ind=1,1
        [3,3]((2,21,30),(3,32,46),(6,64,91)); lvl=6; h,r-ind=1,1
        [3,3]((2,21,30),(7,75,106),(6,64,91)); lvl=6; h,r-ind=1,1
      [3,3]((4,43,61),(2,22,31),(3,32,46)); lvl=5; h,r-ind=1,1
      [4,3]((1,11,15),(4,43,61),(7,75,106),(2,22,31)); lvl=5; h,r-ind=1,1
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      [3,3]((5,54,76),(7,75,106),(4,43,61)); lvl=6; h,r-ind=1,1
      [3,3]((2,22,31),(5,54,76),(4,43,61)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,15),(2,22,31),(5,54,76)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,15),(5,54,76),(7,75,106)); lvl=6; h,r-ind=1,1
    [4,3]((1,11,15),(2,21,29),(2,21,30),(7,75,106)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((2,21,29),(3,32,45),(2,21,30)); lvl=6; h,r-ind=1,1
      [3,3]((7,75,106),(3,32,45),(2,21,30)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,15),(7,75,106),(3,32,45)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,15),(2,21,29),(3,32,45)); lvl=6; h,r-ind=1,1
  [4,3]((1,11,17),(2,22,31),(2,21,33),(4,42,61)); lvl=4; h,r-ind=1,1
    [3,3]((1,11,16),(2,21,31),(4,42,63)); lvl=5; h,r-ind=1,1
    [4,3]((1,11,17),(1,11,16),(2,21,33),(4,42,63)); lvl=5; h,r-ind=1,1
      [3,3]((1,11,16),(4,42,63),(2,21,32)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,16),(4,43,65),(2,21,32)); lvl=6; h,r-ind=1,1
      [4,3]((1,11,17),(4,43,65),(2,21,33),(2,21,32)); lvl=6; h,r-ind=1,2; alert-r-inc
        [3,3]((3,32,49),(2,21,32),(2,21,33)); lvl=7; h,r-ind=1,1
        [3,3]((1,11,17),(3,32,49),(2,21,33)); lvl=7; h,r-ind=1,1
        [3,3]((3,32,49),(4,43,65),(2,21,32)); lvl=7; h,r-ind=1,1
        [3,3]((1,11,17),(3,32,49),(4,43,65)); lvl=7; h,r-ind=1,1
      [3,3]((1,11,17),(1,11,16),(4,43,65)); lvl=6; h,r-ind=1,1
    [3,3]((1,11,16),(3,32,46),(2,21,31)); lvl=5; h,r-ind=1,1
    [3,3]((3,32,46),(4,42,61),(2,21,31)); lvl=5; h,r-ind=1,1
    [3,3]((1,11,16),(3,32,46),(2,22,31)); lvl=5; h,r-ind=1,1
  [4,3]((1,12,15),(2,24,33),(1,11,15),(2,22,31)); lvl=4; h,r-ind=1,1
    [4,3]((3,34,47),(5,57,78),(2,22,31),(1,11,15)); lvl=5; h,r-ind=1,1
      [3,3]((4,45,62),(1,11,15),(2,22,31)); lvl=6; h,r-ind=1,1
      [3,3]((3,34,47),(4,45,62),(2,22,31)); lvl=6; h,r-ind=1,1
      [3,3]((3,34,47),(5,57,78),(4,45,62)); lvl=6; h,r-ind=1,1
      [3,3]((5,57,78),(4,45,62),(1,11,15)); lvl=6; h,r-ind=1,1
    [4,3]((1,12,15),(1,12,16),(5,57,78),(1,11,15)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((1,12,16),(2,23,31),(5,57,78)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,15),(2,23,31),(5,57,78)); lvl=6; h,r-ind=1,1
      [3,3]((1,12,15),(1,12,16),(2,23,31)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,15),(1,12,15),(2,23,31)); lvl=6; h,r-ind=1,1
    [3,3]((2,23,32),(3,34,47),(2,22,31)); lvl=5; h,r-ind=1,1
    [4,3]((1,12,16),(2,23,32),(3,34,47),(5,57,78)); lvl=5; h,r-ind=1,1
      [3,3]((4,46,63),(3,34,47),(2,23,32)); lvl=6; h,r-ind=1,1
      [3,3]((1,12,16),(4,46,63),(2,23,32)); lvl=6; h,r-ind=1,1
      [3,3]((5,57,78),(1,12,16),(4,46,63)); lvl=6; h,r-ind=1,1
      [3,3]((5,57,78),(4,46,63),(3,34,47)); lvl=6; h,r-ind=1,1
    [3,3]((2,24,33),(1,12,16),(2,23,32)); lvl=5; h,r-ind=1,1
  [4,3]((1,11,17),(1,12,18),(2,24,33),(2,22,31)); lvl=4; h,r-ind=3,1
    [3,3]((1,12,17),(2,23,32),(2,24,33)); lvl=5; h,r-ind=1,1
    [3,3]((1,11,16),(1,12,17),(2,23,32)); lvl=5; h,r-ind=1,1
    [3,3]((2,22,31),(1,11,16),(2,23,32)); lvl=5; h,r-ind=1,1
    [4,3]((1,11,16),(1,11,17),(1,12,17),(1,12,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,12,17),(1,12,18),(2,23,34)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,17),(1,12,18),(2,23,34)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,16),(1,12,17),(2,23,34)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,17),(1,11,16),(2,23,34)); lvl=6; h,r-ind=1,1
  [3,3]((1,12,15),(1,11,15),(5,54,72)); lvl=4; h,r-ind=3,3; optimized-h
[4,3]((1,12,12),(2,21,24),(1,12,15),(4,42,57)); lvl=3; h,r-ind=9,3
  [4,3]((4,42,57),(5,54,72),(2,21,28),(1,11,14)); lvl=4; h,r-ind=1,1
    [3,3]((1,11,14),(3,32,43),(5,54,72)); lvl=5; h,r-ind=1,1
    [3,3]((6,64,85),(1,11,14),(3,32,43)); lvl=5; h,r-ind=1,1
    [4,3]((4,42,57),(6,64,85),(2,21,28),(3,32,43)); lvl=5; h,r-ind=1,2; alert-r-inc
      [3,3]((5,53,71),(2,21,28),(6,64,85)); lvl=6; h,r-ind=1,1
      [3,3]((3,32,43),(5,53,71),(6,64,85)); lvl=6; h,r-ind=1,1
      [3,3]((4,42,57),(5,53,71),(2,21,28)); lvl=6; h,r-ind=1,1
      [3,3]((3,32,43),(4,42,57),(5,53,71)); lvl=6; h,r-ind=1,1
    [3,3]((6,64,85),(2,21,28),(1,11,14)); lvl=5; h,r-ind=1,1
  [4,3]((2,22,27),(4,42,53),(2,21,28),(1,11,14)); lvl=4; h,r-ind=1,1
    [4,3]((1,11,14),(7,75,95),(2,21,27),(2,21,28)); lvl=5; h,r-ind=1,3; alert-r-inc
      [3,3]((3,32,41),(7,75,95),(2,21,27)); lvl=6; h,r-ind=1,1
      [3,3]((2,21,28),(3,32,41),(2,21,27)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,14),(2,21,28),(3,32,41)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,14),(3,32,41),(7,75,95)); lvl=6; h,r-ind=1,1
    [4,3]((2,22,27),(4,43,54),(1,11,14),(7,75,95)); lvl=5; h,r-ind=1,1
      [3,3]((4,43,54),(7,75,95),(5,54,68)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,14),(7,75,95),(5,54,68)); lvl=6; h,r-ind=1,1
      [3,3]((2,22,27),(4,43,54),(5,54,68)); lvl=6; h,r-ind=1,1
      [3,3]((1,11,14),(2,22,27),(5,54,68)); lvl=6; h,r-ind=1,1
    [4,3]((3,32,40),(4,43,54),(7,75,95),(2,21,27)); lvl=5; h,r-ind=1,1
      [3,3]((4,43,54),(6,64,81),(7,75,95)); lvl=6; h,r-ind=1,1
      [3,3]((2,21,27),(6,64,81),(7,75,95)); lvl=6; h,r-ind=1,1
      [3,3]((3,32,40),(4,43,54),(6,64,81)); lvl=6; h,r-ind=1,1
      [3,3]((2,21,27),(3,32,40),(6,64,81)); lvl=6; h,r-ind=1,1
    [3,3]((3,32,40),(4,42,53),(2,21,27)); lvl=5; h,r-ind=1,1
    [3,3]((2,22,27),(3,32,40),(4,43,54)); lvl=5; h,r-ind=1,1
  [4,3]((1,12,15),(2,24,27),(2,22,27),(1,11,14)); lvl=4; h,r-ind=1,1
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          [3,3]((3,34,41),(2,22,27),(2,23,27)); lvl=5; h,r-ind=1,1
          [4,3]((1,12,14),(3,34,41),(5,57,69),(2,23,27)); lvl=5; h,r-ind=1,1
            [3,3]((5,57,69),(3,34,41),(4,46,55)); lvl=6; h,r-ind=1,1
            [3,3]((2,23,27),(3,34,41),(4,46,55)); lvl=6; h,r-ind=1,1
            [3,3]((1,12,14),(2,23,27),(4,46,55)); lvl=6; h,r-ind=1,1
            [3,3]((1,12,14),(5,57,69),(4,46,55)); lvl=6; h,r-ind=1,1
          [3,3]((1,12,14),(2,24,27),(2,23,27)); lvl=5; h,r-ind=1,1
          [4,3]((1,11,14),(3,34,41),(5,57,69),(2,22,27)); lvl=5; h,r-ind=1,1
            [3,3]((4,45,55),(5,57,69),(3,34,41)); lvl=6; h,r-ind=1,1
            [3,3]((2,22,27),(4,45,55),(3,34,41)); lvl=6; h,r-ind=1,1
            [3,3]((1,11,14),(2,22,27),(4,45,55)); lvl=6; h,r-ind=1,1
            [3,3]((1,11,14),(4,45,55),(5,57,69)); lvl=6; h,r-ind=1,1
          [4,3]((1,12,15),(1,12,14),(1,11,14),(5,57,69)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((2,23,28),(1,12,14),(5,57,69)); lvl=6; h,r-ind=1,1
            [3,3]((1,11,14),(2,23,28),(5,57,69)); lvl=6; h,r-ind=1,1
            [3,3]((1,12,15),(2,23,28),(1,12,14)); lvl=6; h,r-ind=1,1
            [3,3]((1,11,14),(1,12,15),(2,23,28)); lvl=6; h,r-ind=1,1
        [4,3]((2,22,27),(1,11,12),(4,42,53),(2,21,24)); lvl=4; h,r-ind=1,1
          [3,3]((1,11,13),(4,42,51),(2,21,26)); lvl=5; h,r-ind=1,1
          [3,3]((3,32,40),(1,11,13),(2,21,26)); lvl=5; h,r-ind=1,1
          [3,3]((3,32,40),(4,42,53),(2,21,26)); lvl=5; h,r-ind=1,1
          [3,3]((2,22,27),(3,32,40),(1,11,13)); lvl=5; h,r-ind=1,1
          [4,3]((1,11,13),(1,11,12),(2,21,24),(4,42,51)); lvl=5; h,r-ind=1,1
            [4,3]((2,21,25),(1,11,12),(2,21,24),(4,43,50)); lvl=6; h,r-ind=1,2; alert-r-inc
              [3,3]((2,21,24),(1,11,12),(3,32,37)); lvl=7; h,r-ind=1,1
              [3,3]((4,43,50),(1,11,12),(3,32,37)); lvl=7; h,r-ind=1,1
              [3,3]((2,21,25),(2,21,24),(3,32,37)); lvl=7; h,r-ind=1,1
              [3,3]((4,43,50),(2,21,25),(3,32,37)); lvl=7; h,r-ind=1,1
            [3,3]((1,11,13),(2,21,25),(4,43,50)); lvl=6; h,r-ind=1,1
            [3,3]((1,11,13),(2,21,25),(4,42,51)); lvl=6; h,r-ind=1,1
            [3,3]((1,11,13),(1,11,12),(4,43,50)); lvl=6; h,r-ind=1,1
        [4,3]((1,12,12),(2,24,27),(2,22,27),(1,11,12)); lvl=4; h,r-ind=3,1
          [3,3]((2,22,27),(1,11,13),(2,23,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,12,13),(1,11,13),(2,23,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,12,13),(2,24,27),(2,23,27)); lvl=5; h,r-ind=1,1
          [4,3]((1,12,12),(1,12,13),(1,11,12),(1,11,13)); lvl=5; h,r-ind=1,1
            [3,3]((1,11,12),(1,11,13),(2,23,25)); lvl=6; h,r-ind=1,1
            [3,3]((1,12,13),(1,11,13),(2,23,25)); lvl=6; h,r-ind=1,1
            [3,3]((1,12,12),(1,11,12),(2,23,25)); lvl=6; h,r-ind=1,1
            [3,3]((1,12,13),(1,12,12),(2,23,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,12,15),(5,54,72),(1,11,14)); lvl=4; h,r-ind=3,3; optimized-h
    [3,3]((1,6,12),(1,9,12),(1,9,15)); lvl=2; h,r-ind=9,3; optimized-h
  [3,3]((1,0,0),(1,12,12),(1,6,12)); lvl=1; h,r-ind=72,12; alert-h-inc
    [4,3]((1,3,6),(1,6,6),(1,6,9),(1,0,0)); lvl=2; h,r-ind=9,3
      [4,3]((4,15,21),(2,12,15),(1,3,3),(1,6,6)); lvl=3; h,r-ind=9,3
        [4,3]((2,9,11),(1,6,6),(2,9,9),(1,6,7)); lvl=4; h,r-ind=3,1
          [4,3]((1,6,7),(1,5,6),(1,5,5),(1,6,6)); lvl=5; h,r-ind=1,1
            [3,3]((1,5,6),(1,5,5),(2,11,12)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,6),(1,5,5),(2,11,12)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,7),(1,6,6),(2,11,12)); lvl=6; h,r-ind=1,1
            [3,3]((1,6,7),(1,5,6),(2,11,12)); lvl=6; h,r-ind=1,1
          [3,3]((1,5,6),(2,9,10),(1,5,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,9),(2,9,10),(1,5,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,11),(1,5,6),(2,9,10)); lvl=5; h,r-ind=1,1
        [4,3]((2,12,15),(4,19,25),(2,9,11),(1,6,7)); lvl=4; h,r-ind=1,1
          [3,3]((3,14,18),(2,9,11),(1,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((2,10,13),(3,14,18),(1,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,27),(2,10,13),(1,5,6)); lvl=5; h,r-ind=1,1
          [4,3]((4,21,27),(2,12,15),(1,6,7),(1,5,6)); lvl=5; h,r-ind=1,1
            [4,3]((2,11,14),(4,22,27),(2,12,15),(1,6,7)); lvl=6; h,r-ind=1,2; alert-r-inc
              [3,3]((3,17,21),(2,12,15),(1,6,7)); lvl=7; h,r-ind=1,1
              [3,3]((4,22,27),(3,17,21),(1,6,7)); lvl=7; h,r-ind=1,1
              [3,3]((2,11,14),(4,22,27),(3,17,21)); lvl=7; h,r-ind=1,1
              [3,3]((2,11,14),(3,17,21),(2,12,15)); lvl=7; h,r-ind=1,1
            [3,3]((1,5,6),(4,22,27),(1,6,7)); lvl=6; h,r-ind=1,1
            [3,3]((2,11,14),(1,5,6),(4,22,27)); lvl=6; h,r-ind=1,1
            [3,3]((4,21,27),(2,11,14),(1,5,6)); lvl=6; h,r-ind=1,1
          [3,3]((2,10,13),(3,14,18),(4,19,25)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,3),(2,9,11),(1,4,5),(2,9,9)); lvl=4; h,r-ind=1,1
          [3,3]((3,13,15),(2,9,10),(2,9,11)); lvl=5; h,r-ind=1,1
          [4,3]((1,4,5),(3,13,15),(5,21,24),(2,9,11)); lvl=5; h,r-ind=1,1
            [3,3]((4,17,20),(5,21,24),(3,13,15)); lvl=6; h,r-ind=1,1
            [3,3]((2,9,11),(4,17,20),(3,13,15)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,5),(2,9,11),(4,17,20)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,5),(4,17,20),(5,21,24)); lvl=6; h,r-ind=1,1
          [4,3]((1,4,4),(1,3,3),(1,4,5),(5,21,24)); lvl=5; h,r-ind=1,3; alert-r-inc
            [3,3]((1,3,3),(2,8,9),(1,4,5)); lvl=6; h,r-ind=1,1
            [3,3]((5,21,24),(2,8,9),(1,4,5)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,4),(5,21,24),(2,8,9)); lvl=6; h,r-ind=1,1
            [3,3]((1,4,4),(1,3,3),(2,8,9)); lvl=6; h,r-ind=1,1
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      [4,3]((1,4,4),(3,13,15),(5,21,24),(2,9,10)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,19),(5,21,24),(3,13,15)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,10),(4,17,19),(3,13,15)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,4),(2,9,10),(4,17,19)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,4),(4,17,19),(5,21,24)); lvl=6; h,r-ind=1,1
      [3,3]((2,9,9),(1,4,4),(2,9,10)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,3),(5,18,24),(1,4,5)); lvl=4; h,r-ind=3,3; optimized-h
    [4,3]((2,8,11),(4,19,25),(2,9,11),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,18,23),(2,9,11),(3,14,18)); lvl=5; h,r-ind=1,1
      [4,3]((2,9,12),(4,18,23),(7,31,40),(3,14,18)); lvl=5; h,r-ind=1,1
        [3,3]((6,27,35),(7,31,40),(4,18,23)); lvl=6; h,r-ind=1,1
        [3,3]((3,14,18),(6,27,35),(4,18,23)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,12),(3,14,18),(6,27,35)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,12),(6,27,35),(7,31,40)); lvl=6; h,r-ind=1,1
      [3,3]((2,9,12),(4,19,25),(3,14,18)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,5),(2,8,11),(2,9,12),(7,31,40)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((3,13,17),(2,8,11),(2,9,12)); lvl=6; h,r-ind=1,1
        [3,3]((7,31,40),(3,13,17),(2,9,12)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(7,31,40),(3,13,17)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(3,13,17),(2,8,11)); lvl=6; h,r-ind=1,1
      [4,3]((1,4,5),(4,18,23),(7,31,40),(2,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((5,22,28),(7,31,40),(4,18,23)); lvl=6; h,r-ind=1,1
        [3,3]((2,9,11),(5,22,28),(4,18,23)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(2,9,11),(5,22,28)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,5),(5,22,28),(7,31,40)); lvl=6; h,r-ind=1,1
    [4,3]((4,15,21),(5,18,24),(2,8,11),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,11),(1,4,5),(6,23,31)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,15),(1,4,5),(6,23,31)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,15),(5,18,24),(1,4,5)); lvl=5; h,r-ind=1,1
      [4,3]((4,15,21),(3,11,15),(2,8,11),(6,23,31)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,19,26),(6,23,31),(3,11,15)); lvl=6; h,r-ind=1,1
        [3,3]((4,15,21),(5,19,26),(3,11,15)); lvl=6; h,r-ind=1,1
        [3,3]((5,19,26),(2,8,11),(6,23,31)); lvl=6; h,r-ind=1,1
        [3,3]((4,15,21),(5,19,26),(2,8,11)); lvl=6; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,6),(4,15,21),(1,3,3)); lvl=3; h,r-ind=9,3
    [4,3]((2,7,10),(1,3,4),(2,5,7),(4,11,17)); lvl=4; h,r-ind=1,1
      [4,3]((4,11,16),(7,20,29),(1,3,4),(2,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((7,20,29),(1,3,4),(5,14,20)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,7),(1,3,4),(5,14,20)); lvl=6; h,r-ind=1,1
        [3,3]((4,11,16),(7,20,29),(5,14,20)); lvl=6; h,r-ind=1,1
        [3,3]((4,11,16),(2,5,7),(5,14,20)); lvl=6; h,r-ind=1,1
      [3,3]((3,8,12),(4,11,16),(2,5,7)); lvl=5; h,r-ind=1,1
      [4,3]((2,6,9),(3,8,12),(4,11,16),(7,20,29)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,16),(6,17,25),(3,8,12)); lvl=6; h,r-ind=1,1
        [3,3]((2,6,9),(6,17,25),(3,8,12)); lvl=6; h,r-ind=1,1
        [3,3]((7,20,29),(2,6,9),(6,17,25)); lvl=6; h,r-ind=1,1
        [3,3]((7,20,29),(4,11,16),(6,17,25)); lvl=6; h,r-ind=1,1
      [3,3]((2,6,9),(3,8,12),(4,11,17)); lvl=5; h,r-ind=1,1
      [4,3]((2,6,9),(2,7,10),(7,20,29),(1,3,4)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((3,9,13),(1,3,4),(2,7,10)); lvl=6; h,r-ind=1,1
        [3,3]((2,6,9),(3,9,13),(2,7,10)); lvl=6; h,r-ind=1,1
        [3,3]((7,20,29),(3,9,13),(1,3,4)); lvl=6; h,r-ind=1,1
        [3,3]((2,6,9),(7,20,29),(3,9,13)); lvl=6; h,r-ind=1,1
    [4,3]((1,1,2),(2,3,6),(2,5,7),(4,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,17),(2,5,8),(3,8,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,8),(3,8,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(3,8,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(4,9,15),(2,5,8)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,2),(1,2,3),(2,3,6),(4,9,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,7),(1,2,3),(4,9,15)); lvl=6; h,r-ind=1,1
        [3,3]((4,7,12),(2,4,7),(1,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,2),(4,7,12),(1,2,3)); lvl=6; h,r-ind=1,1
        [4,3]((1,1,2),(4,7,12),(2,3,6),(2,4,7)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,9),(4,7,12),(2,4,7)); lvl=7; h,r-ind=1,1
          [3,3]((2,3,6),(3,5,9),(2,4,7)); lvl=7; h,r-ind=1,1
          [3,3]((1,1,2),(2,3,6),(3,5,9)); lvl=7; h,r-ind=1,1
          [3,3]((1,1,2),(3,5,9),(4,7,12)); lvl=7; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(1,1,2),(2,5,7)); lvl=4; h,r-ind=3,1
      [3,3]((2,4,5),(2,5,7),(1,2,3)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,1),(2,4,5),(1,2,3)); lvl=5; h,r-ind=1,1
      [4,3]((1,0,0),(1,1,2),(1,1,1),(1,2,3)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,2),(1,2,3),(2,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,3),(2,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=6; h,r-ind=1,1
        [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=6; h,r-ind=1,1
      [3,3]((2,3,3),(1,1,1),(2,4,5)); lvl=5; h,r-ind=1,1
    [4,3]((4,15,21),(5,18,24),(2,7,10),(1,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(3,11,15),(5,18,24)); lvl=5; h,r-ind=1,1
      [3,3]((6,21,29),(1,3,4),(3,11,15)); lvl=5; h,r-ind=1,1
      [4,3]((4,15,21),(6,21,29),(2,7,10),(3,11,15)); lvl=5; h,r-ind=1,2; alert-r-inc
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        [3,3]((5,18,25),(2,7,10),(6,21,29)); lvl=6; h,r-ind=1,1
        [3,3]((3,11,15),(5,18,25),(6,21,29)); lvl=6; h,r-ind=1,1
        [3,3]((4,15,21),(5,18,25),(2,7,10)); lvl=6; h,r-ind=1,1
        [3,3]((3,11,15),(4,15,21),(5,18,25)); lvl=6; h,r-ind=1,1
      [3,3]((6,21,29),(2,7,10),(1,3,4)); lvl=5; h,r-ind=1,1
    [3,3]((1,3,3),(5,18,24),(1,3,4)); lvl=4; h,r-ind=3,3; optimized-h
    [4,3]((1,3,3),(2,3,3),(1,3,4),(2,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,9),(2,5,7),(2,4,5)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,2),(5,12,15),(3,7,9),(2,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,11),(5,12,15),(3,7,9)); lvl=6; h,r-ind=1,1
        [3,3]((2,4,5),(4,9,11),(3,7,9)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(4,9,11)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,2),(4,9,11),(5,12,15)); lvl=6; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(2,4,5)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,4),(5,12,15),(3,7,9),(2,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,13),(5,12,15),(3,7,9)); lvl=6; h,r-ind=1,1
        [3,3]((2,5,7),(4,10,13),(3,7,9)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,7),(4,10,13)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,4),(4,10,13),(5,12,15)); lvl=6; h,r-ind=1,1
      [4,3]((1,2,2),(1,3,3),(1,3,4),(5,12,15)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((2,5,6),(1,3,3),(1,3,4)); lvl=6; h,r-ind=1,1
        [3,3]((5,12,15),(2,5,6),(1,3,4)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,2),(5,12,15),(2,5,6)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,2),(2,5,6),(1,3,3)); lvl=6; h,r-ind=1,1
  [4,3]((4,15,21),(1,6,9),(2,9,15),(2,12,15)); lvl=3; h,r-ind=9,3
    [4,3]((3,14,20),(1,5,8),(1,6,8),(1,6,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,8),(1,5,7),(1,6,9),(3,16,24)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,7),(3,16,24),(2,11,16)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,9),(3,16,24),(2,11,16)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,8),(1,6,9),(2,11,16)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,8),(1,5,7),(2,11,16)); lvl=6; h,r-ind=1,1
      [3,3]((1,5,8),(1,6,9),(3,16,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(1,5,7),(3,16,24)); lvl=5; h,r-ind=1,1
      [3,3]((3,14,20),(1,5,8),(1,5,7)); lvl=5; h,r-ind=1,1
    [5,3]((5,23,32),(4,19,25),(2,12,15),(3,14,20),(1,6,8)); lvl=4; h,r-ind=1,1
      [4,3]((2,12,15),(4,21,27),(1,6,8),(1,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(2,11,14),(4,21,27)); lvl=6; h,r-ind=1,1
        [3,3]((4,22,29),(1,5,7),(2,11,14)); lvl=6; h,r-ind=1,1
        [4,3]((2,12,15),(4,22,29),(1,6,8),(2,11,14)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((3,17,22),(4,22,29),(1,6,8)); lvl=7; h,r-ind=1,1
          [3,3]((2,12,15),(3,17,22),(1,6,8)); lvl=7; h,r-ind=1,1
          [3,3]((2,11,14),(2,12,15),(3,17,22)); lvl=7; h,r-ind=1,1
          [3,3]((2,11,14),(3,17,22),(4,22,29)); lvl=7; h,r-ind=1,1
        [3,3]((4,22,29),(1,6,8),(1,5,7)); lvl=6; h,r-ind=1,1
      [3,3]((4,21,27),(2,10,13),(1,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((3,14,19),(2,10,13),(1,5,7)); lvl=5; h,r-ind=1,1
      [4,3]((5,23,32),(3,14,19),(3,14,20),(1,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,19),(1,5,7),(6,28,39)); lvl=6; h,r-ind=1,1
        [3,3]((3,14,20),(1,5,7),(6,28,39)); lvl=6; h,r-ind=1,1
        [3,3]((5,23,32),(3,14,20),(6,28,39)); lvl=6; h,r-ind=1,1
        [3,3]((5,23,32),(3,14,19),(6,28,39)); lvl=6; h,r-ind=1,1
      [3,3]((3,14,19),(4,19,25),(2,10,13)); lvl=5; h,r-ind=1,1
    [4,3]((1,4,6),(2,8,11),(5,23,32),(3,14,20)); lvl=4; h,r-ind=1,1
      [4,3]((3,14,20),(2,9,13),(5,23,32),(7,31,43)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,13),(4,18,25),(7,31,43)); lvl=6; h,r-ind=1,1
        [3,3]((9,41,58),(2,9,13),(4,18,25)); lvl=6; h,r-ind=1,1
        [4,3]((3,14,20),(9,41,58),(5,23,32),(4,18,25)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((7,32,45),(4,18,25),(9,41,58)); lvl=7; h,r-ind=1,1
          [3,3]((3,14,20),(7,32,45),(9,41,58)); lvl=7; h,r-ind=1,1
          [3,3]((7,32,45),(5,23,32),(4,18,25)); lvl=7; h,r-ind=1,1
          [3,3]((3,14,20),(7,32,45),(5,23,32)); lvl=7; h,r-ind=1,1
        [3,3]((3,14,20),(9,41,58),(2,9,13)); lvl=6; h,r-ind=1,1
      [4,3]((1,4,6),(2,9,13),(2,8,11),(7,31,43)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,18),(2,9,13),(7,31,43)); lvl=6; h,r-ind=1,1
        [3,3]((3,13,18),(6,26,37),(2,9,13)); lvl=6; h,r-ind=1,1
        [3,3]((1,4,6),(6,26,37),(2,9,13)); lvl=6; h,r-ind=1,1
        [4,3]((1,4,6),(3,13,18),(2,8,11),(6,26,37)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((3,13,18),(2,8,11),(4,17,24)); lvl=7; h,r-ind=1,1
          [3,3]((1,4,6),(2,8,11),(4,17,24)); lvl=7; h,r-ind=1,1
          [3,3]((6,26,37),(3,13,18),(4,17,24)); lvl=7; h,r-ind=1,1
          [3,3]((1,4,6),(6,26,37),(4,17,24)); lvl=7; h,r-ind=1,1
    [3,3]((1,4,6),(4,15,21),(2,8,11)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,11),(5,23,32),(4,19,25)); lvl=4; h,r-ind=9,3; optimized-h
    [3,3]((1,4,6),(3,14,20),(1,5,8)); lvl=4; h,r-ind=2,2; optimized-h
    [3,3]((1,4,6),(2,9,15),(1,5,8)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,6),(2,3,6),(4,15,21),(2,9,15)); lvl=3; h,r-ind=9,3
    [3,3]((2,7,10),(5,16,25),(4,11,17)); lvl=4; h,r-ind=9,3; optimized-h
    [5,3]((1,2,4),(3,10,16),(2,3,6),(5,16,25),(4,11,17)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,5),(3,10,16),(3,9,14),(5,16,25)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,16),(5,16,25),(6,19,30)); lvl=6; h,r-ind=1,1
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          [3,3]((3,9,14),(5,16,25),(6,19,30)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,5),(3,9,14),(6,19,30)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,5),(3,10,16),(6,19,30)); lvl=6; h,r-ind=1,1
        [3,3]((1,3,5),(2,5,8),(3,9,14)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,8),(4,11,17),(3,9,14)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(2,5,8),(4,9,15)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,4),(1,3,5),(2,3,6),(4,9,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,5),(2,4,7),(4,9,15)); lvl=6; h,r-ind=1,1
          [3,3]((4,9,16),(1,3,5),(2,4,7)); lvl=6; h,r-ind=1,1
          [4,3]((1,2,4),(4,9,16),(2,3,6),(2,4,7)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((3,6,11),(4,9,16),(2,4,7)); lvl=7; h,r-ind=1,1
            [3,3]((2,3,6),(3,6,11),(2,4,7)); lvl=7; h,r-ind=1,1
            [3,3]((1,2,4),(2,3,6),(3,6,11)); lvl=7; h,r-ind=1,1
            [3,3]((1,2,4),(3,6,11),(4,9,16)); lvl=7; h,r-ind=1,1
          [3,3]((1,2,4),(4,9,16),(1,3,5)); lvl=6; h,r-ind=1,1
      [4,3]((1,2,4),(1,3,6),(1,4,7),(3,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,4,7),(3,10,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(1,4,7),(3,10,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(3,10,16),(1,4,7)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,4),(1,3,5),(1,3,6),(3,10,18)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((1,3,5),(2,6,11),(3,10,18)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,6),(2,6,11),(3,10,18)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,4),(1,3,5),(2,6,11)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,6),(1,2,4),(2,6,11)); lvl=6; h,r-ind=1,1
      [4,3]((1,4,6),(3,10,16),(2,7,10),(5,16,25)); lvl=4; h,r-ind=1,1
        [4,3]((3,10,16),(2,7,11),(7,23,35),(5,16,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,11),(4,13,20),(7,23,35)); lvl=6; h,r-ind=1,1
          [3,3]((9,30,47),(2,7,11),(4,13,20)); lvl=6; h,r-ind=1,1
          [4,3]((3,10,16),(5,16,25),(9,30,47),(4,13,20)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((7,23,36),(4,13,20),(5,16,25)); lvl=7; h,r-ind=1,1
            [3,3]((3,10,16),(7,23,36),(5,16,25)); lvl=7; h,r-ind=1,1
            [3,3]((9,30,47),(7,23,36),(4,13,20)); lvl=7; h,r-ind=1,1
            [3,3]((3,10,16),(9,30,47),(7,23,36)); lvl=7; h,r-ind=1,1
          [3,3]((3,10,16),(9,30,47),(2,7,11)); lvl=6; h,r-ind=1,1
        [4,3]((2,7,10),(1,4,6),(2,7,11),(7,23,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(6,21,32),(2,7,11)); lvl=6; h,r-ind=1,1
          [3,3]((3,10,15),(6,21,32),(2,7,11)); lvl=6; h,r-ind=1,1
          [3,3]((3,10,15),(7,23,35),(2,7,11)); lvl=6; h,r-ind=1,1
          [4,3]((2,7,10),(3,10,15),(1,4,6),(6,21,32)); lvl=6; h,r-ind=1,2; alert-r-inc
            [3,3]((4,14,21),(3,10,15),(6,21,32)); lvl=7; h,r-ind=1,1
            [3,3]((4,14,21),(1,4,6),(6,21,32)); lvl=7; h,r-ind=1,1
            [3,3]((2,7,10),(4,14,21),(1,4,6)); lvl=7; h,r-ind=1,1
            [3,3]((2,7,10),(4,14,21),(3,10,15)); lvl=7; h,r-ind=1,1
      [3,3]((1,4,6),(4,15,21),(2,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(1,4,6),(3,10,16)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((2,9,15),(1,4,7),(1,4,6)); lvl=4; h,r-ind=1,1
[3,3]((1,6,12),(1,3,6),(1,6,9)); lvl=2; h,r-ind=9,3; optimized-h
[4,3]((1,12,12),(1,9,12),(1,6,6),(1,6,9)); lvl=2; h,r-ind=9,3
  [4,3]((4,33,39),(2,15,21),(2,12,15),(1,6,9)); lvl=3; h,r-ind=9,3
    [4,3]((3,22,28),(1,7,10),(1,6,8),(1,6,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,9),(3,20,28),(1,6,9),(1,6,8)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,13,18),(3,20,28),(1,6,9)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,8),(2,13,18),(1,6,9)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,9),(1,6,8),(2,13,18)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,9),(2,13,18),(3,20,28)); lvl=6; h,r-ind=1,1
      [3,3]((1,7,10),(1,7,9),(3,20,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,10),(3,22,28),(1,7,9)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,10),(3,20,28),(1,6,9)); lvl=5; h,r-ind=1,1
    [5,3]((4,29,35),(5,37,46),(3,22,28),(2,12,15),(1,6,8)); lvl=4; h,r-ind=1,1
      [4,3]((5,37,46),(3,22,27),(1,7,9),(3,22,28)); lvl=5; h,r-ind=1,1
        [3,3]((6,44,55),(1,7,9),(3,22,27)); lvl=6; h,r-ind=1,1
        [3,3]((5,37,46),(6,44,55),(3,22,27)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,28),(5,37,46),(6,44,55)); lvl=6; h,r-ind=1,1
        [3,3]((3,22,28),(6,44,55),(1,7,9)); lvl=6; h,r-ind=1,1
      [3,3]((2,14,17),(3,22,27),(1,7,9)); lvl=5; h,r-ind=1,1
      [3,3]((2,14,17),(4,27,33),(1,7,9)); lvl=5; h,r-ind=1,1
      [4,3]((2,12,15),(4,27,33),(1,7,9),(1,6,8)); lvl=5; h,r-ind=1,1
        [3,3]((2,13,16),(4,27,33),(1,7,9)); lvl=6; h,r-ind=1,1
        [3,3]((2,13,16),(4,26,33),(1,7,9)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,8),(4,26,33),(1,7,9)); lvl=6; h,r-ind=1,1
        [4,3]((2,13,16),(2,12,15),(1,6,8),(4,26,33)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,8),(3,19,24),(2,12,15)); lvl=7; h,r-ind=1,1
          [3,3]((2,13,16),(3,19,24),(2,12,15)); lvl=7; h,r-ind=1,1
          [3,3]((4,26,33),(1,6,8),(3,19,24)); lvl=7; h,r-ind=1,1
          [3,3]((2,13,16),(4,26,33),(3,19,24)); lvl=7; h,r-ind=1,1
      [3,3]((2,14,17),(4,29,35),(3,22,27)); lvl=5; h,r-ind=1,1
    [3,3]((2,16,19),(4,29,35),(5,37,46)); lvl=4; h,r-ind=9,3; optimized-h
    [4,3]((1,8,10),(2,16,19),(5,37,46),(3,22,28)); lvl=4; h,r-ind=1,1
      [4,3]((2,15,19),(3,22,28),(5,37,46),(7,53,65)); lvl=5; h,r-ind=1,1
        [4,3]((4,30,37),(9,67,84),(3,22,28),(5,37,46)); lvl=6; h,r-ind=1,2; alert-r-inc
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          [3,3]((7,52,65),(3,22,28),(9,67,84)); lvl=7; h,r-ind=1,1
          [3,3]((4,30,37),(7,52,65),(9,67,84)); lvl=7; h,r-ind=1,1
          [3,3]((7,52,65),(5,37,46),(3,22,28)); lvl=7; h,r-ind=1,1
          [3,3]((4,30,37),(7,52,65),(5,37,46)); lvl=7; h,r-ind=1,1
        [3,3]((2,15,19),(4,30,37),(9,67,84)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,19),(7,53,65),(4,30,37)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,19),(9,67,84),(3,22,28)); lvl=6; h,r-ind=1,1
      [4,3]((1,8,10),(2,15,19),(2,16,19),(7,53,65)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,19),(3,23,28),(6,46,57)); lvl=6; h,r-ind=1,1
        [4,3]((1,8,10),(2,16,19),(3,23,28),(6,46,57)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((4,31,38),(3,23,28),(2,16,19)); lvl=7; h,r-ind=1,1
          [3,3]((1,8,10),(4,31,38),(2,16,19)); lvl=7; h,r-ind=1,1
          [3,3]((4,31,38),(6,46,57),(3,23,28)); lvl=7; h,r-ind=1,1
          [3,3]((1,8,10),(4,31,38),(6,46,57)); lvl=7; h,r-ind=1,1
        [3,3]((1,8,10),(2,15,19),(6,46,57)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,19),(7,53,65),(3,23,28)); lvl=6; h,r-ind=1,1
    [3,3]((1,8,10),(4,33,39),(2,16,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,10),(3,22,28),(1,7,10)); lvl=4; h,r-ind=2,2; optimized-h
    [3,3]((1,8,10),(2,15,21),(1,7,10)); lvl=4; h,r-ind=1,1
  [4,3]((1,9,9),(4,33,39),(1,6,6),(2,12,15)); lvl=3; h,r-ind=9,3
    [4,3]((2,15,17),(4,29,35),(1,6,7),(2,12,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(2,14,17),(4,27,33)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,8),(1,6,7),(2,12,15),(4,27,33)); lvl=5; h,r-ind=1,1
        [4,3]((2,13,16),(1,6,7),(2,12,15),(4,26,31)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((3,19,23),(1,6,7),(2,12,15)); lvl=7; h,r-ind=1,1
          [3,3]((2,13,16),(3,19,23),(2,12,15)); lvl=7; h,r-ind=1,1
          [3,3]((4,26,31),(3,19,23),(1,6,7)); lvl=7; h,r-ind=1,1
          [3,3]((2,13,16),(4,26,31),(3,19,23)); lvl=7; h,r-ind=1,1
        [3,3]((1,7,8),(2,13,16),(4,26,31)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,8),(2,13,16),(4,27,33)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,8),(1,6,7),(4,26,31)); lvl=6; h,r-ind=1,1
      [3,3]((3,22,26),(1,7,8),(2,14,17)); lvl=5; h,r-ind=1,1
      [3,3]((4,29,35),(3,22,26),(2,14,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,15,17),(3,22,26),(1,7,8)); lvl=5; h,r-ind=1,1
    [4,3]((1,6,6),(2,15,15),(2,15,17),(1,6,7)); lvl=4; h,r-ind=3,1
      [3,3]((1,7,8),(2,15,17),(2,15,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,7),(1,7,8),(2,15,16)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,7),(2,15,15),(2,15,16)); lvl=5; h,r-ind=1,1
      [4,3]((1,7,7),(1,6,6),(1,6,7),(1,7,8)); lvl=5; h,r-ind=1,1
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        [3,3]((1,7,8),(1,6,7),(2,13,14)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,7),(1,6,6),(2,13,14)); lvl=6; h,r-ind=1,1
        [3,3]((1,7,8),(1,7,7),(2,13,14)); lvl=6; h,r-ind=1,1
    [4,3]((1,9,9),(1,8,9),(2,15,15),(2,15,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,25),(2,15,17),(2,15,16)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,8),(5,39,42),(3,23,25),(2,15,16)); lvl=5; h,r-ind=1,1
        [3,3]((4,31,33),(3,23,25),(5,39,42)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,8),(4,31,33),(5,39,42)); lvl=6; h,r-ind=1,1
        [3,3]((4,31,33),(2,15,16),(3,23,25)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,8),(4,31,33),(2,15,16)); lvl=6; h,r-ind=1,1
      [3,3]((1,8,8),(2,15,15),(2,15,16)); lvl=5; h,r-ind=1,1
      [4,3]((5,39,42),(1,8,9),(3,23,25),(2,15,17)); lvl=5; h,r-ind=1,1
        [3,3]((4,31,34),(1,8,9),(2,15,17)); lvl=6; h,r-ind=1,1
        [3,3]((4,31,34),(3,23,25),(2,15,17)); lvl=6; h,r-ind=1,1
        [3,3]((5,39,42),(4,31,34),(3,23,25)); lvl=6; h,r-ind=1,1
        [3,3]((5,39,42),(4,31,34),(1,8,9)); lvl=6; h,r-ind=1,1
      [4,3]((1,9,9),(1,8,8),(5,39,42),(1,8,9)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((1,8,8),(5,39,42),(2,16,17)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,9),(5,39,42),(2,16,17)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,9),(1,8,8),(2,16,17)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,9),(1,9,9),(2,16,17)); lvl=6; h,r-ind=1,1
    [4,3]((1,8,9),(2,16,19),(2,15,17),(4,29,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,18),(3,22,26),(4,29,35)); lvl=5; h,r-ind=1,1
      [4,3]((7,53,62),(4,30,35),(2,15,18),(3,22,26)); lvl=5; h,r-ind=1,1
        [3,3]((6,45,53),(3,22,26),(4,30,35)); lvl=6; h,r-ind=1,1
        [3,3]((7,53,62),(6,45,53),(4,30,35)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,18),(7,53,62),(6,45,53)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,18),(6,45,53),(3,22,26)); lvl=6; h,r-ind=1,1
      [3,3]((2,15,17),(4,30,35),(3,22,26)); lvl=5; h,r-ind=1,1
      [4,3]((1,8,9),(7,53,62),(2,15,18),(2,16,19)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((7,53,62),(3,23,27),(2,15,18)); lvl=6; h,r-ind=1,1
        [3,3]((2,16,19),(3,23,27),(2,15,18)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,9),(2,16,19),(3,23,27)); lvl=6; h,r-ind=1,1
        [3,3]((1,8,9),(7,53,62),(3,23,27)); lvl=6; h,r-ind=1,1
      [4,3]((2,15,17),(1,8,9),(7,53,62),(4,30,35)); lvl=5; h,r-ind=1,1
        [3,3]((5,38,44),(7,53,62),(1,8,9)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,17),(5,38,44),(1,8,9)); lvl=6; h,r-ind=1,1
        [3,3]((5,38,44),(4,30,35),(7,53,62)); lvl=6; h,r-ind=1,1
        [3,3]((2,15,17),(5,38,44),(4,30,35)); lvl=6; h,r-ind=1,1
    [4,3]((5,42,48),(1,8,9),(4,33,39),(2,16,19)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,8,9),(2,16,19),(6,49,57)); lvl=5; h,r-ind=1,1
      [4,3]((4,33,39),(3,25,29),(2,16,19),(6,49,57)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,25,29),(5,41,48),(6,49,57)); lvl=6; h,r-ind=1,1
        [3,3]((2,16,19),(5,41,48),(6,49,57)); lvl=6; h,r-ind=1,1
        [3,3]((4,33,39),(2,16,19),(5,41,48)); lvl=6; h,r-ind=1,1
        [3,3]((4,33,39),(3,25,29),(5,41,48)); lvl=6; h,r-ind=1,1
      [3,3]((3,25,29),(1,8,9),(6,49,57)); lvl=5; h,r-ind=1,1
      [3,3]((5,42,48),(3,25,29),(1,8,9)); lvl=5; h,r-ind=1,1
    [3,3]((1,9,9),(5,42,48),(1,8,9)); lvl=4; h,r-ind=3,3; optimized-h
  [4,3]((1,12,12),(2,21,24),(1,9,9),(4,33,39)); lvl=3; h,r-ind=9,3
    [4,3]((2,19,21),(2,17,20),(4,37,43),(1,9,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,10),(2,18,21),(7,64,73),(2,17,20)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((3,27,31),(7,64,73),(2,18,21)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,20),(3,27,31),(2,18,21)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,10),(2,17,20),(3,27,31)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,10),(3,27,31),(7,64,73)); lvl=6; h,r-ind=1,1
      [4,3]((3,28,32),(2,18,21),(4,37,42),(7,64,73)); lvl=5; h,r-ind=1,1
        [3,3]((2,18,21),(7,64,73),(6,55,63)); lvl=6; h,r-ind=1,1
        [3,3]((4,37,42),(7,64,73),(6,55,63)); lvl=6; h,r-ind=1,1
        [3,3]((3,28,32),(4,37,42),(6,55,63)); lvl=6; h,r-ind=1,1
        [3,3]((3,28,32),(2,18,21),(6,55,63)); lvl=6; h,r-ind=1,1
      [4,3]((1,9,10),(2,19,21),(4,37,42),(7,64,73)); lvl=5; h,r-ind=1,1
        [3,3]((2,19,21),(5,46,52),(4,37,42)); lvl=6; h,r-ind=1,1
        [3,3]((7,64,73),(5,46,52),(4,37,42)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,10),(7,64,73),(5,46,52)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,10),(2,19,21),(5,46,52)); lvl=6; h,r-ind=1,1
      [3,3]((4,37,43),(3,28,32),(2,18,21)); lvl=5; h,r-ind=1,1
      [3,3]((2,19,21),(3,28,32),(4,37,42)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,9),(2,21,21),(2,19,21),(1,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,29,31),(2,20,21),(2,19,21)); lvl=5; h,r-ind=1,1
      [4,3]((1,9,10),(3,29,31),(5,48,51),(2,19,21)); lvl=5; h,r-ind=1,1
        [3,3]((4,38,41),(3,29,31),(5,48,51)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,10),(4,38,41),(5,48,51)); lvl=6; h,r-ind=1,1
        [3,3]((4,38,41),(2,19,21),(3,29,31)); lvl=6; h,r-ind=1,1
        [3,3]((1,9,10),(4,38,41),(2,19,21)); lvl=6; h,r-ind=1,1
      [4,3]((1,10,10),(1,9,9),(1,9,10),(5,48,51)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((1,9,10),(1,9,9),(2,19,20)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,10),(1,9,9),(2,19,20)); lvl=6; h,r-ind=1,1
        [3,3]((5,48,51),(1,9,10),(2,19,20)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,10),(5,48,51),(2,19,20)); lvl=6; h,r-ind=1,1
      [4,3]((1,10,10),(3,29,31),(5,48,51),(2,20,21)); lvl=5; h,r-ind=1,1
        [3,3]((4,39,41),(3,29,31),(5,48,51)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,10),(4,39,41),(5,48,51)); lvl=6; h,r-ind=1,1
        [3,3]((4,39,41),(2,20,21),(3,29,31)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,10),(4,39,41),(2,20,21)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,10),(2,21,21),(2,20,21)); lvl=5; h,r-ind=1,1
    [4,3]((2,19,21),(1,11,12),(2,21,24),(4,37,43)); lvl=4; h,r-ind=1,1
      [4,3]((1,10,11),(4,39,45),(1,11,12),(2,21,24)); lvl=5; h,r-ind=1,1
        [4,3]((1,11,12),(4,41,46),(2,20,23),(2,21,24)); lvl=6; h,r-ind=1,2; alert-r-inc
          [3,3]((3,31,35),(4,41,46),(2,20,23)); lvl=7; h,r-ind=1,1
          [3,3]((2,21,24),(3,31,35),(2,20,23)); lvl=7; h,r-ind=1,1
          [3,3]((1,11,12),(2,21,24),(3,31,35)); lvl=7; h,r-ind=1,1
          [3,3]((1,11,12),(3,31,35),(4,41,46)); lvl=7; h,r-ind=1,1
        [3,3]((1,10,11),(1,11,12),(4,41,46)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,11),(4,41,46),(2,20,23)); lvl=6; h,r-ind=1,1
        [3,3]((1,10,11),(4,39,45),(2,20,23)); lvl=6; h,r-ind=1,1
      [3,3]((1,10,11),(2,19,22),(4,39,45)); lvl=5; h,r-ind=1,1
      [3,3]((3,28,32),(1,10,11),(2,19,22)); lvl=5; h,r-ind=1,1
      [3,3]((3,28,32),(4,37,43),(2,19,22)); lvl=5; h,r-ind=1,1
      [3,3]((3,28,32),(2,19,21),(1,10,11)); lvl=5; h,r-ind=1,1
    [4,3]((1,12,12),(2,21,21),(2,19,21),(1,11,12)); lvl=4; h,r-ind=3,1
      [3,3]((2,19,21),(1,10,11),(2,20,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,11,11),(1,10,11),(2,20,21)); lvl=5; h,r-ind=1,1
      [3,3]((2,21,21),(1,11,11),(2,20,21)); lvl=5; h,r-ind=1,1
      [4,3]((1,12,12),(1,11,12),(1,11,11),(1,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,11,12),(1,10,11),(2,22,23)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,11),(1,10,11),(2,22,23)); lvl=6; h,r-ind=1,1
        [3,3]((1,12,12),(1,11,12),(2,22,23)); lvl=6; h,r-ind=1,1
        [3,3]((1,11,11),(1,12,12),(2,22,23)); lvl=6; h,r-ind=1,1
    [4,3]((4,33,39),(5,42,48),(2,17,20),(1,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,25,29),(1,9,10),(5,42,48)); lvl=5; h,r-ind=1,1
      [3,3]((3,25,29),(6,51,59),(1,9,10)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,20),(6,51,59),(1,9,10)); lvl=5; h,r-ind=1,1
      [4,3]((3,25,29),(4,33,39),(2,17,20),(6,51,59)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((2,17,20),(5,42,49),(4,33,39)); lvl=6; h,r-ind=1,1
        [3,3]((3,25,29),(5,42,49),(4,33,39)); lvl=6; h,r-ind=1,1
        [3,3]((6,51,59),(2,17,20),(5,42,49)); lvl=6; h,r-ind=1,1
        [3,3]((3,25,29),(6,51,59),(5,42,49)); lvl=6; h,r-ind=1,1
    [3,3]((1,9,9),(5,42,48),(1,9,10)); lvl=4; h,r-ind=3,3; optimized-h
  [4,3]((2,21,24),(4,33,39),(1,9,12),(2,15,21)); lvl=3; h,r-ind=9,3
```

```
        [3,3]((1,8,11),(1,8,10),(2,15,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,11),(3,26,32),(1,8,10)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((2,17,20),(5,44,53),(3,26,32),(1,8,10)); lvl=4; h,r-ind=1,1
          [4,3]((7,61,73),(5,44,53),(3,26,32),(2,17,21)); lvl=5; h,r-ind=1,1
            [4,3]((5,44,53),(4,35,42),(3,26,32),(9,78,95)); lvl=6; h,r-ind=1,2; alert-r-inc
              [3,3]((3,26,32),(7,61,74),(9,78,95)); lvl=7; h,r-ind=1,1
              [3,3]((4,35,42),(7,61,74),(9,78,95)); lvl=7; h,r-ind=1,1
              [3,3]((5,44,53),(4,35,42),(7,61,74)); lvl=7; h,r-ind=1,1
              [3,3]((5,44,53),(3,26,32),(7,61,74)); lvl=7; h,r-ind=1,1
            [3,3]((2,17,21),(3,26,32),(9,78,95)); lvl=6; h,r-ind=1,1
            [3,3]((2,17,21),(4,35,42),(9,78,95)); lvl=6; h,r-ind=1,1
            [3,3]((2,17,21),(7,61,73),(4,35,42)); lvl=6; h,r-ind=1,1
          [4,3]((1,8,10),(2,17,20),(7,61,73),(2,17,21)); lvl=5; h,r-ind=1,1
            [3,3]((2,17,21),(3,26,31),(7,61,73)); lvl=6; h,r-ind=1,1
            [3,3]((6,51,62),(2,17,21),(3,26,31)); lvl=6; h,r-ind=1,1
            [4,3]((1,8,10),(6,51,62),(2,17,20),(3,26,31)); lvl=6; h,r-ind=1,2; alert-r-inc
              [3,3]((6,51,62),(4,34,41),(3,26,31)); lvl=7; h,r-ind=1,1
              [3,3]((2,17,20),(4,34,41),(3,26,31)); lvl=7; h,r-ind=1,1
              [3,3]((1,8,10),(2,17,20),(4,34,41)); lvl=7; h,r-ind=1,1
              [3,3]((1,8,10),(6,51,62),(4,34,41)); lvl=7; h,r-ind=1,1
            [3,3]((1,8,10),(6,51,62),(2,17,21)); lvl=6; h,r-ind=1,1
        [3,3]((2,17,20),(4,33,39),(1,8,10)); lvl=4; h,r-ind=1,1
        [5,3]((2,21,24),(1,10,12),(5,44,53),(4,37,43),(3,26,32)); lvl=4; h,r-ind=1,1
          [4,3]((2,21,24),(4,39,45),(1,9,11),(1,10,12)); lvl=5; h,r-ind=1,1
            [3,3]((1,9,11),(2,20,23),(4,39,46)); lvl=6; h,r-ind=1,1
            [4,3]((1,10,12),(2,21,24),(2,20,23),(4,39,46)); lvl=6; h,r-ind=1,2; alert-r-inc
              [3,3]((3,30,35),(2,21,24),(2,20,23)); lvl=7; h,r-ind=1,1
              [3,3]((4,39,46),(3,30,35),(2,20,23)); lvl=7; h,r-ind=1,1
              [3,3]((1,10,12),(4,39,46),(3,30,35)); lvl=7; h,r-ind=1,1
              [3,3]((1,10,12),(3,30,35),(2,21,24)); lvl=7; h,r-ind=1,1
            [3,3]((1,10,12),(1,9,11),(4,39,46)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,11),(4,39,45),(2,20,23)); lvl=6; h,r-ind=1,1
          [3,3]((2,19,22),(4,39,45),(1,9,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,19,22),(3,27,32),(1,9,11)); lvl=5; h,r-ind=1,1
          [4,3]((3,27,32),(5,44,53),(1,9,11),(3,26,32)); lvl=5; h,r-ind=1,1
            [3,3]((5,44,53),(3,26,32),(6,53,64)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,11),(3,26,32),(6,53,64)); lvl=6; h,r-ind=1,1
            [3,3]((3,27,32),(1,9,11),(6,53,64)); lvl=6; h,r-ind=1,1
            [3,3]((3,27,32),(5,44,53),(6,53,64)); lvl=6; h,r-ind=1,1
          [3,3]((4,37,43),(2,19,22),(3,27,32)); lvl=5; h,r-ind=1,1
        [3,3]((2,17,20),(5,44,53),(4,37,43)); lvl=4; h,r-ind=9,3; optimized-h
        [4,3]((1,8,11),(1,9,12),(1,10,12),(3,26,32)); lvl=4; h,r-ind=1,1
          [4,3]((1,9,11),(3,26,34),(1,9,12),(1,10,12)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((2,18,23),(3,26,34),(1,9,12)); lvl=6; h,r-ind=1,1
            [3,3]((1,10,12),(2,18,23),(1,9,12)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,11),(1,10,12),(2,18,23)); lvl=6; h,r-ind=1,1
            [3,3]((1,9,11),(2,18,23),(3,26,34)); lvl=6; h,r-ind=1,1
          [3,3]((1,8,11),(1,9,11),(3,26,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,11),(3,26,32),(1,9,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,11),(3,26,34),(1,9,12)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,12),(1,9,12),(1,6,9)); lvl=2; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,12,24),(1,12,12)); lvl=1; h,r-ind=12,12; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,12,12)); lvl=1; h,r-ind=12,12; optimized-h
```

24.21 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,3,24)); lvl=0; h,r-ind=24,96
  [4,3]((1,0,0),(1,1,8),(2,3,12),(2,3,21)); lvl=1; h,r-ind=3,3
    [4,3]((1,1,7),(4,6,33),(1,1,6),(2,3,21)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,6),(4,6,33),(2,3,17)); lvl=3; h,r-ind=1,1
      [4,3]((7,8,51),(4,6,37),(1,1,6),(2,3,17)); lvl=3; h,r-ind=1,1
        [4,3]((1,1,6),(7,9,55),(2,3,18),(2,3,17)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((7,9,55),(3,4,24),(2,3,18)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,17),(3,4,24),(2,3,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(2,3,17),(3,4,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(7,9,55),(3,4,24)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,31),(1,1,6),(7,9,55)); lvl=4; h,r-ind=1,1
        [4,3]((7,8,51),(8,10,63),(4,5,31),(1,1,6)); lvl=4; h,r-ind=1,1
          [4,3]((5,6,38),(10,12,75),(4,5,31),(8,10,63)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((9,11,69),(4,5,31),(10,12,75)); lvl=6; h,r-ind=1,1
            [3,3]((5,6,38),(9,11,69),(10,12,75)); lvl=6; h,r-ind=1,1
            [3,3]((9,11,69),(8,10,63),(4,5,31)); lvl=6; h,r-ind=1,1
            [3,3]((5,6,38),(9,11,69),(8,10,63)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,6),(5,6,38),(10,12,75)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(5,6,38),(7,8,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(10,12,75),(4,5,31)); lvl=5; h,r-ind=1,1
        [4,3]((3,4,25),(4,5,31),(7,9,55),(2,3,18)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((4,5,31),(7,9,55),(6,8,49)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,18),(7,9,55),(6,8,49)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,25),(4,5,31),(6,8,49)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,18),(3,4,25),(6,8,49)); lvl=5; h,r-ind=1,1
    [3,3]((3,4,25),(4,6,37),(2,3,18)); lvl=4; h,r-ind=1,1
    [3,3]((8,10,63),(3,4,25),(4,5,31)); lvl=4; h,r-ind=1,1
  [3,3]((1,1,7),(7,8,51),(1,1,6)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,7),(7,8,51),(2,3,21),(4,6,37)); lvl=3; h,r-ind=5,5; alert-h-inc; alert-r-inc
    [3,3]((3,4,26),(2,3,19),(4,6,39)); lvl=4; h,r-ind=1,1
    [5,3]((1,1,7),(3,4,26),(9,11,72),(2,3,21),(4,6,39)); lvl=4; h,r-ind=1,1
      [5,3]((10,13,86),(7,9,60),(2,3,20),(5,7,46),(9,12,79)); lvl=5; h,r-ind=1,1
        [3,3]((6,8,53),(2,3,20),(7,9,60)); lvl=6; h,r-ind=1,1
        [3,3]((10,13,86),(6,8,53),(7,9,60)); lvl=6; h,r-ind=1,1
        [3,3]((10,13,86),(6,8,53),(9,12,79)); lvl=6; h,r-ind=1,1
        [3,3]((6,8,53),(2,3,20),(5,7,46)); lvl=6; h,r-ind=1,1
        [3,3]((6,8,53),(9,12,79),(5,7,46)); lvl=6; h,r-ind=1,1
      [4,3]((3,4,26),(4,6,39),(5,7,46),(9,12,79)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,39),(8,11,72),(5,7,46)); lvl=6; h,r-ind=1,1
        [3,3]((9,12,79),(8,11,72),(5,7,46)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,26),(4,6,39),(8,11,72)); lvl=6; h,r-ind=1,1
        [3,3]((9,12,79),(3,4,26),(8,11,72)); lvl=6; h,r-ind=1,1
      [4,3]((4,5,33),(10,13,86),(3,4,26),(9,12,79)); lvl=5; h,r-ind=1,1
        [3,3]((13,17,112),(9,12,79),(3,4,26)); lvl=6; h,r-ind=1,1
        [3,3]((4,5,33),(13,17,112),(3,4,26)); lvl=6; h,r-ind=1,1
        [3,3]((10,13,86),(13,17,112),(9,12,79)); lvl=6; h,r-ind=1,1
        [3,3]((4,5,33),(10,13,86),(13,17,112)); lvl=6; h,r-ind=1,1
      [3,3]((4,5,33),(9,11,72),(3,4,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,7),(4,5,33),(9,11,72)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,7),(4,5,33),(10,13,86),(7,9,60)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,33),(10,13,86),(11,14,93)); lvl=6; h,r-ind=1,1
        [3,3]((7,9,60),(10,13,86),(11,14,93)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,7),(4,5,33),(11,14,93)); lvl=6; h,r-ind=1,1
        [3,3]((7,9,60),(1,1,7),(11,14,93)); lvl=6; h,r-ind=1,1
      [4,3]((1,1,7),(7,9,60),(2,3,21),(2,3,20)); lvl=5; h,r-ind=1,3; alert-r-inc
        [3,3]((2,3,20),(3,4,27),(2,3,21)); lvl=6; h,r-ind=1,1
        [3,3]((1,1,7),(3,4,27),(2,3,21)); lvl=6; h,r-ind=1,1
        [3,3]((7,9,60),(1,1,7),(3,4,27)); lvl=6; h,r-ind=1,1
        [3,3]((7,9,60),(2,3,20),(3,4,27)); lvl=6; h,r-ind=1,1
      [3,3]((4,6,39),(2,3,20),(5,7,46)); lvl=5; h,r-ind=1,1
    [5,3]((3,4,25),(4,5,32),(3,4,26),(9,11,72),(2,3,19)); lvl=4; h,r-ind=1,1
      [4,3]((8,10,65),(14,18,115),(7,9,58),(4,5,32)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((7,9,58),(14,18,115),(11,14,90)); lvl=6; h,r-ind=1,1
        [3,3]((4,5,32),(14,18,115),(11,14,90)); lvl=6; h,r-ind=1,1
        [3,3]((8,10,65),(7,9,58),(11,14,90)); lvl=6; h,r-ind=1,1
        [3,3]((4,5,32),(8,10,65),(11,14,90)); lvl=6; h,r-ind=1,1
      [3,3]((8,10,65),(9,11,72),(4,5,32)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,25),(14,18,115),(4,5,32)); lvl=5; h,r-ind=1,1
      [4,3]((8,10,65),(7,9,58),(12,16,103),(3,4,26)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((7,9,58),(10,13,84),(12,16,103)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,26),(10,13,84),(12,16,103)); lvl=6; h,r-ind=1,1
        [3,3]((8,10,65),(3,4,26),(10,13,84)); lvl=6; h,r-ind=1,1
        [3,3]((8,10,65),(7,9,58),(10,13,84)); lvl=6; h,r-ind=1,1
      [3,3]((8,10,65),(9,11,72),(3,4,26)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,19),(12,16,103),(3,4,26)); lvl=5; h,r-ind=1,1
      [5,3]((3,4,25),(14,18,115),(7,9,58),(2,3,19),(12,16,103)); lvl=5; h,r-ind=1,1
        [3,3]((7,9,58),(12,16,103),(9,12,77)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,19),(12,16,103),(9,12,77)); lvl=6; h,r-ind=1,1
        [3,3]((15,20,128),(2,3,19),(9,12,77)); lvl=6; h,r-ind=1,1
        [3,3]((6,8,51),(15,20,128),(2,3,19)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,25),(6,8,51),(2,3,19)); lvl=6; h,r-ind=1,1
        [4,3]((15,20,128),(13,17,109),(7,9,58),(9,12,77)); lvl=6; h,r-ind=1,1
          [3,3]((22,29,186),(7,9,58),(13,17,109)); lvl=7; h,r-ind=1,1
          [3,3]((15,20,128),(22,29,186),(13,17,109)); lvl=7; h,r-ind=1,1
          [3,3]((9,12,77),(22,29,186),(7,9,58)); lvl=7; h,r-ind=1,1
          [3,3]((15,20,128),(9,12,77),(22,29,186)); lvl=7; h,r-ind=1,1
        [4,3]((6,8,51),(16,21,134),(15,20,128),(13,17,109)); lvl=6; h,r-ind=1,1
          [3,3]((13,17,109),(16,21,134),(19,25,160)); lvl=7; h,r-ind=1,1
          [3,3]((6,8,51),(16,21,134),(19,25,160)); lvl=7; h,r-ind=1,1
          [3,3]((15,20,128),(6,8,51),(19,25,160)); lvl=7; h,r-ind=1,1
          [3,3]((15,20,128),(13,17,109),(19,25,160)); lvl=7; h,r-ind=1,1
        [3,3]((3,4,25),(16,21,134),(10,13,83)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,25),(6,8,51),(16,21,134)); lvl=6; h,r-ind=1,1
        [4,3]((16,21,134),(13,17,109),(10,13,83),(7,9,58)); lvl=6; h,r-ind=1,1
          [3,3]((13,17,109),(7,9,58),(23,30,192)); lvl=7; h,r-ind=1,1
          [3,3]((10,13,83),(7,9,58),(23,30,192)); lvl=7; h,r-ind=1,1
          [3,3]((16,21,134),(13,17,109),(23,30,192)); lvl=7; h,r-ind=1,1
          [3,3]((10,13,83),(16,21,134),(23,30,192)); lvl=7; h,r-ind=1,1
        [3,3]((14,18,115),(10,13,83),(7,9,58)); lvl=6; h,r-ind=1,1
        [3,3]((3,4,25),(14,18,115),(10,13,83)); lvl=6; h,r-ind=1,1
    [3,3]((3,4,25),(2,3,19),(4,6,37)); lvl=4; h,r-ind=1,1
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      [3,3]((3,4,25),(8,10,63),(4,5,32)); lvl=4; h,r-ind=1,1
      [5,3]((1,1,7),(7,8,51),(8,10,63),(4,5,32),(9,11,72)); lvl=4; h,r-ind=1,1
        [5,3]((5,6,38),(9,11,70),(14,17,109),(11,13,84),(15,18,116)); lvl=5; h,r-ind=1,1
          [3,3]((10,12,77),(14,17,109),(15,18,116)); lvl=6; h,r-ind=1,1
          [3,3]((10,12,77),(11,13,84),(15,18,116)); lvl=6; h,r-ind=1,1
          [3,3]((5,6,38),(10,12,77),(11,13,84)); lvl=6; h,r-ind=1,1
          [3,3]((9,11,70),(10,12,77),(14,17,109)); lvl=6; h,r-ind=1,1
          [3,3]((5,6,38),(9,11,70),(10,12,77)); lvl=6; h,r-ind=1,1
        [4,3]((1,1,7),(5,6,39),(11,13,84),(15,18,116)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,39),(15,18,116),(16,19,123)); lvl=6; h,r-ind=1,1
          [3,3]((11,13,84),(15,18,116),(16,19,123)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,7),(5,6,39),(16,19,123)); lvl=6; h,r-ind=1,1
          [3,3]((11,13,84),(1,1,7),(16,19,123)); lvl=6; h,r-ind=1,1
        [4,3]((5,6,39),(14,17,109),(4,5,32),(15,18,116)); lvl=5; h,r-ind=1,1
          [3,3]((19,23,148),(14,17,109),(4,5,32)); lvl=6; h,r-ind=1,1
          [3,3]((5,6,39),(19,23,148),(4,5,32)); lvl=6; h,r-ind=1,1
          [3,3]((15,18,116),(19,23,148),(14,17,109)); lvl=6; h,r-ind=1,1
          [3,3]((5,6,39),(15,18,116),(19,23,148)); lvl=6; h,r-ind=1,1
        [3,3]((9,11,72),(5,6,39),(4,5,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,7),(9,11,72),(5,6,39)); lvl=5; h,r-ind=1,1
        [4,3]((8,10,63),(9,11,70),(14,17,109),(4,5,32)); lvl=5; h,r-ind=1,1
          [3,3]((9,11,70),(13,16,102),(14,17,109)); lvl=6; h,r-ind=1,1
          [3,3]((4,5,32),(13,16,102),(14,17,109)); lvl=6; h,r-ind=1,1
          [3,3]((8,10,63),(9,11,70),(13,16,102)); lvl=6; h,r-ind=1,1
          [3,3]((4,5,32),(8,10,63),(13,16,102)); lvl=6; h,r-ind=1,1
        [3,3]((5,6,38),(8,10,63),(9,11,70)); lvl=5; h,r-ind=1,1
        [4,3]((1,1,7),(5,6,38),(7,8,51),(11,13,84)); lvl=5; h,r-ind=1,3; alert-r-inc
          [3,3]((7,8,51),(6,7,45),(5,6,38)); lvl=6; h,r-ind=1,1
          [3,3]((11,13,84),(6,7,45),(5,6,38)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,7),(11,13,84),(6,7,45)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,7),(7,8,51),(6,7,45)); lvl=6; h,r-ind=1,1
  [3,3]((1,1,8),(1,1,7),(2,3,21)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,7),(1,1,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,8),(1,0,0),(1,1,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,4),(2,3,12),(4,6,33),(1,1,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,5),(1,1,6),(2,3,16),(4,6,29)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,6),(4,5,26),(2,3,15),(2,3,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,21),(4,5,26),(2,3,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,16),(3,4,21),(2,3,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,6),(2,3,16),(3,4,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,6),(3,4,21),(4,5,26)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,5),(1,1,6),(4,5,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,5),(4,5,26),(2,3,15)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,29),(1,1,5),(2,3,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,4),(1,1,5),(2,3,12),(4,6,29)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,5),(5,6,27),(4,6,27),(2,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(3,4,18),(5,6,27)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,5),(6,8,37),(3,4,18)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,14),(6,8,37),(4,6,27),(3,4,18)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,18),(6,8,37),(5,7,32)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,14),(6,8,37),(5,7,32)); lvl=6; h,r-ind=1,1
          [3,3]((4,6,27),(3,4,18),(5,7,32)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,14),(4,6,27),(5,7,32)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,14),(1,1,5),(6,8,37)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,5),(4,6,29),(2,3,14)); lvl=4; h,r-ind=1,1
      [4,3]((1,1,4),(2,3,12),(5,6,27),(4,6,27)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,3,13),(3,4,18),(7,9,39)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,1,4),(5,6,27),(3,4,18),(7,9,39)); lvl=5; h,r-ind=1,3
          [3,3]((5,6,27),(4,5,22),(3,4,18)); lvl=6; h,r-ind=1,1
          [3,3]((7,9,39),(4,5,22),(3,4,18)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,4),(7,9,39),(4,5,22)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,4),(5,6,27),(4,5,22)); lvl=6; h,r-ind=1,1
        [4,3]((1,1,4),(2,3,12),(2,3,13),(7,9,39)); lvl=5; h,r-ind=1,3
          [3,3]((3,4,17),(2,3,13),(2,3,12)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,4),(3,4,17),(2,3,12)); lvl=6; h,r-ind=1,1
          [3,3]((7,9,39),(3,4,17),(2,3,13)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,4),(7,9,39),(3,4,17)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,13),(4,6,27),(3,4,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,5),(1,1,4),(5,6,27)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,6),(4,6,33),(2,3,16)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,4),(1,1,6)); lvl=2; h,r-ind=2,2; optimized-h
[4,3]((0,1,0),(1,2,11),(2,3,12),(2,3,21)); lvl=1; h,r-ind=1,1
  [4,3]((2,4,17),(4,6,33),(2,3,21),(1,2,10)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((1,2,9),(1,2,10),(2,3,21),(4,6,37)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,10),(5,9,48),(2,3,21),(4,6,39)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((3,5,29),(2,3,20),(4,6,39)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,29),(7,12,69),(2,3,20)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,10),(7,12,69),(2,3,21),(2,3,20)); lvl=5; h,r-ind=1,3
          [3,3]((3,5,30),(2,3,21),(2,3,20)); lvl=6; h,r-ind=1,1
          [3,3]((7,12,69),(3,5,30),(2,3,20)); lvl=6; h,r-ind=1,1
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            [3,3]((1,2,10),(7,12,69),(3,5,30)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,10),(3,5,30),(2,3,21)); lvl=6; h,r-ind=1,1
          [4,3]((1,2,10),(5,9,48),(3,5,29),(7,12,69)); lvl=5; h,r-ind=1,3
            [3,3]((4,7,39),(5,9,48),(3,5,29)); lvl=6; h,r-ind=1,1
            [3,3]((7,12,69),(4,7,39),(3,5,29)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,10),(7,12,69),(4,7,39)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,10),(4,7,39),(5,9,48)); lvl=6; h,r-ind=1,1
        [4,3]((1,2,9),(5,9,48),(2,3,19),(4,6,39)); lvl=4; h,r-ind=1,1
          [4,3]((3,5,29),(6,10,57),(2,3,19),(4,6,39)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((6,10,57),(2,3,19),(5,8,48)); lvl=6; h,r-ind=1,1
            [3,3]((4,6,39),(2,3,19),(5,8,48)); lvl=6; h,r-ind=1,1
            [3,3]((3,5,29),(4,6,39),(5,8,48)); lvl=6; h,r-ind=1,1
            [3,3]((3,5,29),(6,10,57),(5,8,48)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,9),(3,5,29),(6,10,57)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,9),(3,5,29),(5,9,48)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,9),(6,10,57),(2,3,19)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,37),(1,2,9),(2,3,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,9),(1,2,10),(5,9,48)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,9),(2,3,17),(4,6,37)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((3,5,25),(1,2,9),(2,3,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,25),(4,6,33),(2,3,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,25),(1,2,9),(2,4,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,11),(2,3,21),(1,2,10)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,11),(1,2,10)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,17),(1,2,10)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,2,6),(2,3,12),(2,4,17),(4,6,33)); lvl=2; h,r-ind=1,1
      [4,3]((2,4,15),(1,2,8),(2,3,16),(4,6,29)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,8),(7,12,53),(2,3,16),(2,3,15)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((3,5,23),(2,3,16),(2,3,15)); lvl=5; h,r-ind=1,1
          [3,3]((7,12,53),(3,5,23),(2,3,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,8),(7,12,53),(3,5,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,8),(3,5,23),(2,3,16)); lvl=5; h,r-ind=1,1
        [4,3]((3,5,22),(4,7,30),(7,12,53),(2,3,15)); lvl=4; h,r-ind=1,1
          [3,3]((4,7,30),(7,12,53),(6,10,45)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,15),(7,12,53),(6,10,45)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,22),(2,3,15),(6,10,45)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,22),(4,7,30),(6,10,45)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,22),(4,6,29),(2,3,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,15),(3,5,22),(4,7,30)); lvl=4; h,r-ind=1,1
        [4,3]((2,4,15),(1,2,8),(4,7,30),(7,12,53)); lvl=4; h,r-ind=1,1
          [3,3]((1,2,8),(5,9,38),(7,12,53)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,30),(5,9,38),(7,12,53)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,30),(2,4,15),(5,9,38)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,15),(1,2,8),(5,9,38)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,6),(2,4,15),(2,3,12),(4,6,29)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,7),(2,3,14),(4,6,27)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,6),(1,2,7),(2,3,12),(4,6,27)); lvl=4; h,r-ind=1,1
          [3,3]((1,2,7),(4,6,27),(2,3,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,7),(4,7,26),(2,3,13)); lvl=5; h,r-ind=1,1
          [4,3]((1,2,6),(2,3,12),(4,7,26),(2,3,13)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,5,19),(2,3,13),(2,3,12)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,6),(3,5,19),(2,3,12)); lvl=6; h,r-ind=1,1
            [3,3]((4,7,26),(3,5,19),(2,3,13)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,6),(4,7,26),(3,5,19)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,7),(1,2,6),(4,7,26)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,22),(1,2,7),(2,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,22),(4,6,29),(2,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,22),(2,4,15),(1,2,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,25),(1,2,8),(2,3,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,25),(4,6,33),(2,3,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,25),(2,4,17),(1,2,8)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,6),(2,4,17)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,1,8),(2,3,23),(2,3,21)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,2,12),(1,2,11),(2,3,23),(2,3,21)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,11),(4,7,45),(2,3,21),(2,3,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,21),(3,5,33),(2,3,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,45),(3,5,33),(2,3,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,11),(4,7,45),(3,5,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,11),(2,3,21),(3,5,33)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,12),(4,7,45),(2,3,23),(2,3,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,23),(2,3,22),(3,5,34)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,45),(2,3,22),(3,5,34)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,12),(4,7,45),(3,5,34)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,12),(2,3,23),(3,5,34)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,12),(1,2,11),(4,7,45)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,24),(1,2,12),(2,3,23)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,12),(1,2,11)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,24),(1,1,8),(2,3,23)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,3,12)); lvl=1; h,r-ind=12,24; optimized-h
```

24.22 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,5,24)); lvl=0; h,r-ind=24,288
  [5,3]((2,5,19),(1,2,5),(3,7,28),(1,2,8),(2,5,12)); lvl=1; h,r-ind=1,1
    [5,3]((2,5,12),(6,14,45),(4,10,31),(1,2,5),(2,4,13)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,22),(4,9,29),(1,2,6),(2,4,13)); lvl=3; h,r-ind=1,1
        [3,3]((2,4,13),(1,2,6),(5,11,35)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,22),(1,2,6),(5,11,35)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,29),(3,7,22),(5,11,35)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,29),(2,4,13),(5,11,35)); lvl=4; h,r-ind=1,1
      [4,3]((5,12,38),(3,7,22),(4,9,29),(6,14,45)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,22),(4,9,29),(9,21,67)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,45),(4,9,29),(9,21,67)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,38),(3,7,22),(9,21,67)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,45),(5,12,38),(9,21,67)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,14),(2,5,15),(3,7,22),(1,2,6)); lvl=3; h,r-ind=1,1
        [3,3]((3,7,21),(2,5,15),(3,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(3,7,21),(3,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,14),(3,7,21),(2,5,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,5,14),(3,7,21)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,12),(2,5,14),(1,2,5),(1,2,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,6),(1,2,5),(4,9,24)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,13),(2,5,12),(1,2,5),(4,9,24)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,7,18),(1,2,5),(2,5,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,13),(3,7,18),(2,5,12)); lvl=5; h,r-ind=1,1
          [3,3]((4,9,24),(3,7,18),(1,2,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,13),(4,9,24),(3,7,18)); lvl=5; h,r-ind=1,1
        [4,3]((2,5,14),(2,5,13),(1,2,6),(4,9,24)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,13),(4,9,24),(3,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(4,9,24),(3,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,14),(2,5,13),(3,7,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(2,5,14),(3,7,19)); lvl=5; h,r-ind=1,1
      [4,3]((4,10,31),(5,12,38),(2,5,15),(3,7,22)); lvl=3; h,r-ind=1,1
        [3,3]((7,17,53),(3,7,22),(5,12,38)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,31),(7,17,53),(5,12,38)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,15),(7,17,53),(3,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,31),(2,5,15),(7,17,53)); lvl=4; h,r-ind=1,1
    [4,3]((3,7,27),(6,14,45),(1,2,8),(2,4,13)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((4,9,29),(2,4,13),(1,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,23),(4,9,29),(1,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,23),(6,14,49),(1,2,7)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((3,7,27),(6,14,49),(1,2,8),(1,2,7)); lvl=3; h,r-ind=1,1
        [3,3]((6,13,48),(1,2,7),(1,2,8)); lvl=4; h,r-ind=1,1
        [4,3]((3,7,27),(6,14,51),(6,13,48),(1,2,8)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((1,2,8),(9,20,75),(4,9,33),(6,13,48)); lvl=5; h,r-ind=1,3
            [3,3]((4,9,33),(5,11,41),(9,20,75)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,8),(5,11,41),(9,20,75)); lvl=6; h,r-ind=1,1
            [3,3]((6,13,48),(1,2,8),(5,11,41)); lvl=6; h,r-ind=1,1
            [3,3]((6,13,48),(4,9,33),(5,11,41)); lvl=6; h,r-ind=1,1
          [3,3]((3,7,26),(9,20,75),(4,9,33)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,2,8),(3,7,27),(3,7,26),(9,20,75)); lvl=5; h,r-ind=1,3
            [3,3]((4,9,34),(3,7,26),(3,7,27)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,8),(4,9,34),(3,7,27)); lvl=6; h,r-ind=1,1
            [3,3]((9,20,75),(4,9,34),(3,7,26)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,8),(9,20,75),(4,9,34)); lvl=6; h,r-ind=1,1
          [3,3]((3,7,26),(4,9,33),(6,14,51)); lvl=5; h,r-ind=1,1
        [4,3]((6,14,51),(3,7,25),(6,13,48),(1,2,7)); lvl=4; h,r-ind=1,1
          [3,3]((8,18,65),(1,2,7),(3,7,25)); lvl=5; h,r-ind=1,1
          [4,3]((6,14,51),(8,18,65),(4,9,33),(3,7,25)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((7,16,58),(4,9,33),(8,18,65)); lvl=6; h,r-ind=1,1
            [3,3]((3,7,25),(7,16,58),(8,18,65)); lvl=6; h,r-ind=1,1
            [3,3]((6,14,51),(7,16,58),(4,9,33)); lvl=6; h,r-ind=1,1
            [3,3]((3,7,25),(6,14,51),(7,16,58)); lvl=6; h,r-ind=1,1
          [3,3]((8,18,65),(4,9,33),(1,2,7)); lvl=5; h,r-ind=1,1
          [3,3]((6,13,48),(4,9,33),(1,2,7)); lvl=5; h,r-ind=1,1
        [3,3]((6,14,49),(3,7,25),(1,2,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,23),(6,14,45),(4,9,29)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,27),(3,7,28),(1,2,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,19),(3,7,27),(3,7,28)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,19),(3,7,27),(6,14,45),(4,10,31)); lvl=2; h,r-ind=1,1
      [3,3]((6,14,45),(3,7,23),(5,12,38)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,16),(3,7,23),(5,12,38)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,31),(2,5,16),(5,12,38)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,17),(2,5,16),(6,14,49),(3,7,23)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,17),(6,14,49),(3,7,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,17),(7,17,57),(3,7,24)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,16),(7,17,57),(3,7,23),(3,7,24)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,7,23),(3,7,24),(5,12,40)); lvl=5; h,r-ind=1,1
          [3,3]((7,17,57),(3,7,24),(5,12,40)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,16),(7,17,57),(5,12,40)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((2,5,16),(3,7,23),(5,12,40)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,16),(2,5,17),(7,17,57)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,19),(2,5,17),(3,7,27),(6,14,49)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,17),(3,7,25),(6,14,49)); lvl=4; h,r-ind=1,1
        [4,3]((2,5,18),(2,5,17),(6,14,51),(3,7,25)); lvl=4; h,r-ind=1,1
          [3,3]((5,12,43),(6,14,51),(3,7,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,17),(5,12,43),(3,7,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,18),(2,5,17),(5,12,43)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,18),(5,12,43),(6,14,51)); lvl=5; h,r-ind=1,1
        [4,3]((2,5,18),(2,5,19),(3,7,27),(6,14,51)); lvl=4; h,r-ind=1,1
          [4,3]((7,17,63),(3,7,26),(3,7,27),(2,5,19)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,7,26),(3,7,27),(5,12,45)); lvl=6; h,r-ind=1,1
            [3,3]((2,5,19),(3,7,27),(5,12,45)); lvl=6; h,r-ind=1,1
            [3,3]((7,17,63),(3,7,26),(5,12,45)); lvl=6; h,r-ind=1,1
            [3,3]((2,5,19),(7,17,63),(5,12,45)); lvl=6; h,r-ind=1,1
          [3,3]((2,5,18),(7,17,63),(2,5,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,18),(7,17,63),(3,7,26)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,18),(6,14,51),(3,7,26)); lvl=5; h,r-ind=1,1
[4,3]((1,0,0),(0,1,0),(1,2,5),(2,5,12)); lvl=1; h,r-ind=1,1
  [6,3]((1,2,4),(2,5,7),(5,11,25),(1,3,4),(1,3,6),(3,7,16)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,16),(2,5,11),(3,7,15),(4,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,31),(3,7,15),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,16),(6,14,31),(2,5,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,20),(6,14,31),(3,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,16),(4,9,20),(6,14,31)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(4,9,18),(3,7,15),(4,9,20)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,9,18),(4,9,19),(3,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,20),(4,9,19),(3,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(4,9,20),(4,9,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(4,9,18),(4,9,19)); lvl=4; h,r-ind=1,1
    [3,3]((5,11,25),(3,7,16),(4,9,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(5,11,25),(4,9,20)); lvl=3; h,r-ind=1,1
    [6,3]((4,9,18),(1,3,5),(2,5,9),(1,3,6),(2,5,11),(3,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(3,7,15),(5,12,25)); lvl=4; h,r-ind=1,1
      [4,3]((3,7,14),(5,12,24),(3,7,15),(5,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((8,19,39),(5,12,25),(5,12,24)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,14),(8,19,39),(5,12,24)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,15),(8,19,39),(5,12,25)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,14),(3,7,15),(8,19,39)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,14),(4,9,18),(3,7,15)); lvl=4; h,r-ind=1,1
      [4,3]((5,12,24),(2,5,11),(2,5,10),(5,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(2,5,11),(7,17,35)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,25),(2,5,11),(7,17,35)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,24),(2,5,10),(7,17,35)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,25),(5,12,24),(7,17,35)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,5),(4,10,19),(5,12,24),(2,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,19),(5,12,24),(6,15,29)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,10),(5,12,24),(6,15,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(2,5,10),(6,15,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,5),(4,10,19),(6,15,29)); lvl=5; h,r-ind=1,1
      [4,3]((4,10,19),(3,7,14),(2,5,9),(5,12,24)); lvl=4; h,r-ind=1,1
        [3,3]((7,17,33),(3,7,14),(2,5,9)); lvl=5; h,r-ind=1,1
        [3,3]((4,10,19),(7,17,33),(2,5,9)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,24),(4,10,19),(7,17,33)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,24),(7,17,33),(3,7,14)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,14),(4,9,18),(2,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(4,10,19),(2,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,11),(2,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,3,6),(2,5,10)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(4,9,18),(2,5,9),(2,5,8)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,9),(4,9,18),(3,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(4,9,18),(3,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(2,5,9),(3,7,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,8),(3,7,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,4),(1,3,5),(2,5,9),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,9),(3,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(2,5,9),(3,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,8),(3,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,5),(3,8,13)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,7),(1,3,4),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,7),(2,5,8)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,12),(1,3,6),(3,7,16)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,2,5),(5,11,25),(2,5,12),(3,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,21),(5,11,25),(3,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,12),(4,9,21),(3,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(2,5,12),(4,9,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(4,9,21),(5,11,25)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,5),(1,2,4),(5,11,25),(1,1,2)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((2,4,9),(5,11,25),(1,2,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,4,9),(1,2,4)); lvl=3; h,r-ind=1,1
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      [3,3]((1,2,5),(1,1,2),(2,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,4,9),(5,11,25)); lvl=3; h,r-ind=1,1
    [5,3]((1,2,4),(2,2,3),(2,5,6),(2,5,7),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,2),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(1,2,3),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,9),(2,5,6),(1,2,3)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,2,3),(4,7,9),(1,2,3)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(1,0,0),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(0,1,0),(1,3,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,5,6),(2,5,7),(1,3,4),(0,1,0)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(4,11,14)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(2,5,6),(2,5,7),(4,11,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,6),(3,8,10),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,14),(3,8,10),(2,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,5,6),(3,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,14),(1,3,3),(3,8,10)); lvl=4; h,r-ind=1,1
      [4,3]((0,1,0),(1,3,3),(1,3,4),(4,11,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,6,7),(1,3,3),(4,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(1,3,4),(4,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,6,7),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,6,7),(1,3,3)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(2,2,3),(2,5,6),(0,1,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((2,3,3),(4,7,9),(2,5,6),(1,3,3)); lvl=3; h,r-ind=3,1
        [4,3]((1,2,2),(1,3,3),(2,4,5),(2,5,6)); lvl=4; h,r-ind=1,1
          [3,3]((1,3,3),(2,5,6),(3,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,5),(2,5,6),(3,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(1,3,3),(3,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((2,4,5),(1,2,2),(3,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(3,5,6),(4,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,3,3),(1,3,3)); lvl=3; h,r-ind=3,3; optimized-h
      [4,3]((1,1,1),(2,3,3),(2,2,3),(4,7,9)); lvl=3; h,r-ind=1,1
        [3,3]((3,5,6),(2,3,4),(4,7,9)); lvl=4; h,r-ind=1,1
        [4,3]((4,6,7),(7,10,12),(3,5,6),(2,3,4)); lvl=4; h,r-ind=1,1
          [3,3]((6,9,11),(7,10,12),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,6),(6,9,11),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,7),(6,9,11),(7,10,12)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,7),(3,5,6),(6,9,11)); lvl=5; h,r-ind=1,1
        [4,3]((2,2,3),(1,1,1),(7,10,12),(2,3,4)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((3,4,5),(1,1,1),(7,10,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,4),(3,4,5),(7,10,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,7),(3,5,6),(2,3,3)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,1),(4,6,7),(7,10,12),(2,3,3)); lvl=4; h,r-ind=1,1
          [3,3]((5,7,8),(7,10,12),(4,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,3),(5,7,8),(4,6,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(2,3,3),(5,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(5,7,8),(7,10,12)); lvl=5; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,3,10),(2,5,19),(2,5,12)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,10),(1,3,9),(2,5,19)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,8),(4,10,31),(1,3,9),(2,5,19)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,9),(6,17,51),(2,5,19),(2,5,17)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [3,3]((2,5,18),(4,11,35),(2,5,17)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((4,11,34),(4,11,35),(2,5,17)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,3,9),(4,11,34),(6,17,51),(4,11,35)); lvl=4; h,r-ind=1,2
          [3,3]((6,17,51),(5,14,43),(4,11,34)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,35),(5,14,43),(4,11,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,9),(4,11,35),(5,14,43)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,9),(6,17,51),(5,14,43)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,9),(2,5,19),(2,5,18),(4,11,35)); lvl=4; h,r-ind=1,2
          [3,3]((2,5,19),(3,8,27),(2,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,35),(3,8,27),(2,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,9),(4,11,35),(3,8,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,9),(2,5,19),(3,8,27)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,8),(6,17,51),(2,5,16),(2,5,17)); lvl=3; h,r-ind=1,1
        [3,3]((3,8,25),(2,5,16),(2,5,17)); lvl=4; h,r-ind=1,1
        [4,3]((4,11,34),(8,22,67),(3,8,25),(2,5,17)); lvl=4; h,r-ind=1,1
          [3,3]((7,19,59),(3,8,25),(8,22,67)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,34),(7,19,59),(8,22,67)); lvl=5; h,r-ind=1,1
          [3,3]((7,19,59),(2,5,17),(3,8,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,34),(7,19,59),(2,5,17)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,8),(6,17,51),(4,11,34),(8,22,67)); lvl=4; h,r-ind=1,1
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          [3,3]((4,11,34),(5,14,42),(6,17,51)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(5,14,42),(6,17,51)); lvl=5; h,r-ind=1,1
          [3,3]((8,22,67),(4,11,34),(5,14,42)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,8),(8,22,67),(5,14,42)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(3,8,25),(2,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(8,22,67),(3,8,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(2,5,16),(4,10,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(1,3,9),(6,17,51)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,8),(1,3,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,6),(2,5,12),(1,3,8),(4,10,31)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,8),(1,3,7),(2,5,14),(2,5,15)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,7),(2,5,14),(3,8,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,15),(2,5,14),(3,8,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(1,3,7),(3,8,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,15),(1,3,8),(3,8,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,8),(4,10,31),(2,5,15)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,6),(1,3,7),(2,5,12),(2,5,14)); lvl=3; h,r-ind=1,1
        [4,3]((1,3,7),(4,11,26),(2,5,13),(2,5,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,8,20),(4,11,26),(2,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,14),(3,8,20),(2,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(2,5,14),(3,8,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,7),(3,8,20),(4,11,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(1,3,7),(4,11,26)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,6),(4,11,26),(2,5,12),(2,5,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,13),(3,8,19),(2,5,12)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,6),(3,8,19),(2,5,12)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,26),(1,3,6),(3,8,19)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,26),(2,5,13),(3,8,19)); lvl=5; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,6),(1,3,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,3,10),(1,3,9)); lvl=2; h,r-ind=1,1
[4,3]((1,0,0),(1,2,5),(1,2,8),(4,5,23)); lvl=1; h,r-ind=3,6
  [4,3]((1,1,4),(3,3,13),(1,2,8),(5,7,31)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,13),(8,10,43),(4,5,22),(5,6,26)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,39),(8,10,43),(5,6,26)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,22),(7,9,39),(5,6,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,13),(4,5,22),(7,9,39)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,13),(7,9,39),(8,10,43)); lvl=4; h,r-ind=1,1
    [3,3]((3,3,13),(4,5,22),(5,6,26)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,4),(8,10,43),(3,3,13),(5,6,26)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,43),(6,7,30),(5,6,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,13),(6,7,30),(5,6,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(8,10,43),(6,7,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,13),(1,1,4),(6,7,30)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,4),(1,2,8),(2,3,13),(8,10,43)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((3,4,17),(2,3,13),(1,2,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(3,4,17),(1,2,8)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,43),(3,4,17),(2,3,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(8,10,43),(3,4,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,13),(5,7,31),(4,5,22)); lvl=3; h,r-ind=1,1
  [4,3]((4,5,23),(2,2,9),(3,3,13),(5,7,31)); lvl=2; h,r-ind=1,1
    [4,3]((6,7,31),(11,13,58),(2,2,9),(3,3,13)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,40),(2,2,9),(11,13,58)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,31),(8,9,40),(11,13,58)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,31),(3,3,13),(8,9,40)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,13),(8,9,40),(2,2,9)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,22),(6,7,31),(3,3,13)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,18),(4,5,22),(6,7,31),(11,13,58)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,22),(9,11,49),(6,7,31)); lvl=4; h,r-ind=1,1
      [3,3]((11,13,58),(9,11,49),(6,7,31)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,18),(4,5,22),(9,11,49)); lvl=4; h,r-ind=1,1
      [3,3]((11,13,58),(3,4,18),(9,11,49)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,18),(5,7,31),(4,5,22)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,23),(3,4,18),(11,13,58),(2,2,9)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((5,6,27),(3,4,18),(11,13,58)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,9),(5,6,27),(11,13,58)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,23),(2,2,9),(5,6,27)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,23),(5,6,27),(3,4,18)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(4,5,23),(2,2,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,9),(3,3,13)); lvl=2; h,r-ind=1,1
  [4,3]((2,4,13),(2,2,7),(1,1,4),(1,2,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,7),(3,4,14),(1,1,4),(5,7,25)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,18),(3,4,14),(5,7,25)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(4,5,18),(5,7,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,7),(4,5,18),(3,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,4),(2,2,7),(4,5,18)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,7),(1,2,8),(1,1,4),(5,7,25)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,3,11),(1,2,8),(1,1,4)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,25),(2,3,11),(1,1,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(5,7,25),(2,3,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,7),(2,3,11),(1,2,8)); lvl=4; h,r-ind=1,1
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      [4,3]((1,2,7),(2,3,10),(3,4,14),(5,7,25)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,10),(4,6,21),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,25),(4,6,21),(3,4,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(5,7,25),(4,6,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,7),(2,3,10),(4,6,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,13),(1,2,7),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,10),(2,2,7),(3,4,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,5),(1,1,3),(2,4,13),(2,2,7)); lvl=2; h,r-ind=1,1
      [4,3]((5,7,22),(3,4,13),(2,2,7),(1,1,3)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,13),(2,2,7),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(2,2,7),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,22),(3,4,13),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(5,7,22),(4,5,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,5),(1,2,6),(5,7,22),(1,1,3)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((1,2,6),(5,7,22),(2,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(5,7,22),(2,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(1,2,6),(2,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(1,2,5),(2,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,10),(3,4,13),(2,2,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,6),(5,7,22),(2,3,10),(3,4,13)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,22),(4,6,19),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(4,6,19),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(2,3,10),(4,6,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(5,7,22),(4,6,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,4,13),(2,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(2,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,5),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,7),(1,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,4),(3,3,13)); lvl=2; h,r-ind=1,1
  [6,3]((4,9,42),(3,7,32),(3,7,28),(1,2,8),(4,5,23),(2,3,14)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,9),(3,7,30),(3,7,32)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,9,42),(1,2,9),(3,7,32)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,42),(1,2,9),(3,6,28)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,9),(3,6,28),(2,3,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,9),(3,7,30),(3,7,28)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,9),(1,2,8),(3,7,28)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,9),(1,2,8),(5,7,31)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,9),(4,5,23),(5,7,31)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,9),(2,3,14),(4,5,23)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(4,5,23),(2,3,14)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,24),(4,9,42),(2,3,14)); lvl=1; h,r-ind=4,2; optimized-h
  [3,3]((1,0,0),(2,5,24),(2,3,14)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((2,5,24),(2,5,23),(4,9,42),(3,7,32)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,32),(2,5,23),(8,19,88)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,33),(2,5,24),(2,5,23),(8,19,88)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,24),(5,12,56),(2,5,23)); lvl=3; h,r-ind=1,1
      [3,3]((8,19,88),(5,12,56),(2,5,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,33),(2,5,24),(5,12,56)); lvl=3; h,r-ind=1,1
      [3,3]((8,19,88),(3,7,33),(5,12,56)); lvl=3; h,r-ind=1,1
    [4,3]((4,9,42),(3,7,33),(3,7,32),(8,19,88)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,7,33),(8,19,88),(6,14,65)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,32),(8,19,88),(6,14,65)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,42),(3,7,33),(6,14,65)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,32),(4,9,42),(6,14,65)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,19),(2,5,23),(3,7,32),(3,7,28)); lvl=1; h,r-ind=4,1
    [4,3]((2,5,23),(2,5,21),(3,7,32),(3,7,30)); lvl=2; h,r-ind=2,1
      [4,3]((2,5,22),(2,5,21),(3,7,31),(3,7,30)); lvl=3; h,r-ind=1,1
        [3,3]((5,12,52),(3,7,30),(3,7,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,22),(5,12,52),(3,7,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,21),(5,12,52),(3,7,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,22),(2,5,21),(5,12,52)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,22),(2,5,23),(3,7,32),(3,7,31)); lvl=3; h,r-ind=1,1
        [3,3]((5,12,54),(3,7,32),(2,5,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,22),(5,12,54),(2,5,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,31),(2,5,22),(5,12,54)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,31),(5,12,54),(3,7,32)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,19),(3,7,28),(2,5,21),(3,7,30)); lvl=2; h,r-ind=2,1
      [4,3]((2,5,21),(2,5,20),(3,7,30),(3,7,29)); lvl=3; h,r-ind=1,1
        [3,3]((5,12,50),(3,7,29),(3,7,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,21),(5,12,50),(3,7,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,20),(5,12,50),(3,7,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,21),(2,5,20),(5,12,50)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,19),(2,5,20),(3,7,28),(3,7,29)); lvl=3; h,r-ind=1,1
        [3,3]((5,12,48),(3,7,29),(3,7,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,19),(5,12,48),(3,7,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,20),(5,12,48),(3,7,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,19),(2,5,20),(5,12,48)); lvl=4; h,r-ind=1,1
  [4,3]((1,3,12),(1,3,10),(2,5,19),(2,5,23)); lvl=1; h,r-ind=2,1
    [4,3]((1,3,11),(2,5,21),(1,3,10),(2,5,19)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,10),(4,11,41),(2,5,19),(2,5,20)); lvl=3; h,r-ind=1,2; alert-r-inc
```

```
        [3,3]((2,5,19),(3,8,30),(2,5,20)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,41),(3,8,30),(2,5,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,10),(4,11,41),(3,8,30)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,10),(2,5,19),(3,8,30)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,11),(4,11,41),(2,5,21),(2,5,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,31),(2,5,21),(2,5,20)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,41),(3,8,31),(2,5,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,11),(4,11,41),(3,8,31)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,11),(3,8,31),(2,5,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,11),(1,3,10),(4,11,41)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,12),(1,3,11),(2,5,23),(2,5,21)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,11),(4,11,45),(2,5,21),(2,5,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,21),(3,8,33),(2,5,22)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,45),(3,8,33),(2,5,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,11),(4,11,45),(3,8,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,11),(2,5,21),(3,8,33)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,12),(4,11,45),(2,5,23),(2,5,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,23),(2,5,22),(3,8,34)); lvl=4; h,r-ind=1,1
        [3,3]((4,11,45),(2,5,22),(3,8,34)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,12),(4,11,45),(3,8,34)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,12),(2,5,23),(3,8,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,12),(1,3,11),(4,11,45)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,24),(1,3,12),(2,5,23)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,12),(1,3,10)); lvl=1; h,r-ind=2,2; optimized-h
```

24.23 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,7,24)); lvl=0; h,r-ind=24,288
  [5,3]((1,0,0),(0,1,0),(1,2,4),(2,6,11),(2,7,12)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,12),(1,4,6),(1,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,3,3),(1,4,6),(1,3,5)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,5),(1,3,4),(2,8,9),(1,3,5)); lvl=3; h,r-ind=1,1
        [3,3]((2,8,9),(1,3,4),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(1,3,4),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,8,9),(2,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(1,3,5),(2,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(1,4,5),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,6),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,5),(2,8,9)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,3,3),(1,3,4),(2,8,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,4),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,4,4),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(1,3,4),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,8,9),(1,4,4)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,3),(1,3,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,2,4),(1,1,2),(1,2,3),(1,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(1,2,3),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,3),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,1,2),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,4),(2,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,2),(1,2,3),(1,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(4,6,9),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,3),(1,3,3),(4,6,9),(1,2,3)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,2,2),(1,3,3),(1,2,3),(5,9,12)); lvl=4; h,r-ind=1,3
          [3,3]((2,4,5),(1,3,3),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((5,9,12),(2,4,5),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(5,9,12),(2,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,2),(2,4,5),(1,3,3)); lvl=5; h,r-ind=1,1
        [4,3]((2,3,4),(4,6,9),(1,2,3),(5,9,12)); lvl=4; h,r-ind=1,3
          [3,3]((3,5,7),(4,6,9),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((5,9,12),(3,5,7),(1,2,3)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,4),(5,9,12),(3,5,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,4),(3,5,7),(4,6,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,4),(1,2,2),(5,9,12)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,3,3),(2,3,4),(1,2,2)); lvl=4; h,r-ind=1,1
      [4,3]((1,0,0),(2,3,3),(1,1,2),(4,6,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,1,2),(5,6,9),(2,3,4),(4,6,9)); lvl=4; h,r-ind=1,3
          [3,3]((2,3,4),(3,4,6),(5,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(3,4,6),(5,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,9),(1,1,2),(3,4,6)); lvl=5; h,r-ind=1,1
          [3,3]((4,6,9),(2,3,4),(3,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(5,6,9),(2,3,4)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((1,1,1),(2,3,3),(2,3,4)); lvl=4; h,r-ind=1,1
        [4,3]((1,0,0),(1,1,2),(1,1,1),(5,6,9)); lvl=4; h,r-ind=1,3
          [3,3]((1,1,2),(2,2,3),(5,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(5,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=5; h,r-ind=1,1
```

```
        [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=5; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,3,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,6,11),(2,7,12),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,4),(2,6,11),(1,3,5)); lvl=2; h,r-ind=1,1
[5,3]((3,10,26),(2,7,17),(1,3,8),(2,6,11),(2,7,12)); lvl=1; h,r-ind=1,1
  [5,3]((1,3,6),(2,6,13),(2,7,12),(4,14,29),(6,20,43)); lvl=2; h,r-ind=1,1
    [4,3]((4,13,28),(3,10,21),(5,17,36),(6,20,43)); lvl=3; h,r-ind=1,1
      [3,3]((9,30,64),(5,17,36),(3,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,28),(9,30,64),(3,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((6,20,43),(9,30,64),(5,17,36)); lvl=4; h,r-ind=1,1
      [3,3]((4,13,28),(6,20,43),(9,30,64)); lvl=4; h,r-ind=1,1
    [4,3]((2,6,13),(4,13,28),(5,16,33),(3,10,21)); lvl=3; h,r-ind=1,1
      [4,3]((4,13,27),(5,16,34),(11,35,74),(3,10,21)); lvl=4; h,r-ind=1,1
        [3,3]((9,29,61),(11,35,74),(5,16,34)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,21),(9,29,61),(5,16,34)); lvl=5; h,r-ind=1,1
        [3,3]((4,13,27),(3,10,21),(9,29,61)); lvl=5; h,r-ind=1,1
        [3,3]((4,13,27),(9,29,61),(11,35,74)); lvl=5; h,r-ind=1,1
      [4,3]((2,6,13),(5,16,33),(4,13,27),(11,35,74)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,27),(6,19,40),(5,16,33)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,13),(6,19,40),(5,16,33)); lvl=5; h,r-ind=1,1
        [3,3]((11,35,74),(2,6,13),(6,19,40)); lvl=5; h,r-ind=1,1
        [3,3]((11,35,74),(4,13,27),(6,19,40)); lvl=5; h,r-ind=1,1
      [3,3]((4,13,28),(5,16,34),(3,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(4,13,28),(5,16,34)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(5,16,34),(11,35,74)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(2,6,13),(5,16,33)); lvl=3; h,r-ind=1,1
    [4,3]((4,14,29),(2,7,14),(3,10,21),(5,17,36)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,21),(2,7,14),(7,24,50)); lvl=4; h,r-ind=1,1
      [3,3]((4,14,29),(2,7,14),(7,24,50)); lvl=4; h,r-ind=1,1
      [3,3]((5,17,36),(4,14,29),(7,24,50)); lvl=4; h,r-ind=1,1
      [3,3]((5,17,36),(3,10,21),(7,24,50)); lvl=4; h,r-ind=1,1
    [4,3]((5,16,33),(2,7,14),(4,14,27),(3,10,21)); lvl=3; h,r-ind=1,1
      [4,3]((11,37,75),(4,14,27),(3,10,20),(2,7,14)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((5,17,34),(3,10,20),(4,14,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,14),(5,17,34),(4,14,27)); lvl=5; h,r-ind=1,1
        [3,3]((11,37,75),(5,17,34),(3,10,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,14),(11,37,75),(5,17,34)); lvl=5; h,r-ind=1,1
      [4,3]((3,10,21),(6,20,41),(11,37,75),(2,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((8,27,55),(6,20,41),(11,37,75)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,14),(8,27,55),(11,37,75)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,21),(8,27,55),(6,20,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,14),(3,10,21),(8,27,55)); lvl=5; h,r-ind=1,1
      [4,3]((6,20,41),(11,37,75),(4,13,27),(3,10,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,20),(11,37,75),(9,30,61)); lvl=5; h,r-ind=1,1
        [3,3]((6,20,41),(11,37,75),(9,30,61)); lvl=5; h,r-ind=1,1
        [3,3]((6,20,41),(4,13,27),(9,30,61)); lvl=5; h,r-ind=1,1
        [3,3]((4,13,27),(3,10,20),(9,30,61)); lvl=5; h,r-ind=1,1
      [3,3]((5,16,33),(4,13,27),(3,10,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,21),(6,20,41),(4,13,27)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,6),(5,16,33),(2,7,12),(4,14,27)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((3,10,20),(2,7,13),(4,14,27)); lvl=4; h,r-ind=1,1
      [3,3]((7,23,45),(3,10,20),(2,7,13)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,3,6),(7,23,45),(2,7,12),(2,7,13)); lvl=4; h,r-ind=1,3
        [3,3]((3,10,19),(2,7,13),(2,7,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(3,10,19),(2,7,12)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,45),(3,10,19),(2,7,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(7,23,45),(3,10,19)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,6),(7,23,45),(5,16,33),(3,10,20)); lvl=4; h,r-ind=1,3
        [3,3]((7,23,45),(4,13,26),(3,10,20)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,33),(4,13,26),(3,10,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(5,16,33),(4,13,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,6),(7,23,45),(4,13,26)); lvl=5; h,r-ind=1,1
  [4,3]((3,10,25),(2,7,17),(4,14,29),(6,20,43)); lvl=2; h,r-ind=1,1
    [4,3]((3,10,22),(3,10,23),(2,7,15),(4,14,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,15),(5,17,38),(4,14,31)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,23),(5,17,38),(4,14,31)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,22),(2,7,15),(5,17,38)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,23),(3,10,22),(5,17,38)); lvl=4; h,r-ind=1,1
    [4,3]((3,10,25),(3,10,23),(2,7,17),(4,14,31)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,23),(4,14,31),(2,7,16)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,23),(3,10,24),(2,7,16)); lvl=4; h,r-ind=1,1
      [4,3]((3,10,25),(3,10,24),(2,7,17),(2,7,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,16),(2,7,17),(5,17,41)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,25),(2,7,17),(5,17,41)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,24),(3,10,25),(5,17,41)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,24),(2,7,16),(5,17,41)); lvl=5; h,r-ind=1,1
    [3,3]((3,10,22),(5,17,36),(2,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((5,17,36),(4,14,29),(2,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,22),(6,20,43),(5,17,36)); lvl=3; h,r-ind=1,1
  [3,3]((3,10,26),(3,10,25),(1,3,8)); lvl=2; h,r-ind=1,1
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  [3,3]((3,10,26),(3,10,25),(2,7,17)); lvl=2; h,r-ind=1,1
  [4,3]((3,10,25),(1,3,8),(2,6,13),(6,20,43)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(2,6,13),(4,13,28)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,22),(1,3,7),(4,13,28)); lvl=3; h,r-ind=1,1
    [3,3]((6,20,43),(3,10,22),(4,13,28)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,23),(3,10,22),(1,3,7)); lvl=3; h,r-ind=1,1
    [4,3]((3,10,25),(3,10,23),(1,3,7),(1,3,8)); lvl=3; h,r-ind=1,1
      [4,3]((3,10,24),(3,10,23),(1,3,7),(5,16,39)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,7),(4,13,31),(3,10,23)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,24),(4,13,31),(3,10,23)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,39),(3,10,24),(4,13,31)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,39),(1,3,7),(4,13,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,8),(1,3,7),(5,16,39)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,8),(3,10,25),(3,10,24),(5,16,39)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,24),(3,10,25),(4,13,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(3,10,25),(4,13,32)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,39),(3,10,24),(4,13,32)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,8),(5,16,39),(4,13,32)); lvl=5; h,r-ind=1,1
  [3,3]((2,6,11),(1,3,6),(2,7,12)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(1,4,9),(2,7,17),(2,7,12)); lvl=1; h,r-ind=1,1
  [4,3]((2,8,15),(4,14,29),(2,7,17),(1,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,15),(4,14,31),(3,11,23)); lvl=3; h,r-ind=1,1
    [5,3]((9,34,69),(1,4,8),(2,7,17),(4,14,31),(3,11,23)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,8),(7,26,55),(10,37,78),(4,15,31)); lvl=4; h,r-ind=1,1
        [3,3]((7,26,55),(10,37,78),(11,41,86)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,31),(10,37,78),(11,41,86)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(7,26,55),(11,41,86)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,31),(1,4,8),(11,41,86)); lvl=5; h,r-ind=1,1
      [4,3]((3,11,23),(9,33,70),(10,37,78),(4,15,31)); lvl=4; h,r-ind=1,1
        [3,3]((9,33,70),(10,37,78),(13,48,101)); lvl=5; h,r-ind=1,1
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        [3,3]((4,15,31),(3,11,23),(13,48,101)); lvl=5; h,r-ind=1,1
      [3,3]((9,34,69),(3,11,23),(4,15,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(9,34,69),(4,15,31)); lvl=4; h,r-ind=1,1
      [5,3]((5,18,39),(9,33,70),(2,7,16),(7,26,55),(10,37,78)); lvl=4; h,r-ind=1,1
        [3,3]((6,22,47),(7,26,55),(10,37,78)); lvl=5; h,r-ind=1,1
        [3,3]((9,33,70),(6,22,47),(10,37,78)); lvl=5; h,r-ind=1,1
        [3,3]((5,18,39),(9,33,70),(6,22,47)); lvl=5; h,r-ind=1,1
        [3,3]((6,22,47),(2,7,16),(7,26,55)); lvl=5; h,r-ind=1,1
        [3,3]((5,18,39),(6,22,47),(2,7,16)); lvl=5; h,r-ind=1,1
      [3,3]((4,14,31),(5,18,39),(2,7,16)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,23),(4,14,31),(5,18,39),(9,33,70)); lvl=4; h,r-ind=1,1
        [3,3]((8,29,62),(4,14,31),(5,18,39)); lvl=5; h,r-ind=1,1
        [3,3]((9,33,70),(8,29,62),(5,18,39)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,23),(9,33,70),(8,29,62)); lvl=5; h,r-ind=1,1
        [3,3]((3,11,23),(8,29,62),(4,14,31)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,8),(2,7,17),(2,7,16),(7,26,55)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((3,11,24),(2,7,17),(2,7,16)); lvl=5; h,r-ind=1,1
        [3,3]((7,26,55),(3,11,24),(2,7,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,8),(3,11,24),(2,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((7,26,55),(1,4,8),(3,11,24)); lvl=5; h,r-ind=1,1
    [4,3]((2,8,15),(9,34,69),(5,19,38),(1,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((6,23,46),(5,19,38),(9,34,69)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(6,23,46),(9,34,69)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,15),(1,4,8),(6,23,46)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,15),(6,23,46),(5,19,38)); lvl=4; h,r-ind=1,1
    [5,3]((9,34,69),(5,19,38),(3,11,22),(2,7,15),(3,11,23)); lvl=3; h,r-ind=1,1
      [5,3]((4,15,30),(3,11,22),(7,26,53),(12,44,91),(2,7,15)); lvl=4; h,r-ind=1,1
        [4,3]((15,55,113),(7,26,53),(9,33,68),(13,48,98)); lvl=5; h,r-ind=1,1
          [3,3]((9,33,68),(7,26,53),(22,81,166)); lvl=6; h,r-ind=1,1
          [3,3]((13,48,98),(7,26,53),(22,81,166)); lvl=6; h,r-ind=1,1
          [3,3]((15,55,113),(13,48,98),(22,81,166)); lvl=6; h,r-ind=1,1
          [3,3]((15,55,113),(9,33,68),(22,81,166)); lvl=6; h,r-ind=1,1
        [4,3]((4,15,30),(6,22,45),(15,55,113),(13,48,98)); lvl=5; h,r-ind=1,1
          [3,3]((19,70,143),(15,55,113),(6,22,45)); lvl=6; h,r-ind=1,1
          [3,3]((4,15,30),(19,70,143),(6,22,45)); lvl=6; h,r-ind=1,1
          [3,3]((13,48,98),(4,15,30),(19,70,143)); lvl=6; h,r-ind=1,1
          [3,3]((13,48,98),(19,70,143),(15,55,113)); lvl=6; h,r-ind=1,1
        [3,3]((4,15,30),(6,22,45),(3,11,22)); lvl=5; h,r-ind=1,1
        [3,3]((15,55,113),(2,7,15),(9,33,68)); lvl=5; h,r-ind=1,1
        [3,3]((6,22,45),(15,55,113),(2,7,15)); lvl=5; h,r-ind=1,1
        [3,3]((6,22,45),(3,11,22),(2,7,15)); lvl=5; h,r-ind=1,1
        [3,3]((4,15,30),(7,26,53),(13,48,98)); lvl=5; h,r-ind=1,1
        [3,3]((7,26,53),(12,44,91),(9,33,68)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,15),(12,44,91),(9,33,68)); lvl=5; h,r-ind=1,1
      [3,3]((3,11,23),(12,44,91),(2,7,15)); lvl=4; h,r-ind=1,1
      [4,3]((3,11,23),(8,30,61),(7,26,53),(12,44,91)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((10,37,76),(8,30,61),(7,26,53)); lvl=5; h,r-ind=1,1
        [3,3]((12,44,91),(10,37,76),(7,26,53)); lvl=5; h,r-ind=1,1
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          [3,3]((3,11,23),(12,44,91),(10,37,76)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,23),(10,37,76),(8,30,61)); lvl=5; h,r-ind=1,1
        [3,3]((9,34,69),(3,11,23),(8,30,61)); lvl=4; h,r-ind=1,1
        [3,3]((5,19,38),(9,34,69),(8,30,61)); lvl=4; h,r-ind=1,1
        [4,3]((5,19,38),(4,15,30),(8,30,61),(7,26,53)); lvl=4; h,r-ind=1,1
          [3,3]((7,26,53),(4,15,30),(12,45,91)); lvl=5; h,r-ind=1,1
          [3,3]((5,19,38),(4,15,30),(12,45,91)); lvl=5; h,r-ind=1,1
          [3,3]((8,30,61),(5,19,38),(12,45,91)); lvl=5; h,r-ind=1,1
          [3,3]((8,30,61),(7,26,53),(12,45,91)); lvl=5; h,r-ind=1,1
      [3,3]((2,8,15),(5,19,38),(3,11,22)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((3,11,22),(4,14,29),(2,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,9),(2,7,17),(1,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,9),(1,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,8,15),(1,4,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,12),(1,4,6),(2,8,15),(4,14,29)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,7),(2,8,15),(3,11,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,14),(1,4,7),(3,11,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,14),(4,14,29),(3,11,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,27),(2,7,14),(1,4,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,7,12),(4,14,27),(1,4,6),(1,4,7)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,6),(4,15,26),(1,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,13),(4,15,26),(1,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,13),(4,14,27),(1,4,7)); lvl=4; h,r-ind=1,1
        [4,3]((2,7,12),(2,7,13),(1,4,6),(4,15,26)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,7,13),(4,15,26),(3,11,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(4,15,26),(3,11,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,12),(2,7,13),(3,11,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(2,7,12),(3,11,19)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,6),(2,8,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
[6,3]((2,7,23),(3,10,33),(1,4,12),(1,4,9),(3,10,26),(2,7,17)); lvl=1; h,r-ind=1,1
  [4,3]((2,7,22),(6,20,59),(2,7,20),(3,10,33)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,20),(2,7,21),(3,10,30),(3,10,31)); lvl=3; h,r-ind=1,1
      [3,3]((5,17,51),(3,10,31),(3,10,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,20),(5,17,51),(3,10,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,21),(5,17,51),(3,10,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,20),(2,7,21),(5,17,51)); lvl=4; h,r-ind=1,1
    [4,3]((3,10,33),(2,7,22),(2,7,21),(3,10,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,22),(2,7,21),(7,24,75)); lvl=4; h,r-ind=1,1
      [4,3]((3,10,32),(3,10,31),(2,7,21),(7,24,75)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,31),(2,7,21),(5,17,53)); lvl=5; h,r-ind=1,1
        [3,3]((7,24,75),(2,7,21),(5,17,53)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,32),(3,10,31),(5,17,53)); lvl=5; h,r-ind=1,1
        [3,3]((7,24,75),(3,10,32),(5,17,53)); lvl=5; h,r-ind=1,1
      [4,3]((3,10,33),(3,10,32),(2,7,22),(7,24,75)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,10,32),(7,24,75),(5,17,54)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,22),(7,24,75),(5,17,54)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,33),(2,7,22),(5,17,54)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,33),(3,10,32),(5,17,54)); lvl=5; h,r-ind=1,1
    [3,3]((2,7,20),(6,20,59),(3,10,30)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,23),(2,7,22),(3,10,33)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,12),(2,7,22),(2,8,21),(2,7,20)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,11),(2,7,20),(2,7,21)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,12),(1,4,11),(2,7,22),(2,7,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,22),(2,7,21),(3,11,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,11),(2,7,21),(3,11,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,12),(1,4,11),(3,11,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,12),(2,7,22),(3,11,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,11),(2,8,21),(2,7,20)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,23),(1,4,12),(2,7,22)); lvl=2; h,r-ind=1,1
  [4,3]((2,8,21),(2,7,20),(2,7,18),(1,4,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,10),(1,4,9),(2,7,18),(2,7,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,9),(2,7,18),(3,11,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,19),(2,7,18),(3,11,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,10),(1,4,9),(3,11,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,19),(1,4,10),(3,11,28)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,10),(2,7,20),(2,7,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,21),(1,4,10),(2,7,20)); lvl=3; h,r-ind=1,1
  [4,3]((3,10,26),(6,20,59),(2,7,20),(2,7,18)); lvl=2; h,r-ind=1,1
    [4,3]((3,10,29),(3,10,28),(2,7,19),(2,7,20)); lvl=3; h,r-ind=1,1
      [3,3]((5,17,48),(2,7,19),(3,10,28)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,29),(5,17,48),(3,10,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,20),(5,17,48),(2,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,29),(2,7,20),(5,17,48)); lvl=4; h,r-ind=1,1
    [3,3]((6,20,59),(3,10,29),(2,7,20)); lvl=3; h,r-ind=1,1
    [4,3]((3,10,26),(2,7,18),(3,10,28),(2,7,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,18),(2,7,19),(7,24,64)); lvl=4; h,r-ind=1,1
      [4,3]((3,10,27),(3,10,28),(2,7,19),(7,24,64)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,17,46),(3,10,28),(2,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((7,24,64),(5,17,46),(2,7,19)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,27),(7,24,64),(5,17,46)); lvl=5; h,r-ind=1,1
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          [3,3]((3,10,27),(5,17,46),(3,10,28)); lvl=5; h,r-ind=1,1
        [4,3]((3,10,26),(3,10,27),(2,7,18),(7,24,64)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,10,27),(7,24,64),(5,17,45)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,18),(7,24,64),(5,17,45)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,26),(3,10,27),(5,17,45)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,18),(3,10,26),(5,17,45)); lvl=5; h,r-ind=1,1
    [3,3]((3,10,26),(2,7,18),(2,7,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,18),(1,4,9),(2,7,17)); lvl=2; h,r-ind=1,1
[3,3]((2,7,24),(2,7,23),(1,4,12)); lvl=1; h,r-ind=1,1
[3,3]((2,7,24),(2,7,23),(3,10,33)); lvl=1; h,r-ind=1,1
[3,3]((0,1,0),(1,4,12),(1,4,9)); lvl=1; h,r-ind=3,3; optimized-h
[5,3]((2,5,15),(1,3,8),(1,2,6),(1,2,4),(2,6,11)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,14),(2,5,12),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(1,2,5),(4,9,24)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,13),(2,5,12),(1,2,5),(4,9,24)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,7,18),(1,2,5),(2,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(3,7,18),(2,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,24),(3,7,18),(1,2,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(4,9,24),(3,7,18)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,14),(2,5,13),(1,2,6),(4,9,24)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,13),(4,9,24),(3,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(4,9,24),(3,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,14),(2,5,13),(3,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(2,5,14),(3,7,19)); lvl=4; h,r-ind=1,1
  [5,3]((1,3,6),(2,6,13),(2,5,12),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,11),(5,13,29),(1,2,5),(4,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,23),(5,13,29),(6,15,34)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,11),(5,13,29),(6,15,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,11),(6,15,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(4,10,23),(6,15,34)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,12),(1,2,5),(4,10,23)); lvl=3; h,r-ind=1,1
    [5,3]((2,6,13),(2,5,12),(5,13,29),(4,11,24),(4,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,18),(4,10,23),(2,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(3,8,18),(2,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,18),(4,10,23),(5,13,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,18),(4,11,24),(5,13,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,13),(3,8,18),(4,11,24)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,6),(2,5,11),(5,13,29),(4,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(5,13,29),(6,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,24),(5,13,29),(6,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(4,11,24),(6,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,11),(6,16,35)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,13),(1,3,6),(4,11,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,11),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,2,4),(2,5,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,6),(2,6,11),(1,2,4)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,8),(2,6,13),(2,5,14),(2,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(2,5,13),(2,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,7),(2,6,13),(2,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,7),(1,3,8),(2,5,14),(2,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(2,5,14),(3,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(2,5,14),(3,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,8),(3,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(1,3,7),(3,8,21)); lvl=4; h,r-ind=1,1
  [3,3]((2,5,15),(1,3,8),(2,5,14)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,15),(2,5,14),(1,2,6)); lvl=2; h,r-ind=1,1
[4,3]((1,3,10),(2,5,15),(2,4,13),(1,2,6)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,16),(1,2,6),(2,4,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,10),(2,5,16),(2,4,13)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,16),(2,5,15),(1,2,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,10),(2,5,16),(2,5,15)); lvl=2; h,r-ind=1,1
[5,3]((1,3,10),(3,10,33),(3,10,26),(2,5,15),(1,3,8)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,9),(3,10,26),(1,3,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,15),(1,3,9),(1,3,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,10),(2,5,15),(1,3,9)); lvl=2; h,r-ind=1,1
  [3,3]((6,20,59),(1,3,9),(3,10,26)); lvl=2; h,r-ind=7,7; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((3,10,33),(6,20,59),(1,3,9)); lvl=2; h,r-ind=7,7; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,3,10),(3,10,33),(1,3,9)); lvl=2; h,r-ind=1,1
[3,3]((2,7,24),(1,3,10),(3,10,33)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(1,2,6),(1,2,4)); lvl=1; h,r-ind=4,2; optimized-h
[4,3]((1,0,0),(2,4,13),(2,3,10),(1,2,6)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,10),(5,8,26),(2,4,13)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,3),(1,2,6),(5,8,26),(2,4,13)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((1,2,6),(3,5,16),(2,4,13)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,26),(3,5,16),(2,4,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(1,2,6),(3,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,26),(1,1,3),(3,5,16)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,3),(2,3,10),(5,8,26)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((3,4,13),(1,1,3),(5,8,26)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,13),(2,3,10),(5,8,26)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,0,0),(3,4,13),(2,3,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,4,13),(1,1,3)); lvl=3; h,r-ind=1,1
  [4,3]((3,8,27),(1,3,10),(2,4,13),(2,3,10)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,10),(2,4,13),(3,6,20)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(2,4,13),(3,6,20)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,27),(1,3,10),(3,6,20)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,10),(3,8,27),(3,6,20)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,7,24),(3,8,27),(2,3,10)); lvl=1; h,r-ind=1,2
    [3,3]((2,5,17),(2,7,24),(3,8,27)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,17),(2,3,10),(3,8,27)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,5,17),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,5,17),(2,7,24)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,24),(3,8,27),(1,3,10)); lvl=1; h,r-ind=1,1
```

24.24 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,9,24)); lvl=0; h,r-ind=24,96
  [5,3]((1,4,10),(1,4,8),(1,3,6),(4,9,21),(2,6,15)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,7),(1,3,6),(1,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,9),(1,3,7),(1,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,10),(1,4,9),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,10),(2,6,15),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,7),(1,3,6),(5,12,27)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,3,7),(2,5,12),(4,9,21),(5,12,27)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,16),(2,5,12),(4,9,21),(6,15,35)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,9,21),(5,12,28),(2,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((6,15,35),(5,12,28),(2,5,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,16),(6,15,35),(5,12,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,16),(4,9,21),(5,12,28)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(3,7,16),(6,15,35)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(3,7,16),(5,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,5,12),(6,15,35)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,15),(1,3,7),(2,5,12)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,8),(1,0,0),(4,9,21),(2,6,15)); lvl=1; h,r-ind=3,3
    [4,3]((1,2,5),(4,9,21),(5,9,21),(2,5,12)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,12),(3,6,14),(6,13,31),(4,9,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,11,26),(3,6,14),(6,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(5,11,26),(6,13,31)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,21),(5,11,26),(3,6,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(4,9,21),(5,11,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(3,6,14),(6,13,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,12),(1,2,5),(6,13,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(3,6,14),(5,9,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,15),(1,2,5),(2,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,8),(2,6,15),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,5),(5,9,21)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,3,8),(1,0,0),(1,2,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,8),(3,13,34),(1,4,10),(2,6,15)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,8),(2,8,21),(2,7,18),(5,19,49)); lvl=2; h,r-ind=1,1
      [3,3]((4,15,39),(2,8,21),(5,19,49)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,39),(2,7,18),(5,19,49)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(4,15,39),(2,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(4,15,39),(2,8,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,10),(2,7,18),(5,19,49)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,15),(1,4,10),(2,7,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,8),(2,6,15),(2,7,18)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,10),(3,13,34),(2,8,21),(5,19,49)); lvl=2; h,r-ind=1,1
      [3,3]((3,13,34),(3,12,31),(2,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((5,19,49),(3,12,31),(2,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,10),(5,19,49),(3,12,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,10),(3,13,34),(3,12,31)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,24),(1,3,8),(3,13,34)); lvl=1; h,r-ind=2,2; optimized-h
  [6,3]((1,5,12),(1,5,8),(3,13,34),(2,9,15),(1,4,10),(1,4,8)); lvl=1; h,r-ind=1,1
    [5,3]((2,9,19),(2,9,16),(1,4,9),(6,26,57),(1,4,8)); lvl=2; h,r-ind=1,1
      [5,3]((1,4,8),(6,25,52),(6,26,53),(2,9,16),(4,18,35)); lvl=3; h,r-ind=1,1
        [4,3]((3,13,26),(5,22,44),(4,17,35),(6,26,53)); lvl=4; h,r-ind=1,1
          [3,3]((9,39,79),(6,26,53),(5,22,44)); lvl=5; h,r-ind=1,1
          [3,3]((3,13,26),(9,39,79),(5,22,44)); lvl=5; h,r-ind=1,1
          [3,3]((4,17,35),(9,39,79),(6,26,53)); lvl=5; h,r-ind=1,1
          [3,3]((3,13,26),(4,17,35),(9,39,79)); lvl=5; h,r-ind=1,1
        [4,3]((2,9,17),(3,13,26),(5,22,44),(4,18,35)); lvl=4; h,r-ind=1,1
          [3,3]((7,31,61),(5,22,44),(3,13,26)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,17),(7,31,61),(3,13,26)); lvl=5; h,r-ind=1,1
          [3,3]((4,18,35),(7,31,61),(5,22,44)); lvl=5; h,r-ind=1,1
          [3,3]((2,9,17),(4,18,35),(7,31,61)); lvl=5; h,r-ind=1,1
        [3,3]((4,17,34),(2,9,17),(3,13,26)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,8),(4,17,34),(2,9,17),(2,9,16)); lvl=4; h,r-ind=1,2; alert-r-inc
```

```
      [3,3]((4,17,34),(3,13,25),(2,9,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,16),(3,13,25),(2,9,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,8),(2,9,16),(3,13,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,8),(4,17,34),(3,13,25)); lvl=5; h,r-ind=1,1
    [3,3]((4,17,34),(3,13,26),(4,17,35)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,8),(6,25,52),(4,17,34),(4,17,35)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((5,21,43),(4,17,34),(4,17,35)); lvl=5; h,r-ind=1,1
      [3,3]((6,25,52),(5,21,43),(4,17,35)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,8),(6,25,52),(5,21,43)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,8),(5,21,43),(4,17,34)); lvl=5; h,r-ind=1,1
  [4,3]((2,9,19),(3,13,28),(6,26,53),(4,18,35)); lvl=3; h,r-ind=3,1; alert-h-inc
    [3,3]((3,13,27),(6,26,53),(5,22,44)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,18),(3,13,27),(5,22,44)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,18),(4,18,35),(5,22,44)); lvl=4; h,r-ind=1,1
    [4,3]((2,9,19),(2,9,18),(3,13,28),(3,13,27)); lvl=4; h,r-ind=1,1
      [3,3]((5,22,46),(3,13,27),(3,13,28)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,19),(5,22,46),(3,13,28)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,18),(5,22,46),(3,13,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,19),(2,9,18),(5,22,46)); lvl=5; h,r-ind=1,1
  [3,3]((2,9,19),(6,26,57),(3,13,28)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,9),(1,4,8),(6,25,52)); lvl=3; h,r-ind=1,1
  [4,3]((3,13,28),(1,4,9),(6,25,52),(6,26,53)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((4,17,35),(9,38,80),(1,4,9),(6,25,52)); lvl=4; h,r-ind=1,3
      [3,3]((1,4,9),(5,21,44),(9,38,80)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,35),(5,21,44),(9,38,80)); lvl=5; h,r-ind=1,1
      [3,3]((6,25,52),(4,17,35),(5,21,44)); lvl=5; h,r-ind=1,1
      [3,3]((6,25,52),(1,4,9),(5,21,44)); lvl=5; h,r-ind=1,1
    [3,3]((3,13,27),(4,17,35),(9,38,80)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((3,13,27),(4,17,35),(6,26,53)); lvl=4; h,r-ind=1,1
    [4,3]((3,13,28),(3,13,27),(9,38,80),(1,4,9)); lvl=4; h,r-ind=1,3
      [3,3]((4,17,36),(3,13,27),(9,38,80)); lvl=5; h,r-ind=1,1
      [3,3]((4,17,36),(1,4,9),(9,38,80)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,28),(4,17,36),(1,4,9)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,28),(4,17,36),(3,13,27)); lvl=5; h,r-ind=1,1
  [3,3]((6,26,57),(3,13,28),(1,4,9)); lvl=3; h,r-ind=1,1
[3,3]((2,9,16),(2,9,15),(1,4,8)); lvl=2; h,r-ind=1,1
[3,3]((1,5,8),(2,9,16),(2,9,15)); lvl=2; h,r-ind=1,1
[4,3]((1,5,8),(2,9,19),(1,5,10),(2,9,16)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,10),(1,5,9),(2,9,19),(4,18,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,9),(4,18,35),(2,9,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,9),(4,19,37),(2,9,18)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,10),(4,19,37),(2,9,19),(2,9,18)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,14,28),(2,9,19),(2,9,18)); lvl=5; h,r-ind=1,1
      [3,3]((4,19,37),(3,14,28),(2,9,18)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(4,19,37),(3,14,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,10),(3,14,28),(2,9,19)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,10),(1,5,9),(4,19,37)); lvl=4; h,r-ind=1,1
  [4,3]((1,5,8),(2,9,16),(1,5,9),(4,18,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,9),(2,9,17),(4,18,35)); lvl=4; h,r-ind=1,1
    [3,3]((4,19,34),(1,5,9),(2,9,17)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,8),(4,19,34),(2,9,16),(2,9,17)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,14,25),(2,9,16),(2,9,17)); lvl=5; h,r-ind=1,1
      [3,3]((4,19,34),(3,14,25),(2,9,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(4,19,34),(3,14,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,8),(3,14,25),(2,9,16)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,8),(4,19,34),(1,5,9)); lvl=4; h,r-ind=1,1
[4,3]((1,4,10),(1,4,9),(3,13,32),(6,26,57)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,9),(3,13,29),(6,26,57)); lvl=3; h,r-ind=1,1
  [4,3]((7,29,68),(1,4,9),(3,13,29),(3,13,30)); lvl=3; h,r-ind=1,1
    [3,3]((4,17,39),(1,4,9),(3,13,29)); lvl=4; h,r-ind=1,1
    [3,3]((3,13,30),(4,17,39),(3,13,29)); lvl=4; h,r-ind=1,1
    [4,3]((5,21,49),(10,42,97),(3,13,30),(4,17,39)); lvl=4; h,r-ind=1,1
      [3,3]((9,38,88),(10,42,97),(4,17,39)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,30),(9,38,88),(4,17,39)); lvl=5; h,r-ind=1,1
      [3,3]((5,21,49),(3,13,30),(9,38,88)); lvl=5; h,r-ind=1,1
      [3,3]((5,21,49),(9,38,88),(10,42,97)); lvl=5; h,r-ind=1,1
    [3,3]((10,42,97),(4,17,39),(1,4,9)); lvl=4; h,r-ind=1,1
    [4,3]((5,21,49),(7,29,68),(10,42,97),(1,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((7,29,68),(1,4,9),(6,25,58)); lvl=5; h,r-ind=1,1
      [3,3]((10,42,97),(1,4,9),(6,25,58)); lvl=5; h,r-ind=1,1
      [3,3]((5,21,49),(7,29,68),(6,25,58)); lvl=5; h,r-ind=1,1
      [3,3]((5,21,49),(10,42,97),(6,25,58)); lvl=5; h,r-ind=1,1
  [3,3]((1,4,10),(7,29,68),(1,4,9)); lvl=3; h,r-ind=1,1
  [4,3]((1,4,10),(7,29,68),(3,13,32),(3,13,30)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
    [3,3]((5,21,50),(3,13,30),(3,13,31)); lvl=4; h,r-ind=2,2; optimized-h
    [4,3]((1,4,10),(5,21,50),(3,13,32),(3,13,31)); lvl=4; h,r-ind=1,2
      [3,3]((3,13,32),(4,17,41),(3,13,31)); lvl=5; h,r-ind=1,1
      [3,3]((5,21,50),(4,17,41),(3,13,31)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,10),(5,21,50),(4,17,41)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,10),(3,13,32),(4,17,41)); lvl=5; h,r-ind=1,1
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      [3,3]((5,21,49),(5,21,50),(3,13,30)); lvl=4; h,r-ind=2,2; optimized-h
      [4,3]((1,4,10),(7,29,68),(5,21,49),(5,21,50)); lvl=4; h,r-ind=1,2
        [3,3]((5,21,49),(6,25,59),(7,29,68)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,10),(6,25,59),(7,29,68)); lvl=5; h,r-ind=1,1
        [3,3]((5,21,50),(5,21,49),(6,25,59)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,10),(5,21,50),(6,25,59)); lvl=5; h,r-ind=1,1
  [6,3]((1,5,12),(2,9,19),(1,5,10),(2,9,23),(3,13,32),(6,26,57)); lvl=2; h,r-ind=1,1
    [3,3]((4,18,39),(1,5,10),(2,9,19)); lvl=3; h,r-ind=1,1
    [4,3]((6,26,57),(3,13,29),(4,18,39),(2,9,19)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,22,48),(3,13,29),(4,18,39)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,19),(5,22,48),(4,18,39)); lvl=4; h,r-ind=1,1
      [3,3]((6,26,57),(5,22,48),(3,13,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,19),(6,26,57),(5,22,48)); lvl=4; h,r-ind=1,1
    [4,3]((2,9,21),(4,18,39),(1,5,10),(1,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,20),(4,18,39),(1,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,20),(4,19,41),(1,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,11),(4,19,41),(1,5,10)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,20),(2,9,21),(1,5,11),(4,19,41)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,11),(3,14,31),(2,9,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,20),(3,14,31),(2,9,21)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,41),(2,9,20),(3,14,31)); lvl=5; h,r-ind=1,1
        [3,3]((4,19,41),(1,5,11),(3,14,31)); lvl=5; h,r-ind=1,1
    [4,3]((3,13,29),(3,13,30),(2,9,21),(4,18,39)); lvl=3; h,r-ind=1,1
      [4,3]((3,13,30),(2,9,20),(8,35,79),(2,9,21)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,9,20),(5,22,50),(8,35,79)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,30),(5,22,50),(8,35,79)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,21),(3,13,30),(5,22,50)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,21),(2,9,20),(5,22,50)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,29),(3,13,30),(8,35,79)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,29),(2,9,20),(8,35,79)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,29),(4,18,39),(2,9,20)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,12),(2,9,21),(1,5,11),(2,9,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,11),(2,9,21),(3,14,33)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,22),(2,9,21),(3,14,33)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,12),(1,5,11),(3,14,33)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,22),(1,5,12),(3,14,33)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,12),(2,9,23),(2,9,22)); lvl=3; h,r-ind=1,1
    [4,3]((3,13,32),(3,13,30),(2,9,21),(2,9,22)); lvl=3; h,r-ind=1,1
      [4,3]((3,13,31),(3,13,30),(2,9,21),(7,31,74)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,13,30),(2,9,21),(5,22,52)); lvl=5; h,r-ind=1,1
        [3,3]((7,31,74),(2,9,21),(5,22,52)); lvl=5; h,r-ind=1,1
        [3,3]((3,13,31),(3,13,30),(5,22,52)); lvl=5; h,r-ind=1,1
        [3,3]((7,31,74),(3,13,31),(5,22,52)); lvl=5; h,r-ind=1,1
      [3,3]((2,9,22),(2,9,21),(7,31,74)); lvl=4; h,r-ind=1,1
      [4,3]((2,9,22),(3,13,32),(3,13,31),(7,31,74)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,22,53),(3,13,32),(3,13,31)); lvl=5; h,r-ind=1,1
        [3,3]((7,31,74),(5,22,53),(3,13,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,22),(7,31,74),(5,22,53)); lvl=5; h,r-ind=1,1
        [3,3]((2,9,22),(5,22,53),(3,13,32)); lvl=5; h,r-ind=1,1
    [3,3]((2,9,23),(3,13,32),(2,9,22)); lvl=3; h,r-ind=1,1
  [4,3]((3,13,34),(2,9,23),(1,4,10),(3,13,32)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((3,13,33),(2,9,23),(3,13,32)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,10),(3,13,33),(3,13,32)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,34),(3,13,33),(2,9,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,10),(3,13,34),(3,13,33)); lvl=3; h,r-ind=1,1
[3,3]((2,9,24),(1,5,12),(3,13,34)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((0,1,0),(1,5,12),(1,5,8)); lvl=1; h,r-ind=4,4; optimized-h
[5,3]((2,9,12),(2,6,9),(2,9,15),(1,4,8),(1,3,6)); lvl=1; h,r-ind=3,3
  [3,3]((1,4,7),(1,4,8),(2,9,15)); lvl=2; h,r-ind=1,1
  [4,3]((4,18,27),(1,4,7),(2,8,13),(2,9,15)); lvl=2; h,r-ind=1,1
    [4,3]((7,30,48),(4,17,27),(2,8,13),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,21,34),(2,8,13),(4,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((7,30,48),(5,21,34),(4,17,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(7,30,48),(5,21,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(5,21,34),(2,8,13)); lvl=4; h,r-ind=1,1
    [4,3]((2,9,14),(2,9,15),(7,30,48),(1,4,7)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,9,15),(1,4,7),(3,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((7,30,48),(1,4,7),(3,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,14),(7,30,48),(3,13,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,14),(2,9,15),(3,13,21)); lvl=4; h,r-ind=1,1
    [4,3]((3,13,20),(2,9,14),(7,30,48),(4,17,27)); lvl=3; h,r-ind=1,1
      [3,3]((6,26,41),(7,30,48),(2,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,20),(6,26,41),(2,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((6,26,41),(4,17,27),(7,30,48)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,20),(6,26,41),(4,17,27)); lvl=4; h,r-ind=1,1
    [3,3]((3,13,20),(4,18,27),(2,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((3,13,20),(4,17,27),(2,8,13)); lvl=3; h,r-ind=1,1
  [4,3]((2,9,12),(4,18,27),(2,8,13),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,13,20),(2,8,13),(4,17,26)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(7,30,45),(2,8,13),(4,17,26)); lvl=3; h,r-ind=1,1
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      [3,3]((7,30,45),(5,21,32),(4,17,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,13),(5,21,32),(4,17,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(7,30,45),(5,21,32)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,13),(1,4,6),(5,21,32)); lvl=4; h,r-ind=1,1
    [4,3]((7,30,45),(2,9,13),(3,13,20),(4,17,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,13),(6,26,39),(3,13,20)); lvl=4; h,r-ind=1,1
      [3,3]((4,17,26),(6,26,39),(3,13,20)); lvl=4; h,r-ind=1,1
      [3,3]((7,30,45),(4,17,26),(6,26,39)); lvl=4; h,r-ind=1,1
      [3,3]((7,30,45),(2,9,13),(6,26,39)); lvl=4; h,r-ind=1,1
    [4,3]((2,9,12),(1,4,6),(7,30,45),(2,9,13)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((3,13,19),(7,30,45),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,12),(3,13,19),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,13),(2,9,12),(3,13,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,13),(3,13,19),(7,30,45)); lvl=4; h,r-ind=1,1
    [3,3]((4,18,27),(2,9,13),(3,13,20)); lvl=3; h,r-ind=1,1
  [3,3]((2,8,13),(1,4,6),(1,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((4,15,21),(1,4,6),(2,6,9),(1,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,9),(2,7,10),(1,3,5),(4,14,21)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,10),(4,14,21),(3,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(4,14,21),(3,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(1,3,5),(3,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,6,9),(2,7,10),(3,10,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,6),(1,3,5),(4,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,10),(4,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((4,15,21),(1,4,6),(2,7,10)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,12),(4,15,21),(1,4,6)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,4,7),(1,3,6),(1,4,8)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,7),(2,8,13),(1,3,5),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(2,8,13),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(2,8,13),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(1,3,6),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,5),(2,7,12)); lvl=3; h,r-ind=1,1
[4,3]((0,1,0),(1,5,8),(2,9,12),(2,9,15)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,7),(2,9,15),(4,18,27)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,5,6),(1,5,7),(2,9,12),(4,18,27)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,13),(4,18,27)); lvl=3; h,r-ind=1,1
    [3,3]((4,19,26),(1,5,7),(2,9,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,6),(4,19,26),(2,9,12),(2,9,13)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,12),(3,14,19),(2,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,26),(3,14,19),(2,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(2,9,12),(3,14,19)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,26),(1,5,6),(3,14,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,6),(4,19,26),(1,5,7)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,6),(1,5,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,8),(1,5,7),(2,9,15)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,8),(1,5,7)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(1,0,0),(2,9,12),(2,6,9)); lvl=1; h,r-ind=3,3
  [4,3]((4,15,21),(2,7,9),(1,2,3),(2,6,9)); lvl=2; h,r-ind=3,1
    [4,3]((2,7,10),(2,6,9),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,13),(1,2,3),(2,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,10),(3,9,13),(2,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(3,9,13),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,10),(1,3,4),(3,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((3,11,15),(2,7,10),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,15),(2,7,9),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((4,15,21),(3,11,15),(2,7,10)); lvl=3; h,r-ind=1,1
  [4,3]((2,9,12),(1,5,6),(4,15,21),(2,7,9)); lvl=2; h,r-ind=3,1
    [4,3]((2,8,11),(2,9,12),(1,4,5),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,9,12),(3,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,11),(2,9,12),(3,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,8,11),(3,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,6),(3,13,17)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,11),(3,11,15),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,15),(2,7,9),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,11),(3,11,15),(4,15,21)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,3,3),(1,5,6),(2,7,9)); lvl=2; h,r-ind=3,3
    [4,3]((1,4,4),(3,11,12),(1,4,5),(2,9,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,8,9),(3,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(2,8,9),(3,11,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(2,9,9),(2,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,9),(1,4,5),(2,8,9)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,5,6),(1,4,5),(2,9,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,5,6),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,9),(1,5,5),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(1,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,4),(1,3,3),(3,11,12)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(1,3,3)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(3,11,12),(1,4,5),(2,7,9)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,7,8),(3,11,12),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,9),(2,7,8),(1,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,9),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,8),(3,11,12)); lvl=4; h,r-ind=1,1
  [4,3]((1,2,2),(1,3,3),(2,7,9),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,7,9),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(3,8,9),(1,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(1,2,3),(3,8,9),(1,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,3),(1,3,4),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,9),(1,3,4),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(3,8,9),(2,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(1,2,3),(2,5,6)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,3),(3,8,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,2),(1,0,0),(1,2,3)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,1
[4,3]((1,0,0),(2,6,9),(1,3,6),(4,9,21)); lvl=1; h,r-ind=9,3
  [4,3]((3,6,11),(1,2,4),(1,3,5),(1,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,6),(2,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,3,6),(2,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,11),(1,2,4),(2,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,11),(1,3,5),(2,5,9)); lvl=3; h,r-ind=1,1
  [4,3]((5,12,27),(3,6,13),(1,2,4),(1,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((8,18,39),(5,11,24),(3,6,13),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,28),(5,11,24),(3,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(6,13,28),(3,6,13)); lvl=4; h,r-ind=1,1
      [3,3]((8,18,39),(6,13,28),(5,11,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(8,18,39),(6,13,28)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,6),(2,5,11),(8,18,39),(1,2,4)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,5,11),(3,7,15),(8,18,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,15),(8,18,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(1,2,4),(3,7,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,11),(3,7,15)); lvl=4; h,r-ind=1,1
    [4,3]((4,9,20),(2,5,11),(8,18,39),(5,11,24)); lvl=3; h,r-ind=1,1
      [3,3]((8,18,39),(2,5,11),(7,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,20),(2,5,11),(7,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,24),(8,18,39),(7,16,35)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,24),(4,9,20),(7,16,35)); lvl=4; h,r-ind=1,1
    [3,3]((4,9,20),(5,12,27),(2,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,20),(5,11,24),(3,6,13)); lvl=3; h,r-ind=1,1
  [4,3]((3,6,11),(4,7,13),(1,2,4),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,13),(2,3,6),(5,9,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,6),(5,9,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,11),(4,7,13),(5,9,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,6,11),(5,9,17)); lvl=3; h,r-ind=1,1
  [4,3]((4,7,13),(3,5,9),(2,3,6),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,15),(1,1,2),(3,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,13),(5,8,15),(3,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(5,8,15),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,13),(2,3,6),(5,8,15)); lvl=3; h,r-ind=1,1
  [4,3]((3,5,11),(4,7,15),(2,3,6),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,15),(2,3,6),(5,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(5,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,11),(4,7,15),(5,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,5,11),(5,8,17)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(5,9,21),(3,5,11),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(5,9,21),(4,7,16)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,7),(8,12,27),(5,8,18),(4,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((8,12,27),(7,11,25),(5,8,18)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,16),(7,11,25),(5,8,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(4,7,16),(7,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(8,12,27),(7,11,25)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,11),(5,8,18),(4,7,16)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(1,0,0),(2,3,7),(8,12,27)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,3,7),(1,0,0),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(1,0,0),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((8,12,27),(2,3,7),(3,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(8,12,27),(3,4,9)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,2),(3,5,11),(8,12,27),(5,8,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(6,9,20),(5,8,18)); lvl=4; h,r-ind=1,1
      [3,3]((8,12,27),(6,9,20),(5,8,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(3,5,11),(6,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((8,12,27),(1,1,2),(6,9,20)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,0),(1,2,3),(3,5,9),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,9),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,5,9),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(2,3,5)); lvl=3; h,r-ind=1,1
  [4,3]((4,7,15),(3,6,13),(1,2,4),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,13),(1,2,4),(5,9,19)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,3,6),(1,2,4),(5,9,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,15),(3,6,13),(5,9,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(4,7,15),(5,9,19)); lvl=3; h,r-ind=1,1
    [6,3]((4,9,21),(5,9,21),(5,12,27),(3,5,11),(4,7,15),(3,6,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,9),(3,6,13),(4,9,20)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,16),(5,12,27),(2,4,9),(4,9,20)); lvl=3; h,r-ind=1,1
        [3,3]((7,16,36),(4,9,20),(5,12,27)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,16),(7,16,36),(5,12,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,9),(7,16,36),(4,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,16),(2,4,9),(7,16,36)); lvl=4; h,r-ind=1,1
      [4,3]((4,9,21),(3,6,14),(3,7,16),(2,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((2,4,9),(3,6,14),(6,13,30)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,21),(3,6,14),(6,13,30)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,16),(4,9,21),(6,13,30)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,16),(2,4,9),(6,13,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,9),(4,7,15),(3,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(2,4,9),(4,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(4,7,16),(2,4,9)); lvl=3; h,r-ind=1,1
      [4,3]((3,6,14),(5,9,21),(4,7,16),(2,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((5,9,21),(4,7,16),(7,13,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,9),(4,7,16),(7,13,30)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,14),(2,4,9),(7,13,30)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,14),(5,9,21),(7,13,30)); lvl=4; h,r-ind=1,1
    [5,3]((3,6,11),(1,2,3),(4,7,13),(3,5,9),(1,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,7),(3,5,9),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,4,7),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,11),(1,3,5),(2,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(4,7,13),(3,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,11),(2,4,7),(4,7,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,6,9),(1,3,5)); lvl=2; h,r-ind=1,1
```

24.25 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,11,24)); lvl=0; h,r-ind=24,288
  [7,3]((1,6,12),(6,31,67),(1,6,7),(2,11,13),(1,5,7),(4,20,43),(11,56,121)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,7),(2,11,14),(2,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,7),(2,11,14),(2,11,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,7),(2,11,14),(1,5,9),(2,11,18)); lvl=2; h,r-ind=2,1; alert-h-inc
      [4,3]((1,5,9),(1,5,8),(2,11,18),(2,11,16)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,8),(4,21,34),(2,11,17),(2,11,16)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,21,34),(3,16,25),(2,11,17)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,16),(3,16,25),(2,11,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,8),(2,11,16),(3,16,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,8),(4,21,34),(3,16,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,9),(1,5,8),(4,21,34)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,9),(4,21,34),(2,11,18),(2,11,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,17),(2,11,18),(3,16,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(2,11,18),(3,16,26)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,34),(2,11,17),(3,16,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(4,21,34),(3,16,26)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,7),(1,5,8),(2,11,14),(2,11,16)); lvl=3; h,r-ind=1,1
        [4,3]((1,5,8),(4,21,30),(2,11,15),(2,11,16)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,16,23),(2,11,15),(4,21,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,8),(3,16,23),(4,21,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,16),(3,16,23),(2,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,8),(2,11,16),(3,16,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,7),(1,5,8),(4,21,30)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,7),(4,21,30),(2,11,14),(2,11,15)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,16,22),(2,11,15),(2,11,14)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(3,16,22),(2,11,14)); lvl=5; h,r-ind=1,1
          [3,3]((4,21,30),(3,16,22),(2,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,7),(4,21,30),(3,16,22)); lvl=5; h,r-ind=1,1
    [4,3]((2,12,19),(1,6,7),(2,11,14),(2,11,18)); lvl=2; h,r-ind=1,1
      [4,3]((2,12,17),(1,6,7),(2,11,14),(2,11,16)); lvl=3; h,r-ind=1,1
        [4,3]((1,6,8),(1,6,7),(2,11,14),(2,11,15)); lvl=4; h,r-ind=1,1
          [3,3]((1,6,7),(2,11,14),(3,17,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,15),(2,11,14),(3,17,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,8),(1,6,7),(3,17,22)); lvl=5; h,r-ind=1,1
          [3,3]((2,11,15),(1,6,8),(3,17,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,8),(2,11,16),(2,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,12,17),(1,6,8),(2,11,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,9),(2,12,17),(2,11,18),(2,11,16)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,16),(4,23,34),(2,11,17)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [4,3]((1,6,9),(2,11,18),(4,23,34),(2,11,17)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,11,18),(3,17,26),(2,11,17)); lvl=5; h,r-ind=1,1
          [3,3]((4,23,34),(3,17,26),(2,11,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,9),(2,11,18),(3,17,26)); lvl=5; h,r-ind=1,1
```

```
      [3,3]((4,23,34),(1,6,9),(3,17,26)); lvl=5; h,r-ind=1,1
    [3,3]((2,12,17),(1,6,9),(4,23,34)); lvl=4; h,r-ind=1,1
    [3,3]((2,12,17),(2,11,16),(4,23,34)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,12,19),(1,6,9),(2,11,18)); lvl=3; h,r-ind=1,1
[7,3]((1,6,12),(2,12,19),(7,37,79),(6,31,66),(1,5,9),(2,11,18),(2,10,21)); lvl=2; h,r-ind=1,1
  [4,3]((2,11,18),(4,22,37),(2,12,19),(1,6,10)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((2,12,19),(3,17,28),(1,6,10)); lvl=4; h,r-ind=1,1
    [3,3]((4,22,37),(3,17,28),(1,6,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,18),(2,12,19),(3,17,28)); lvl=4; h,r-ind=1,1
    [3,3]((4,22,37),(2,11,18),(3,17,28)); lvl=4; h,r-ind=1,1
  [5,3]((2,12,21),(4,22,37),(1,5,9),(1,5,10),(1,6,10)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((1,5,10),(3,17,30),(2,12,21)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((1,6,10),(3,17,30),(2,12,21)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,10),(3,16,29),(4,22,39),(3,17,30)); lvl=4; h,r-ind=1,1
      [3,3]((3,16,29),(9,49,88),(4,22,39)); lvl=5; h,r-ind=1,1
      [4,3]((2,11,20),(3,17,30),(9,49,88),(4,22,39)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,30),(6,33,59),(4,22,39)); lvl=6; h,r-ind=1,1
        [3,3]((9,49,88),(6,33,59),(4,22,39)); lvl=6; h,r-ind=1,1
        [3,3]((2,11,20),(3,17,30),(6,33,59)); lvl=6; h,r-ind=1,1
        [3,3]((9,49,88),(2,11,20),(6,33,59)); lvl=6; h,r-ind=1,1
      [4,3]((1,5,10),(2,11,20),(3,16,29),(9,49,88)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,27,49),(2,11,20),(9,49,88)); lvl=6; h,r-ind=1,1
        [3,3]((3,16,29),(5,27,49),(9,49,88)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,10),(5,27,49),(2,11,20)); lvl=6; h,r-ind=1,1
        [3,3]((3,16,29),(1,5,10),(5,27,49)); lvl=6; h,r-ind=1,1
    [4,3]((1,6,10),(2,11,19),(4,22,39),(3,17,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,19),(4,22,39),(5,28,49)); lvl=5; h,r-ind=1,1
      [3,3]((3,17,30),(4,22,39),(5,28,49)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(3,17,30),(5,28,49)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,10),(2,11,19),(5,28,49)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,10),(4,22,37),(2,11,19)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,9),(1,5,10),(3,16,29)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,9),(2,11,19),(3,16,29),(4,22,39)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,19),(4,22,39),(5,27,48)); lvl=5; h,r-ind=1,1
      [3,3]((3,16,29),(4,22,39),(5,27,48)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,9),(2,11,19),(5,27,48)); lvl=5; h,r-ind=1,1
      [3,3]((3,16,29),(1,5,9),(5,27,48)); lvl=5; h,r-ind=1,1
    [3,3]((4,22,37),(1,5,9),(2,11,19)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,12),(2,12,21),(5,27,57),(1,5,10)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [3,3]((1,6,11),(2,12,21),(1,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,11),(3,16,32),(1,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,23),(3,16,32),(1,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,23),(5,27,57),(1,5,10)); lvl=4; h,r-ind=1,1
    [4,3]((1,6,12),(1,6,11),(2,11,23),(3,16,32)); lvl=4; h,r-ind=1,2
      [3,3]((1,6,11),(3,16,32),(2,11,22)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,23),(3,16,32),(2,11,22)); lvl=5; h,r-ind=1,1
      [3,3]((1,6,12),(1,6,11),(2,11,22)); lvl=5; h,r-ind=1,1
      [3,3]((2,11,23),(1,6,12),(2,11,22)); lvl=5; h,r-ind=1,1
  [5,3]((5,27,57),(3,16,34),(1,5,10),(2,10,21),(11,57,121)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((5,26,55),(2,10,21),(11,57,121)); lvl=4; h,r-ind=1,1
    [3,3]((3,16,34),(5,26,55),(11,57,121)); lvl=4; h,r-ind=1,1
    [3,3]((3,16,34),(5,27,57),(7,37,78)); lvl=4; h,r-ind=1,1
    [4,3]((5,26,55),(6,31,65),(9,47,99),(2,10,21)); lvl=4; h,r-ind=1,1
      [3,3]((11,57,120),(6,31,65),(9,47,99)); lvl=5; h,r-ind=1,1
      [3,3]((5,26,55),(11,57,120),(9,47,99)); lvl=5; h,r-ind=1,1
      [3,3]((2,10,21),(11,57,120),(6,31,65)); lvl=5; h,r-ind=1,1
      [3,3]((5,26,55),(2,10,21),(11,57,120)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,10),(6,31,65),(2,10,21)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,10),(7,37,78),(6,31,65),(9,47,99)); lvl=4; h,r-ind=1,1
      [4,3]((4,21,44),(19,99,208),(7,37,78),(9,47,99)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((13,68,143),(9,47,99),(19,99,208)); lvl=6; h,r-ind=1,1
        [3,3]((4,21,44),(13,68,143),(19,99,208)); lvl=6; h,r-ind=1,1
        [3,3]((13,68,143),(7,37,78),(9,47,99)); lvl=6; h,r-ind=1,1
        [3,3]((4,21,44),(13,68,143),(7,37,78)); lvl=6; h,r-ind=1,1
      [3,3]((6,31,65),(19,99,208),(9,47,99)); lvl=5; h,r-ind=1,1
      [4,3]((1,5,10),(4,21,44),(6,31,65),(19,99,208)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((10,52,109),(4,21,44),(19,99,208)); lvl=6; h,r-ind=1,1
        [3,3]((10,52,109),(6,31,65),(19,99,208)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,10),(10,52,109),(6,31,65)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,10),(10,52,109),(4,21,44)); lvl=6; h,r-ind=1,1
    [3,3]((5,27,57),(1,5,10),(7,37,78)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
    [4,3]((3,16,34),(7,37,78),(5,26,55),(9,47,99)); lvl=4; h,r-ind=1,1
      [3,3]((12,63,133),(9,47,99),(7,37,78)); lvl=5; h,r-ind=1,1
      [3,3]((3,16,34),(12,63,133),(7,37,78)); lvl=5; h,r-ind=1,1
      [3,3]((5,26,55),(12,63,133),(9,47,99)); lvl=5; h,r-ind=1,1
      [3,3]((3,16,34),(5,26,55),(12,63,133)); lvl=5; h,r-ind=1,1
  [3,3]((2,10,21),(6,31,66),(11,57,121)); lvl=3; h,r-ind=1,1
  [4,3]((7,37,79),(3,16,34),(6,31,66),(11,57,121)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((9,47,100),(11,57,121),(3,16,34)); lvl=4; h,r-ind=1,1
    [3,3]((7,37,79),(9,47,100),(3,16,34)); lvl=4; h,r-ind=1,1
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      [3,3]((6,31,66),(9,47,100),(11,57,121)); lvl=4; h,r-ind=1,1
      [3,3]((7,37,79),(6,31,66),(9,47,100)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,18),(4,22,37),(1,5,9)); lvl=3; h,r-ind=1,1
  [4,3]((6,31,66),(10,51,110),(4,20,43),(2,10,21)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((8,41,88),(3,15,32),(4,20,43),(10,51,110)); lvl=3; h,r-ind=1,1
      [3,3]((4,20,43),(3,15,32),(16,81,174)); lvl=4; h,r-ind=1,1
      [4,3]((9,46,99),(8,41,88),(3,15,32),(16,81,174)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((12,61,131),(8,41,88),(3,15,32)); lvl=5; h,r-ind=1,1
        [3,3]((16,81,174),(12,61,131),(3,15,32)); lvl=5; h,r-ind=1,1
        [3,3]((9,46,99),(16,81,174),(12,61,131)); lvl=5; h,r-ind=1,1
        [3,3]((9,46,99),(12,61,131),(8,41,88)); lvl=5; h,r-ind=1,1
      [4,3]((10,51,110),(9,46,99),(4,20,43),(16,81,174)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((9,46,99),(13,66,142),(16,81,174)); lvl=5; h,r-ind=1,1
        [3,3]((4,20,43),(13,66,142),(16,81,174)); lvl=5; h,r-ind=1,1
        [3,3]((10,51,110),(4,20,43),(13,66,142)); lvl=5; h,r-ind=1,1
        [3,3]((10,51,110),(9,46,99),(13,66,142)); lvl=5; h,r-ind=1,1
    [4,3]((6,31,66),(8,41,88),(2,10,21),(3,15,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,15,32),(2,10,21),(12,61,130)); lvl=4; h,r-ind=1,1
      [4,3]((7,36,77),(6,31,66),(2,10,21),(12,61,130)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((9,46,98),(6,31,66),(2,10,21)); lvl=5; h,r-ind=1,1
        [3,3]((12,61,130),(9,46,98),(2,10,21)); lvl=5; h,r-ind=1,1
        [3,3]((7,36,77),(12,61,130),(9,46,98)); lvl=5; h,r-ind=1,1
        [3,3]((7,36,77),(9,46,98),(6,31,66)); lvl=5; h,r-ind=1,1
      [4,3]((8,41,88),(7,36,77),(3,15,32),(12,61,130)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,36,77),(12,61,130),(10,51,109)); lvl=5; h,r-ind=1,1
        [3,3]((3,15,32),(12,61,130),(10,51,109)); lvl=5; h,r-ind=1,1
        [3,3]((8,41,88),(3,15,32),(10,51,109)); lvl=5; h,r-ind=1,1
        [3,3]((8,41,88),(7,36,77),(10,51,109)); lvl=5; h,r-ind=1,1
  [3,3]((10,51,110),(11,56,121),(4,20,43)); lvl=2; h,r-ind=1,1
  [3,3]((6,31,67),(10,51,110),(11,56,121)); lvl=2; h,r-ind=1,1
  [4,3]((6,31,67),(7,37,79),(6,31,66),(10,51,110)); lvl=2; h,r-ind=1,1
    [3,3]((4,21,45),(7,37,79),(6,31,66)); lvl=3; h,r-ind=1,1
    [4,3]((9,47,101),(4,21,45),(8,41,88),(6,31,66)); lvl=3; h,r-ind=1,1
      [4,3]((4,21,45),(7,36,77),(6,31,66),(16,83,178)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((11,57,122),(7,36,77),(6,31,66)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,45),(11,57,122),(6,31,66)); lvl=5; h,r-ind=1,1
        [3,3]((16,83,178),(11,57,122),(7,36,77)); lvl=5; h,r-ind=1,1
        [3,3]((4,21,45),(16,83,178),(11,57,122)); lvl=5; h,r-ind=1,1
      [3,3]((9,47,101),(4,21,45),(16,83,178)); lvl=4; h,r-ind=1,1
      [3,3]((8,41,88),(7,36,77),(16,83,178)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((9,47,101),(8,41,88),(16,83,178)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((6,31,67),(9,47,101),(10,51,110),(8,41,88)); lvl=3; h,r-ind=1,1
      [3,3]((5,26,56),(9,47,101),(8,41,88)); lvl=4; h,r-ind=1,1
      [3,3]((5,26,56),(9,46,99),(8,41,88)); lvl=4; h,r-ind=1,1
      [4,3]((6,31,67),(5,26,56),(10,51,110),(9,46,99)); lvl=4; h,r-ind=1,1
        [3,3]((15,77,166),(9,46,99),(5,26,56)); lvl=5; h,r-ind=1,1
        [3,3]((6,31,67),(15,77,166),(5,26,56)); lvl=5; h,r-ind=1,1
        [3,3]((10,51,110),(15,77,166),(9,46,99)); lvl=5; h,r-ind=1,1
        [3,3]((6,31,67),(10,51,110),(15,77,166)); lvl=5; h,r-ind=1,1
[6,3]((3,7,15),(12,61,132),(2,7,14),(1,1,2),(4,20,43),(11,56,121)); lvl=1; h,r-ind=1,1
  [4,3]((3,7,15),(15,68,147),(2,7,15),(7,32,69)); lvl=2; h,r-ind=3,1; alert-h-inc
    [3,3]((3,13,28),(7,32,69),(11,50,108)); lvl=3; h,r-ind=1,1
    [3,3]((7,31,67),(3,13,28),(11,50,108)); lvl=3; h,r-ind=1,1
    [3,3]((15,68,147),(7,31,67),(11,50,108)); lvl=3; h,r-ind=1,1
    [3,3]((7,31,67),(11,44,95),(3,13,28)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((3,7,15),(2,7,15),(11,44,95),(3,13,28)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,28),(2,7,15),(12,46,99)); lvl=4; h,r-ind=1,1
      [4,3]((3,7,15),(9,32,69),(2,7,15),(12,46,99)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,7,15),(15,53,114),(12,46,99),(7,26,56)); lvl=5; h,r-ind=1,3
          [3,3]((15,53,114),(9,33,71),(7,26,56)); lvl=6; h,r-ind=1,1
          [3,3]((12,46,99),(9,33,71),(7,26,56)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,15),(12,46,99),(9,33,71)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,15),(15,53,114),(9,33,71)); lvl=6; h,r-ind=1,1
        [3,3]((4,13,28),(15,53,114),(7,26,56)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((4,13,28),(9,32,69),(7,26,56)); lvl=5; h,r-ind=1,1
        [4,3]((2,7,15),(3,7,15),(4,13,28),(15,53,114)); lvl=5; h,r-ind=1,3
          [3,3]((3,7,15),(6,20,43),(4,13,28)); lvl=6; h,r-ind=1,1
          [3,3]((15,53,114),(6,20,43),(4,13,28)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,15),(15,53,114),(6,20,43)); lvl=6; h,r-ind=1,1
          [3,3]((2,7,15),(3,7,15),(6,20,43)); lvl=6; h,r-ind=1,1
      [4,3]((9,32,69),(5,19,41),(3,13,28),(12,46,99)); lvl=4; h,r-ind=1,1
        [3,3]((15,58,125),(3,13,28),(5,19,41)); lvl=5; h,r-ind=1,1
        [4,3]((7,26,56),(9,32,69),(15,58,125),(5,19,41)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((12,45,97),(9,32,69),(5,19,41)); lvl=6; h,r-ind=1,1
          [3,3]((15,58,125),(12,45,97),(5,19,41)); lvl=6; h,r-ind=1,1
          [3,3]((7,26,56),(15,58,125),(12,45,97)); lvl=6; h,r-ind=1,1
          [3,3]((7,26,56),(12,45,97),(9,32,69)); lvl=6; h,r-ind=1,1
        [3,3]((7,26,56),(15,58,125),(3,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((7,26,56),(12,46,99),(3,13,28)); lvl=5; h,r-ind=1,1
      [3,3]((5,19,41),(11,44,95),(3,13,28)); lvl=4; h,r-ind=1,1
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[4,3]((2,8,17),(11,49,105),(2,7,15),(7,32,69)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
  [3,3]((3,13,28),(6,27,58),(7,32,69)); lvl=3; h,r-ind=1,1
  [3,3]((3,13,28),(13,56,120),(6,27,58)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
  [4,3]((2,8,17),(3,13,28),(2,7,15),(13,56,120)); lvl=3; h,r-ind=1,3
    [3,3]((3,13,28),(5,21,45),(2,7,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,17),(5,21,45),(2,7,15)); lvl=4; h,r-ind=1,1
    [3,3]((13,56,120),(3,13,28),(5,21,45)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,17),(13,56,120),(5,21,45)); lvl=4; h,r-ind=1,1
  [4,3]((2,8,17),(13,56,120),(6,27,58),(11,49,105)); lvl=3; h,r-ind=1,3
    [3,3]((13,56,120),(8,35,75),(6,27,58)); lvl=4; h,r-ind=1,1
    [3,3]((11,49,105),(8,35,75),(6,27,58)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,17),(11,49,105),(8,35,75)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,17),(13,56,120),(8,35,75)); lvl=4; h,r-ind=1,1
[4,3]((5,25,54),(11,49,105),(3,14,30),(7,32,69)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
  [4,3]((6,27,58),(16,74,159),(3,14,30),(11,49,105)); lvl=3; h,r-ind=1,3
    [3,3]((9,41,88),(3,14,30),(16,74,159)); lvl=4; h,r-ind=1,1
    [3,3]((6,27,58),(9,41,88),(16,74,159)); lvl=4; h,r-ind=1,1
    [3,3]((11,49,105),(9,41,88),(3,14,30)); lvl=4; h,r-ind=1,1
    [3,3]((6,27,58),(11,49,105),(9,41,88)); lvl=4; h,r-ind=1,1
  [4,3]((5,25,54),(16,74,159),(4,19,41),(3,14,30)); lvl=3; h,r-ind=1,3
    [3,3]((7,33,71),(4,19,41),(16,74,159)); lvl=4; h,r-ind=1,1
    [3,3]((7,33,71),(3,14,30),(16,74,159)); lvl=4; h,r-ind=1,1
    [3,3]((5,25,54),(7,33,71),(3,14,30)); lvl=4; h,r-ind=1,1
    [3,3]((5,25,54),(7,33,71),(4,19,41)); lvl=4; h,r-ind=1,1
  [3,3]((6,27,58),(16,74,159),(4,19,41)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
  [3,3]((6,27,58),(7,32,69),(4,19,41)); lvl=3; h,r-ind=1,1
[4,3]((2,9,19),(4,20,43),(5,25,54),(3,14,30)); lvl=2; h,r-ind=1,1
  [3,3]((7,34,73),(5,25,54),(4,20,43)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,19),(7,34,73),(4,20,43)); lvl=3; h,r-ind=1,1
  [3,3]((3,14,30),(7,34,73),(5,25,54)); lvl=3; h,r-ind=1,1
  [3,3]((2,9,19),(3,14,30),(7,34,73)); lvl=3; h,r-ind=1,1
[5,3]((1,3,6),(2,8,17),(2,9,19),(11,49,105),(3,14,30)); lvl=2; h,r-ind=1,1
  [3,3]((3,14,30),(5,22,47),(11,49,105)); lvl=3; h,r-ind=1,1
  [3,3]((2,8,17),(5,22,47),(11,49,105)); lvl=3; h,r-ind=1,1
  [3,3]((2,8,17),(1,3,6),(6,25,53)); lvl=3; h,r-ind=1,1
  [4,3]((7,31,66),(9,39,83),(3,14,30),(5,22,47)); lvl=3; h,r-ind=1,1
    [3,3]((9,39,83),(5,22,47),(12,53,113)); lvl=4; h,r-ind=1,1
    [3,3]((3,14,30),(5,22,47),(12,53,113)); lvl=4; h,r-ind=1,1
    [3,3]((7,31,66),(9,39,83),(12,53,113)); lvl=4; h,r-ind=1,1
    [3,3]((3,14,30),(7,31,66),(12,53,113)); lvl=4; h,r-ind=1,1
  [4,3]((2,8,17),(6,25,53),(9,39,83),(5,22,47)); lvl=3; h,r-ind=1,1
    [3,3]((11,47,100),(9,39,83),(6,25,53)); lvl=4; h,r-ind=1,1
    [3,3]((2,8,17),(11,47,100),(6,25,53)); lvl=4; h,r-ind=1,1
    [3,3]((5,22,47),(2,8,17),(11,47,100)); lvl=4; h,r-ind=1,1
    [3,3]((5,22,47),(11,47,100),(9,39,83)); lvl=4; h,r-ind=1,1
  [3,3]((2,9,19),(7,31,66),(3,14,30)); lvl=3; h,r-ind=1,1
  [5,3]((1,3,6),(2,9,19),(6,25,53),(7,31,66),(9,39,83)); lvl=3; h,r-ind=1,1
    [3,3]((9,39,83),(7,31,66),(4,17,36)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,19),(7,31,66),(4,17,36)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(2,9,19),(4,17,36)); lvl=4; h,r-ind=1,1
    [3,3]((6,25,53),(9,39,83),(4,17,36)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(6,25,53),(4,17,36)); lvl=4; h,r-ind=1,1
[3,3]((2,7,14),(1,3,6),(2,9,19)); lvl=2; h,r-ind=1,1
[4,3]((12,61,132),(5,25,54),(15,68,147),(7,32,69)); lvl=2; h,r-ind=3,1; alert-h-inc
  [3,3]((11,50,108),(7,32,69),(4,19,41)); lvl=3; h,r-ind=1,1
  [3,3]((8,37,80),(11,50,108),(4,19,41)); lvl=3; h,r-ind=1,1
  [3,3]((8,37,80),(19,92,199),(4,19,41)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
  [4,3]((12,61,132),(19,92,199),(5,25,54),(4,19,41)); lvl=3; h,r-ind=1,1
    [3,3]((4,19,41),(10,49,106),(19,92,199)); lvl=4; h,r-ind=1,1
    [4,3]((4,19,41),(21,104,225),(24,118,255),(10,49,106)); lvl=4; h,r-ind=1,1
      [4,3]((10,49,106),(15,74,160),(29,142,307),(21,104,225)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((25,123,266),(15,74,160),(29,142,307)); lvl=6; h,r-ind=1,1
        [3,3]((10,49,106),(25,123,266),(29,142,307)); lvl=6; h,r-ind=1,1
        [3,3]((25,123,266),(21,104,225),(15,74,160)); lvl=6; h,r-ind=1,1
        [3,3]((10,49,106),(25,123,266),(21,104,225)); lvl=6; h,r-ind=1,1
      [3,3]((4,19,41),(15,74,160),(29,142,307)); lvl=5; h,r-ind=1,1
      [3,3]((10,49,106),(4,19,41),(29,142,307)); lvl=5; h,r-ind=1,1
      [3,3]((4,19,41),(24,118,255),(15,74,160)); lvl=5; h,r-ind=1,1
    [4,3]((5,25,54),(12,61,132),(21,104,225),(24,118,255)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-...
        ...inc
      [3,3]((15,74,160),(21,104,225),(11,55,119)); lvl=5; h,r-ind=1,1
      [3,3]((15,74,160),(36,179,387),(11,55,119)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((5,25,54),(12,61,132),(36,179,387),(11,55,119)); lvl=5; h,r-ind=1,3
        [3,3]((12,61,132),(16,80,173),(11,55,119)); lvl=6; h,r-ind=1,1
        [3,3]((36,179,387),(16,80,173),(11,55,119)); lvl=6; h,r-ind=1,1
        [3,3]((5,25,54),(36,179,387),(16,80,173)); lvl=6; h,r-ind=1,1
        [3,3]((5,25,54),(12,61,132),(16,80,173)); lvl=6; h,r-ind=1,1
      [4,3]((5,25,54),(15,74,160),(24,118,255),(36,179,387)); lvl=5; h,r-ind=1,3
        [3,3]((24,118,255),(20,99,214),(15,74,160)); lvl=6; h,r-ind=1,1
        [3,3]((36,179,387),(20,99,214),(15,74,160)); lvl=6; h,r-ind=1,1
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            [3,3]((5,25,54),(36,179,387),(20,99,214)); lvl=6; h,r-ind=1,1
            [3,3]((5,25,54),(24,118,255),(20,99,214)); lvl=6; h,r-ind=1,1
        [3,3]((5,25,54),(4,19,41),(24,118,255)); lvl=4; h,r-ind=1,1
      [3,3]((15,68,147),(8,37,80),(11,50,108)); lvl=3; h,r-ind=1,1
    [3,3]((11,56,121),(12,61,132),(5,25,54)); lvl=2; h,r-ind=1,1
    [3,3]((4,20,43),(11,56,121),(5,25,54)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(3,7,15),(2,7,15)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,10),(2,8,17),(1,1,2),(2,7,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,17),(2,7,15),(5,17,36)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,4),(1,1,2),(2,7,15),(5,17,36)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,9,19),(1,1,2),(2,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((5,17,36),(3,9,19),(2,7,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(5,17,36),(3,9,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(3,9,19),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,8,17),(5,17,36)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(1,2,4),(2,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,10),(2,8,17)); lvl=2; h,r-ind=1,1
  [4,3]((2,11,24),(6,31,67),(12,61,132),(11,56,121)); lvl=1; h,r-ind=1,1
    [3,3]((11,56,121),(6,31,67),(24,123,266)); lvl=2; h,r-ind=1,1
    [4,3]((7,36,78),(2,11,24),(6,31,67),(24,123,266)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,31,67),(2,11,24),(13,67,145)); lvl=3; h,r-ind=1,1
      [3,3]((7,36,78),(2,11,24),(13,67,145)); lvl=3; h,r-ind=1,1
      [3,3]((24,123,266),(6,31,67),(13,67,145)); lvl=3; h,r-ind=1,1
      [3,3]((7,36,78),(24,123,266),(13,67,145)); lvl=3; h,r-ind=1,1
    [4,3]((12,61,132),(7,36,78),(11,56,121),(24,123,266)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((18,92,199),(7,36,78),(24,123,266)); lvl=3; h,r-ind=1,1
      [3,3]((11,56,121),(18,92,199),(24,123,266)); lvl=3; h,r-ind=1,1
      [3,3]((12,61,132),(18,92,199),(7,36,78)); lvl=3; h,r-ind=1,1
      [3,3]((11,56,121),(12,61,132),(18,92,199)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(3,7,15),(1,1,2)); lvl=1; h,r-ind=1,1
[4,3]((2,11,24),(1,0,0),(3,7,15),(12,61,132)); lvl=1; h,r-ind=3,3
  [4,3]((4,18,39),(2,6,13),(3,7,15),(15,68,147)); lvl=2; h,r-ind=1,1
    [4,3]((3,12,26),(11,44,95),(2,6,13),(3,7,15)); lvl=3; h,r-ind=1,1
      [4,3]((2,6,13),(12,43,93),(3,7,15),(9,32,69)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((7,25,54),(4,13,28),(9,32,69)); lvl=5; h,r-ind=1,1
        [3,3]((15,50,108),(7,25,54),(4,13,28)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((3,7,15),(2,6,13),(15,50,108),(4,13,28)); lvl=5; h,r-ind=1,3
          [3,3]((2,6,13),(15,50,108),(6,19,41)); lvl=6; h,r-ind=1,1
          [3,3]((4,13,28),(15,50,108),(6,19,41)); lvl=6; h,r-ind=1,1
          [3,3]((3,7,15),(2,6,13),(6,19,41)); lvl=6; h,r-ind=1,1
          [3,3]((4,13,28),(3,7,15),(6,19,41)); lvl=6; h,r-ind=1,1
        [4,3]((2,6,13),(15,50,108),(7,25,54),(12,43,93)); lvl=5; h,r-ind=1,3
          [3,3]((7,25,54),(9,31,67),(15,50,108)); lvl=6; h,r-ind=1,1
          [3,3]((2,6,13),(9,31,67),(15,50,108)); lvl=6; h,r-ind=1,1
          [3,3]((12,43,93),(7,25,54),(9,31,67)); lvl=6; h,r-ind=1,1
          [3,3]((2,6,13),(12,43,93),(9,31,67)); lvl=6; h,r-ind=1,1
      [4,3]((3,12,26),(12,43,93),(5,19,41),(9,32,69)); lvl=4; h,r-ind=1,1
        [4,3]((5,19,41),(7,25,54),(15,56,121),(9,32,69)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((7,25,54),(15,56,121),(12,44,95)); lvl=6; h,r-ind=1,1
          [3,3]((5,19,41),(15,56,121),(12,44,95)); lvl=6; h,r-ind=1,1
          [3,3]((9,32,69),(7,25,54),(12,44,95)); lvl=6; h,r-ind=1,1
          [3,3]((5,19,41),(9,32,69),(12,44,95)); lvl=6; h,r-ind=1,1
        [3,3]((3,12,26),(5,19,41),(15,56,121)); lvl=5; h,r-ind=1,1
        [3,3]((3,12,26),(7,25,54),(15,56,121)); lvl=5; h,r-ind=1,1
        [3,3]((3,12,26),(12,43,93),(7,25,54)); lvl=5; h,r-ind=1,1
      [3,3]((3,12,26),(5,19,41),(11,44,95)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,26),(2,6,13),(12,43,93)); lvl=4; h,r-ind=1,1
    [4,3]((4,18,39),(3,12,26),(7,31,67),(11,44,95)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,26),(6,25,54),(11,44,95)); lvl=4; h,r-ind=1,1
      [3,3]((3,12,26),(13,55,119),(6,25,54)); lvl=4; h,r-ind=1,1
      [4,3]((4,18,39),(7,31,67),(13,55,119),(6,25,54)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((10,43,93),(6,25,54),(7,31,67)); lvl=5; h,r-ind=1,1
        [3,3]((4,18,39),(10,43,93),(7,31,67)); lvl=5; h,r-ind=1,1
        [3,3]((13,55,119),(10,43,93),(6,25,54)); lvl=5; h,r-ind=1,1
        [3,3]((4,18,39),(13,55,119),(10,43,93)); lvl=5; h,r-ind=1,1
      [3,3]((4,18,39),(3,12,26),(13,55,119)); lvl=4; h,r-ind=1,1
    [3,3]((4,18,39),(15,68,147),(7,31,67)); lvl=3; h,r-ind=1,1
  [4,3]((7,36,78),(12,61,132),(4,18,39),(15,68,147)); lvl=2; h,r-ind=3,1
    [3,3]((4,18,39),(8,37,80),(15,68,147)); lvl=3; h,r-ind=1,1
    [4,3]((4,18,39),(11,54,117),(8,37,80),(19,92,199)); lvl=3; h,r-ind=3,1
      [3,3]((5,24,52),(11,54,117),(15,73,158)); lvl=4; h,r-ind=1,1
      [3,3]((5,24,52),(9,43,93),(15,73,158)); lvl=4; h,r-ind=1,1
      [3,3]((9,43,93),(19,92,199),(15,73,158)); lvl=4; h,r-ind=1,1
      [4,3]((4,18,39),(5,24,52),(9,43,93),(8,37,80)); lvl=4; h,r-ind=1,1
        [3,3]((13,61,132),(5,24,52),(9,43,93)); lvl=5; h,r-ind=1,1
        [3,3]((8,37,80),(13,61,132),(9,43,93)); lvl=5; h,r-ind=1,1
        [3,3]((4,18,39),(8,37,80),(13,61,132)); lvl=5; h,r-ind=1,1
        [3,3]((4,18,39),(13,61,132),(5,24,52)); lvl=5; h,r-ind=1,1
    [4,3]((11,54,117),(7,36,78),(19,92,199),(12,61,132)); lvl=3; h,r-ind=1,1
      [4,3]((6,30,65),(7,36,78),(21,104,225),(12,61,132)); lvl=4; h,r-ind=1,1
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          [4,3]((11,55,119),(24,121,262),(7,36,78),(12,61,132)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((7,36,78),(24,121,262),(18,91,197)); lvl=6; h,r-ind=1,1
            [3,3]((11,55,119),(24,121,262),(18,91,197)); lvl=6; h,r-ind=1,1
            [3,3]((12,61,132),(7,36,78),(18,91,197)); lvl=6; h,r-ind=1,1
            [3,3]((11,55,119),(12,61,132),(18,91,197)); lvl=6; h,r-ind=1,1
          [3,3]((6,30,65),(11,55,119),(24,121,262)); lvl=5; h,r-ind=1,1
          [3,3]((6,30,65),(11,55,119),(21,104,225)); lvl=5; h,r-ind=1,1
          [3,3]((6,30,65),(24,121,262),(7,36,78)); lvl=5; h,r-ind=1,1
        [3,3]((6,30,65),(10,49,106),(21,104,225)); lvl=4; h,r-ind=1,1
        [3,3]((15,73,158),(6,30,65),(10,49,106)); lvl=4; h,r-ind=1,1
        [3,3]((19,92,199),(15,73,158),(10,49,106)); lvl=4; h,r-ind=1,1
        [3,3]((11,54,117),(15,73,158),(6,30,65)); lvl=4; h,r-ind=1,1
    [3,3]((2,11,24),(7,36,78),(4,18,39)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((2,11,24),(4,18,39),(2,6,13)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,0,0),(2,6,13),(3,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,24),(1,0,0),(2,6,13)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,6,12),(1,6,7)); lvl=1; h,r-ind=5,5; optimized-h
[3,3]((2,11,24),(1,6,12),(6,31,67)); lvl=1; h,r-ind=5,5; optimized-h
[4,3]((0,1,0),(2,11,12),(1,6,7),(2,11,13)); lvl=1; h,r-ind=1,1
    [4,3]((1,6,6),(2,11,12),(2,11,13),(4,23,26)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,11,12),(3,17,19),(2,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,23,26),(3,17,19),(2,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(2,11,12),(3,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,23,26),(1,6,6),(3,17,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,7),(2,11,13),(4,23,26)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,6,7),(1,6,6),(4,23,26)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,12,13),(1,6,7),(4,23,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(2,12,13),(4,23,26)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,12,13),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(0,1,0),(2,12,13)); lvl=3; h,r-ind=1,1
[6,3]((2,7,14),(1,1,2),(2,2,3),(2,11,12),(2,11,13),(1,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,6),(2,5,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(1,2,3),(1,1,2),(2,5,10)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,3),(1,1,2),(1,2,4),(3,7,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,4,7),(1,1,2),(1,2,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(2,4,7),(1,2,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(3,7,12),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,4,7),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,4),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,10),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,3),(3,7,12)); lvl=3; h,r-ind=1,1
    [4,3]((4,14,21),(1,3,5),(2,7,9),(1,2,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,3,5),(1,3,4),(1,2,3),(5,16,24)); lvl=3; h,r-ind=1,3
        [3,3]((2,6,9),(1,3,4),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,6,9),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,24),(2,6,9),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(5,16,24),(2,6,9)); lvl=4; h,r-ind=1,1
      [4,3]((4,14,21),(2,7,10),(1,3,5),(5,16,24)); lvl=3; h,r-ind=1,3
        [3,3]((2,7,10),(5,16,24),(3,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(5,16,24),(3,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,21),(2,7,10),(3,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,14,21),(3,10,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,10),(1,3,4),(5,16,24)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((2,7,10),(2,7,9),(1,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,3),(4,13,15),(2,7,9),(1,2,3)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((3,10,12),(2,7,9),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,10,12),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,11),(2,6,7),(1,3,4)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((2,2,3),(1,2,3),(4,9,11),(1,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,3),(1,3,4),(5,11,15)); lvl=4; h,r-ind=1,1
        [4,3]((4,7,9),(2,4,5),(1,3,4),(5,11,15)); lvl=4; h,r-ind=1,1
          [3,3]((6,13,17),(1,3,4),(2,4,5)); lvl=5; h,r-ind=1,1
          [4,3]((4,7,9),(6,13,17),(3,6,8),(2,4,5)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((3,6,8),(5,10,13),(6,13,17)); lvl=6; h,r-ind=1,1
            [3,3]((2,4,5),(5,10,13),(6,13,17)); lvl=6; h,r-ind=1,1
            [3,3]((4,7,9),(3,6,8),(5,10,13)); lvl=6; h,r-ind=1,1
            [3,3]((2,4,5),(4,7,9),(5,10,13)); lvl=6; h,r-ind=1,1
          [3,3]((6,13,17),(3,6,8),(1,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((5,11,15),(3,6,8),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,11),(2,4,5),(1,3,4)); lvl=4; h,r-ind=1,1
        [4,3]((2,2,3),(4,7,9),(1,2,3),(5,11,15)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((1,2,3),(7,13,18),(5,11,15),(3,6,8)); lvl=5; h,r-ind=1,3
            [3,3]((7,13,18),(4,8,11),(3,6,8)); lvl=6; h,r-ind=1,1
            [3,3]((5,11,15),(4,8,11),(3,6,8)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,3),(5,11,15),(4,8,11)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,3),(7,13,18),(4,8,11)); lvl=6; h,r-ind=1,1
          [3,3]((2,3,4),(7,13,18),(3,6,8)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [3,3]((2,3,4),(4,7,9),(3,6,8)); lvl=5; h,r-ind=1,1
          [4,3]((1,2,3),(2,2,3),(2,3,4),(7,13,18)); lvl=5; h,r-ind=1,3
            [3,3]((3,5,7),(2,3,4),(2,2,3)); lvl=6; h,r-ind=1,1
```

```
            [3,3]((1,2,3),(3,5,7),(2,2,3)); lvl=6; h,r-ind=1,1
            [3,3]((7,13,18),(3,5,7),(2,3,4)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,3),(7,13,18),(3,5,7)); lvl=6; h,r-ind=1,1
      [3,3]((2,6,7),(3,10,12),(4,13,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,6),(2,11,12),(4,13,15),(2,7,9)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((3,10,12),(2,7,8),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,10,12),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,9),(3,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,8),(4,17,19)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((1,5,6),(1,4,5),(2,11,12),(4,17,19)); lvl=3; h,r-ind=1,1
        [4,3]((1,4,5),(2,9,10),(4,19,21),(5,23,27)); lvl=4; h,r-ind=1,1
          [4,3]((3,14,16),(2,9,10),(4,19,21),(6,27,31)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((5,23,26),(2,9,10),(4,19,21)); lvl=6; h,r-ind=1,1
            [3,3]((3,14,16),(5,23,26),(4,19,21)); lvl=6; h,r-ind=1,1
            [3,3]((6,27,31),(5,23,26),(2,9,10)); lvl=6; h,r-ind=1,1
            [3,3]((3,14,16),(6,27,31),(5,23,26)); lvl=6; h,r-ind=1,1
          [3,3]((1,4,5),(3,14,16),(6,27,31)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(3,14,16),(5,23,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(2,9,10),(6,27,31)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,6),(2,11,12),(4,19,21),(5,23,27)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [4,3]((1,5,6),(7,34,39),(2,10,11),(2,11,12)); lvl=5; h,r-ind=1,3
            [3,3]((3,15,17),(7,34,39),(2,10,11)); lvl=6; h,r-ind=1,1
            [3,3]((2,11,12),(3,15,17),(2,10,11)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,6),(2,11,12),(3,15,17)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,6),(3,15,17),(7,34,39)); lvl=6; h,r-ind=1,1
          [3,3]((7,34,39),(3,14,16),(2,10,11)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [3,3]((3,14,16),(4,19,21),(2,10,11)); lvl=5; h,r-ind=1,1
          [4,3]((1,5,6),(7,34,39),(3,14,16),(5,23,27)); lvl=5; h,r-ind=1,3
            [3,3]((7,34,39),(4,19,22),(3,14,16)); lvl=6; h,r-ind=1,1
            [3,3]((5,23,27),(4,19,22),(3,14,16)); lvl=6; h,r-ind=1,1
            [3,3]((1,5,6),(7,34,39),(4,19,22)); lvl=6; h,r-ind=1,1
            [3,3]((5,23,27),(1,5,6),(4,19,22)); lvl=6; h,r-ind=1,1
        [3,3]((1,5,6),(1,4,5),(5,23,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(4,17,19),(2,9,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,2,3),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [5,3]((1,4,7),(1,4,6),(4,14,21),(1,3,5),(1,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,14,21),(2,7,11),(1,4,6)); lvl=3; h,r-ind=1,1
      [4,3]((4,14,23),(3,11,18),(2,7,11),(1,4,6)); lvl=3; h,r-ind=1,1
        [3,3]((5,18,29),(1,4,6),(3,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,23),(5,18,29),(3,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,11),(5,18,29),(1,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,23),(2,7,11),(5,18,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(3,11,18),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(4,14,21),(2,7,11)); lvl=3; h,r-ind=1,1
      [4,3]((3,10,17),(4,14,23),(1,3,5),(2,7,11)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,11),(4,14,23),(5,17,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,17),(4,14,23),(5,17,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(3,10,17),(5,17,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(2,7,11),(5,17,28)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,17),(1,3,6),(1,3,5)); lvl=3; h,r-ind=1,1
      [5,3]((1,4,7),(3,10,17),(4,14,23),(3,11,18),(1,3,6)); lvl=3; h,r-ind=1,1
        [3,3]((3,11,18),(1,4,7),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(1,4,7),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,23),(3,11,18),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,17),(4,14,23),(2,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(3,10,17),(2,7,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,4,7),(2,7,14),(1,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,7),(1,5,7),(1,4,6),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,7),(1,5,6),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,5,6),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(1,5,7),(2,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(1,4,7),(2,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(1,5,6),(2,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(2,11,12),(2,11,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,6),(1,5,6),(4,14,21),(2,7,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((1,4,5),(2,7,10),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(5,19,27),(2,7,10)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,4,6),(4,14,21),(5,19,27),(2,7,10)); lvl=3; h,r-ind=1,3
        [3,3]((4,14,21),(2,7,10),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,19,27),(2,7,10),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(5,19,27),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(4,14,21),(3,11,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,6),(1,5,6),(1,4,5),(5,19,27)); lvl=3; h,r-ind=1,3
        [3,3]((2,8,11),(1,5,6),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((5,19,27),(2,8,11),(1,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(5,19,27),(2,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(2,8,11),(1,5,6)); lvl=4; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,2,3),(2,11,12)); lvl=1; h,r-ind=3,3
    [4,3]((1,3,3),(1,1,1),(2,2,3),(4,13,15)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,2),(4,9,11),(1,1,1),(2,2,3)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((1,1,1),(5,8,9),(2,2,3),(4,7,9)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,3,4),(3,5,6),(4,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,4),(7,10,12),(3,5,6)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,1,1),(2,2,3),(2,3,4),(7,10,12)); lvl=5; h,r-ind=1,3
          [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((7,10,12),(2,3,4),(3,4,5)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(7,10,12),(3,4,5)); lvl=6; h,r-ind=1,1
        [4,3]((1,1,1),(7,10,12),(3,5,6),(5,8,9)); lvl=5; h,r-ind=1,3
          [3,3]((4,6,7),(3,5,6),(7,10,12)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(4,6,7),(7,10,12)); lvl=6; h,r-ind=1,1
          [3,3]((5,8,9),(4,6,7),(3,5,6)); lvl=6; h,r-ind=1,1
          [3,3]((1,1,1),(5,8,9),(4,6,7)); lvl=6; h,r-ind=1,1
      [4,3]((1,2,2),(2,4,5),(5,8,9),(4,7,9)); lvl=4; h,r-ind=1,1
        [4,3]((6,11,13),(3,5,6),(2,4,5),(4,7,9)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((5,9,11),(4,7,9),(3,5,6)); lvl=6; h,r-ind=1,1
          [3,3]((6,11,13),(5,9,11),(3,5,6)); lvl=6; h,r-ind=1,1
          [3,3]((5,9,11),(2,4,5),(4,7,9)); lvl=6; h,r-ind=1,1
          [3,3]((6,11,13),(5,9,11),(2,4,5)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,2),(6,11,13),(3,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(3,5,6),(5,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(6,11,13),(2,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,2),(4,9,11),(2,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(1,1,1),(5,8,9)); lvl=4; h,r-ind=1,1
    [4,3]((1,3,3),(1,2,2),(2,6,7),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(4,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,11),(1,2,2),(2,5,6)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,3),(4,10,11),(2,6,7),(2,5,6)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,9),(4,10,11),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,7),(3,8,9),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(2,6,7),(3,8,9)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(3,8,9),(4,10,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,3),(4,10,11),(1,2,2)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,3),(4,13,15),(2,6,7)); lvl=3; h,r-ind=1,1
  [4,3]((2,11,12),(1,6,6),(1,3,3),(4,13,15)); lvl=2; h,r-ind=3,1
    [4,3]((2,11,12),(4,17,19),(1,6,6),(2,9,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(4,17,19),(3,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,10),(1,5,5),(3,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,5),(2,9,9),(3,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,10),(4,19,21),(1,5,5)); lvl=4; h,r-ind=1,1
      [4,3]((2,11,12),(4,19,21),(1,5,5),(1,6,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(2,10,11),(4,21,22)); lvl=5; h,r-ind=1,1
        [4,3]((1,6,6),(2,11,12),(2,10,11),(4,21,22)); lvl=5; h,r-ind=1,2; alert-r-inc
          [3,3]((3,16,17),(2,11,12),(2,10,11)); lvl=6; h,r-ind=1,1
          [3,3]((4,21,22),(3,16,17),(2,10,11)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,6),(4,21,22),(3,16,17)); lvl=6; h,r-ind=1,1
          [3,3]((1,6,6),(3,16,17),(2,11,12)); lvl=6; h,r-ind=1,1
        [3,3]((1,6,6),(1,5,5),(4,21,22)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,5),(4,19,21),(2,10,11)); lvl=5; h,r-ind=1,1
    [4,3]((4,17,19),(2,7,8),(1,3,3),(2,9,9)); lvl=3; h,r-ind=3,1
      [4,3]((2,8,9),(2,7,8),(1,4,4),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,7,8),(3,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((2,8,9),(2,7,8),(3,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(2,8,9),(3,11,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(1,3,3),(3,11,12)); lvl=5; h,r-ind=1,1
      [3,3]((3,13,14),(2,8,9),(1,4,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,9),(3,13,14),(1,4,4)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,14),(4,17,19),(2,8,9)); lvl=4; h,r-ind=1,1
    [3,3]((4,13,15),(2,7,8),(1,3,3)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(1,1,1)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((1,6,6),(0,1,0),(1,3,3)); lvl=2; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
[3,3]((2,7,14),(1,5,7),(4,20,43)); lvl=1; h,r-ind=45,15; alert-h-inc
  [4,3]((1,5,9),(1,4,8),(1,4,7),(1,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,8),(3,13,23),(1,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,8),(1,5,7),(3,13,23),(1,4,7)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,5,7),(1,4,7),(2,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((3,13,23),(1,4,7),(2,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(3,13,23),(2,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,8),(1,5,7),(2,9,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,5,9),(1,5,8),(1,4,8),(3,13,23)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,16),(1,5,8),(3,13,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(2,9,16),(3,13,23)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,9),(2,9,16),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,8),(1,5,9),(2,9,16)); lvl=4; h,r-ind=1,1
  [3,3]((1,5,9),(2,10,21),(1,4,8)); lvl=2; h,r-ind=3,3; optimized-h
  [4,3]((4,20,43),(2,9,19),(2,10,21),(1,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,19),(6,28,59),(1,4,8)); lvl=3; h,r-ind=1,1
    [4,3]((3,15,32),(2,10,21),(6,28,59),(1,4,8)); lvl=3; h,r-ind=1,2; alert-r-inc
```

```
        [3,3]((2,10,21),(4,19,40),(1,4,8)); lvl=4; h,r-ind=1,1
        [3,3]((6,28,59),(4,19,40),(1,4,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,15,32),(2,10,21),(4,19,40)); lvl=4; h,r-ind=1,1
        [3,3]((6,28,59),(3,15,32),(4,19,40)); lvl=4; h,r-ind=1,1
      [4,3]((4,20,43),(3,15,32),(2,9,19),(6,28,59)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,24,51),(3,15,32),(6,28,59)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,19),(5,24,51),(6,28,59)); lvl=4; h,r-ind=1,1
        [3,3]((4,20,43),(5,24,51),(3,15,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,19),(4,20,43),(5,24,51)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,14),(2,9,19),(1,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,14),(1,4,8),(1,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
```

24.26 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,13,24)); lvl=0; h,r-ind=24,288
  [3,3]((2,7,12),(1,6,11),(1,0,0)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((2,13,24),(1,6,11),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,7,12),(1,6,6),(1,0,0)); lvl=1; h,r-ind=30,30; alert-h-inc
    [4,3]((1,3,5),(2,6,9),(1,4,6),(2,9,12)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,6),(5,18,27),(2,9,12),(4,15,21)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,8,11),(4,15,21),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,11),(7,27,39),(3,11,16)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,4,6),(5,18,27),(7,27,39),(3,11,16)); lvl=4; h,r-ind=1,3
          [3,3]((3,11,16),(4,15,22),(5,18,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(4,15,22),(5,18,27)); lvl=5; h,r-ind=1,1
          [3,3]((7,27,39),(3,11,16),(4,15,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(7,27,39),(4,15,22)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,6),(2,9,12),(2,8,11),(7,27,39)); lvl=4; h,r-ind=1,3
          [3,3]((3,12,17),(2,9,12),(2,8,11)); lvl=5; h,r-ind=1,1
          [3,3]((7,27,39),(3,12,17),(2,8,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(7,27,39),(3,12,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,6),(3,12,17),(2,9,12)); lvl=5; h,r-ind=1,1
      [4,3]((1,3,5),(5,18,27),(2,6,9),(4,15,21)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,7,10),(3,11,16),(4,15,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,10),(7,24,36),(3,11,16)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,3,5),(5,18,27),(7,24,36),(3,11,16)); lvl=4; h,r-ind=1,3
          [3,3]((4,14,21),(3,11,16),(5,18,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,5),(4,14,21),(5,18,27)); lvl=5; h,r-ind=1,1
          [3,3]((7,24,36),(4,14,21),(3,11,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,5),(7,24,36),(4,14,21)); lvl=5; h,r-ind=1,1
        [4,3]((1,3,5),(2,6,9),(2,7,10),(7,24,36)); lvl=4; h,r-ind=1,3
          [3,3]((2,6,9),(2,7,10),(3,10,15)); lvl=5; h,r-ind=1,1
          [3,3]((7,24,36),(2,7,10),(3,10,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,5),(2,6,9),(3,10,15)); lvl=5; h,r-ind=1,1
          [3,3]((7,24,36),(1,3,5),(3,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,5),(1,4,6),(5,18,27)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,6),(2,6,9),(1,3,3),(2,9,12)); lvl=2; h,r-ind=9,3
      [4,3]((1,4,5),(4,15,21),(1,3,4),(2,6,9)); lvl=3; h,r-ind=1,1
        [4,3]((4,14,19),(2,7,10),(1,3,4),(2,6,9)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,10,14),(1,3,4),(2,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((3,10,14),(2,7,10),(2,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,19),(3,10,14),(2,7,10)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,19),(3,10,14),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(4,14,19),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(4,14,19),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(4,15,21),(2,7,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,6),(1,4,5),(2,9,12),(4,15,21)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,5),(2,8,11),(4,17,22)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,6),(2,9,12),(2,8,11),(4,17,22)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,13,17),(2,9,12),(2,8,11)); lvl=5; h,r-ind=1,1
          [3,3]((4,17,22),(3,13,17),(2,8,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(4,17,22),(3,13,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,6),(3,13,17),(2,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(1,4,5),(4,17,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(4,15,21),(2,8,11)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,5),(2,9,9),(1,3,3),(1,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,5),(1,4,4),(3,11,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,3,4),(1,3,3),(1,4,4),(3,11,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,3,3),(2,7,8),(1,4,4)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,13),(2,7,8),(1,4,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(3,11,13),(2,7,8)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,4),(1,3,3),(2,7,8)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,5),(3,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,9,9),(1,4,4)); lvl=4; h,r-ind=1,1
      [4,3]((1,5,6),(1,6,6),(1,4,5),(2,9,9)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,5),(1,5,5),(3,14,16)); lvl=4; h,r-ind=1,1
```

```
      [4,3]((1,5,6),(1,6,6),(1,5,5),(3,14,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,10,11),(1,6,6),(1,5,5)); lvl=5; h,r-ind=1,1
        [3,3]((3,14,16),(2,10,11),(1,5,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(3,14,16),(2,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(2,10,11),(1,6,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,4,5),(1,5,6),(3,14,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,9),(1,5,5)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,0),(2,5,8),(2,6,9),(1,3,3)); lvl=2; h,r-ind=3,3
    [3,3]((1,2,3),(2,5,8),(2,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,2,3),(2,6,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,4),(1,3,3),(2,3,3),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,2),(3,7,9)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,4),(1,3,3),(1,2,2),(3,7,9)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,3),(2,5,6),(1,2,2)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,9),(2,5,6),(1,2,2)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(1,3,3),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,9),(1,3,4),(2,5,6)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,3),(1,3,4),(3,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,3),(1,2,2)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,3),(1,2,3)); lvl=3; h,r-ind=3,3; optimized-h
    [3,3]((1,0,0),(1,2,3),(2,5,8)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,8),(1,3,5),(2,6,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,5,8),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,12),(1,0,0),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,7,12),(1,3,5),(1,4,6)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,6,6),(1,0,0)); lvl=1; h,r-ind=6,6; optimized-h
[3,3]((2,7,12),(1,6,6),(1,6,11)); lvl=1; h,r-ind=25,5; alert-h-inc
  [3,3]((1,4,6),(2,9,12),(2,9,13)); lvl=2; h,r-ind=1,1
  [5,3]((2,12,17),(4,19,29),(1,6,6),(2,9,12),(2,9,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,10,15),(1,5,7),(4,19,29),(3,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((5,24,36),(1,5,7),(3,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,29),(5,24,36),(3,14,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,15),(4,19,29),(5,24,36)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,15),(5,24,36),(1,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,13),(3,14,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,12),(2,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(2,9,12),(1,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,7),(2,12,15),(1,5,6),(1,6,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,6),(3,16,20),(1,6,7),(1,6,6)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,16,20),(2,11,13),(1,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(2,11,13),(1,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(1,6,6),(2,11,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,6),(3,16,20),(2,11,13)); lvl=5; h,r-ind=1,1
      [3,3]((1,5,7),(1,5,6),(3,16,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(3,16,20),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,7),(2,12,15),(1,6,7)); lvl=4; h,r-ind=1,1
    [3,3]((4,21,31),(2,10,15),(1,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,12,17),(4,21,31),(1,6,8),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,16),(4,21,31),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((4,22,31),(2,11,16),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(4,22,31),(1,5,7)); lvl=4; h,r-ind=1,1
      [4,3]((2,12,17),(1,6,8),(4,22,31),(2,11,16)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,17,24),(1,6,8),(4,22,31)); lvl=5; h,r-ind=1,1
        [3,3]((3,17,24),(2,11,16),(4,22,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,17),(3,17,24),(2,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,12,17),(3,17,24),(1,6,8)); lvl=5; h,r-ind=1,1
    [3,3]((1,6,8),(1,5,7),(2,12,15)); lvl=3; h,r-ind=1,1
  [5,3]((1,4,7),(2,9,15),(4,19,29),(1,4,6),(2,9,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,14),(3,14,21),(2,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,14),(1,4,6),(2,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(2,9,14),(1,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((3,14,22),(2,9,14),(4,19,29),(3,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((6,28,43),(3,14,21),(2,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,14,22),(6,28,43),(2,9,14)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,29),(3,14,22),(6,28,43)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,29),(6,28,43),(3,14,21)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,15),(3,14,22),(2,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,7),(2,9,15),(2,9,14)); lvl=3; h,r-ind=1,1
  [3,3]((2,7,12),(1,4,7),(1,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,7),(2,9,16),(2,9,15)); lvl=2; h,r-ind=1,1
  [5,3]((1,6,11),(2,12,17),(2,9,16),(2,9,15),(4,19,29)); lvl=2; h,r-ind=1,1
    [4,3]((2,10,15),(1,5,8),(3,14,22),(4,19,29)); lvl=3; h,r-ind=1,1
      [3,3]((5,24,37),(3,14,22),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,15),(5,24,37),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,29),(2,10,15),(5,24,37)); lvl=4; h,r-ind=1,1
      [3,3]((4,19,29),(5,24,37),(3,14,22)); lvl=4; h,r-ind=1,1
    [3,3]((1,5,8),(2,9,15),(3,14,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(2,9,16),(2,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,9),(1,5,8),(2,9,16)); lvl=3; h,r-ind=1,1
    [3,3]((4,21,31),(2,10,15),(1,5,8)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((2,12,17),(4,21,31),(1,6,9),(1,5,8)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,16),(1,5,8),(4,22,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,9),(1,5,8),(4,22,33)); lvl=4; h,r-ind=1,1
        [4,3]((2,12,17),(1,6,9),(2,11,16),(4,22,33)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,17,25),(2,11,16),(4,22,33)); lvl=5; h,r-ind=1,1
          [3,3]((3,17,25),(1,6,9),(4,22,33)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,17),(3,17,25),(1,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,12,17),(3,17,25),(2,11,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,11,16),(4,21,31),(1,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,9),(2,12,19),(1,5,8)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,9),(1,6,11),(2,12,19),(1,5,8)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,8),(1,6,10),(3,16,27)); lvl=4; h,r-ind=1,1
        [4,3]((1,5,9),(1,6,11),(1,6,10),(3,16,27)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,11),(2,11,19),(1,6,10)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,27),(2,11,19),(1,6,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(3,16,27),(2,11,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,9),(1,6,11),(2,11,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,8),(1,5,9),(3,16,27)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,8),(2,12,19),(1,6,10)); lvl=4; h,r-ind=1,1
  [4,3]((0,1,0),(1,7,12),(1,6,6),(1,6,11)); lvl=1; h,r-ind=1,1
    [4,3]((1,7,11),(2,12,17),(1,7,9),(1,6,11)); lvl=2; h,r-ind=1,1
      [3,3]((1,7,9),(2,12,17),(1,6,9)); lvl=3; h,r-ind=1,1
      [4,3]((1,7,10),(2,12,19),(1,7,9),(1,6,9)); lvl=3; h,r-ind=1,1
        [3,3]((2,13,19),(2,12,19),(1,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,9),(2,13,19),(1,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,10),(1,7,9),(2,13,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,10),(2,13,19),(2,12,19)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,11),(1,7,10),(1,6,11),(2,12,19)); lvl=3; h,r-ind=1,1
        [3,3]((1,7,10),(2,12,19),(1,6,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,10),(3,20,31),(1,6,10)); lvl=4; h,r-ind=1,1
        [4,3]((1,7,11),(3,20,31),(1,6,11),(1,6,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,6,11),(2,13,21),(1,6,10)); lvl=5; h,r-ind=1,1
          [3,3]((3,20,31),(2,13,21),(1,6,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,7,11),(1,6,11),(2,13,21)); lvl=5; h,r-ind=1,1
          [3,3]((3,20,31),(1,7,11),(2,13,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,7,11),(1,7,10),(3,20,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,12),(1,7,11),(1,6,11)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,7,12),(1,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,7,11),(1,7,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((0,1,0),(1,6,6),(2,12,17),(1,7,9)); lvl=2; h,r-ind=1,1
      [4,3]((1,7,9),(2,14,17),(2,12,17),(1,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,12,17),(1,6,8),(2,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,17),(1,6,8),(2,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,9),(2,14,17),(2,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,9),(2,12,17),(2,13,17)); lvl=4; h,r-ind=1,1
      [4,3]((0,1,0),(2,14,17),(2,12,15),(1,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,12,15),(1,7,8),(1,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,17),(1,7,8),(1,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,14,17),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,12,15),(1,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(2,12,15)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((0,1,0),(1,7,9),(2,14,17)); lvl=3; h,r-ind=1,1
  [3,3]((2,13,24),(1,7,12),(1,6,11)); lvl=1; h,r-ind=1,1
```

24.27 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,15,24)); lvl=0; h,r-ind=24,96
  [5,3]((1,3,4),(2,10,15),(1,4,6),(1,4,5),(1,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,6),(2,10,15),(2,9,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,7),(2,10,15),(2,9,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(1,5,7),(3,13,18)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,6),(3,12,17),(4,17,24),(2,9,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,12,17),(4,17,24),(5,21,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,13),(4,17,24),(5,21,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(3,12,17),(5,21,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,13),(1,4,6),(5,21,30)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,7),(3,13,18),(4,17,24),(2,9,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,13,18),(4,17,24),(5,22,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,13),(4,17,24),(5,22,31)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(3,13,18),(5,22,31)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,13),(1,5,7),(5,22,31)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,6),(3,12,17)); lvl=2; h,r-ind=1,1
    [5,3]((1,3,4),(1,4,5),(3,13,18),(3,12,17),(4,17,24)); lvl=2; h,r-ind=1,1
      [3,3]((2,8,11),(3,13,18),(4,17,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(3,12,17),(4,17,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,8,11),(3,12,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,11),(1,4,5),(3,13,18)); lvl=3; h,r-ind=1,1
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    [3,3]((1,3,4),(2,8,11),(1,4,5)); lvl=3; h,r-ind=1,1
[5,3]((1,6,8),(1,6,6),(1,5,5),(1,4,5),(1,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,5,6),(1,5,5),(1,6,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,7),(1,5,6),(1,6,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,7),(1,6,8),(1,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,8),(1,5,6),(1,5,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,6),(1,5,5),(1,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,6),(1,5,7),(1,4,5)); lvl=2; h,r-ind=1,1
[5,3]((1,7,11),(0,1,0),(1,8,12),(1,6,8),(1,6,6)); lvl=1; h,r-ind=1,2
  [5,3]((0,1,0),(1,8,9),(2,14,17),(1,6,6),(1,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,7),(2,14,17),(1,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,9),(2,14,17),(1,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,8,9),(1,7,8)); lvl=3; h,r-ind=1,1
    [4,3]((2,14,15),(2,13,14),(1,6,7),(1,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,20,22),(1,6,7),(2,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,15),(3,20,22),(2,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(3,20,22),(1,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,15),(1,7,8),(3,20,22)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(2,14,15),(1,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,14),(1,6,6),(1,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(2,14,15),(2,13,14),(1,6,6)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,7,7),(2,14,15),(2,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,6),(1,7,7),(2,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(1,7,7)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(2,14,15)); lvl=4; h,r-ind=1,1
  [4,3]((1,6,8),(1,7,10),(2,14,17),(1,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,7),(1,7,9),(3,19,24)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,8),(1,7,10),(1,7,9),(3,19,24)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((1,7,9),(1,7,10),(2,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(1,7,10),(2,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,19,24),(1,7,9),(2,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,8),(3,19,24),(2,13,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,7),(1,6,8),(3,19,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,7),(2,14,17),(1,7,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,11),(1,6,8),(1,7,10)); lvl=2; h,r-ind=1,1
  [5,3]((1,7,10),(1,8,9),(1,8,10),(2,15,21),(2,14,17)); lvl=2; h,r-ind=1,1
    [4,3]((2,15,19),(2,15,20),(1,7,10),(1,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,10),(2,15,20),(3,22,29)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,19),(2,15,20),(3,22,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(2,15,19),(3,22,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,9),(1,7,10),(3,22,29)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,9),(4,31,38),(2,15,19),(1,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,23,28),(2,15,19),(4,31,38)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,9),(3,23,28),(4,31,38)); lvl=4; h,r-ind=1,1
      [3,3]((3,23,28),(1,7,9),(2,15,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,9),(3,23,28),(1,7,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,9),(2,14,17),(1,7,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,8,10),(4,31,38),(2,15,19),(2,15,20)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,23,29),(4,31,38),(2,15,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,15,20),(3,23,29),(2,15,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,10),(2,15,20),(3,23,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,8,10),(3,23,29),(4,31,38)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,9),(1,8,10),(4,31,38)); lvl=3; h,r-ind=1,1
    [3,3]((2,15,21),(2,15,20),(1,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,10),(2,15,21),(2,15,20)); lvl=3; h,r-ind=1,1
  [5,3]((0,1,0),(1,8,12),(2,15,22),(1,8,10),(2,15,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,8,11),(2,15,22),(2,15,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,11),(1,8,10),(2,15,21)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,8,11),(1,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,11),(1,8,12),(2,15,22)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,8,11),(1,8,12)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,11),(1,8,12),(2,15,22)); lvl=2; h,r-ind=1,1
  [4,3]((1,7,11),(2,15,22),(1,7,10),(2,15,21)); lvl=2; h,r-ind=1,1
    [3,3]((2,15,22),(2,15,21),(3,22,32)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,10),(2,15,21),(3,22,32)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,11),(2,15,22),(3,22,32)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,10),(1,7,11),(3,22,32)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,8,9),(1,8,10)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,6,6),(1,5,5)); lvl=1; h,r-ind=1,1
[4,3]((1,7,11),(1,6,8),(2,10,15),(1,5,7)); lvl=1; h,r-ind=1,2
  [3,3]((1,6,9),(2,10,15),(1,5,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,8),(1,6,9),(1,5,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,7,11),(1,6,8),(1,6,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,7,11),(1,6,9),(2,10,15)); lvl=2; h,r-ind=1,1
[3,3]((2,15,24),(1,7,11),(1,8,12)); lvl=1; h,r-ind=1,1
[4,3]((1,7,11),(2,10,15),(1,4,6),(1,5,8)); lvl=1; h,r-ind=1,1
  [3,3]((2,11,17),(2,10,15),(1,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,8),(2,11,17),(1,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,7,11),(1,5,8),(2,11,17)); lvl=2; h,r-ind=1,1
  [3,3]((1,7,11),(2,11,17),(2,10,15)); lvl=2; h,r-ind=1,1
```

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[3,3]((1,0,0),(1,4,6),(1,5,8)); lvl=1; h,r-ind=2,2; optimized-h
[3,3]((2,15,24),(1,7,11),(1,5,8)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(1,3,4),(1,4,6)); lvl=1; h,r-ind=2,2; optimized-h
[4,3]((1,5,5),(1,0,0),(1,3,4),(1,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,5),(6,20,25),(1,0,0),(1,3,4)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc
    [5,3]((6,20,25),(6,19,23),(3,9,11),(7,20,25),(1,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((11,34,42),(3,9,11),(6,19,23),(7,22,27)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,11),(10,31,38),(6,19,23)); lvl=5; h,r-ind=1,1
        [3,3]((7,22,27),(10,31,38),(6,19,23)); lvl=5; h,r-ind=1,1
        [3,3]((11,34,42),(7,22,27),(10,31,38)); lvl=5; h,r-ind=1,1
        [3,3]((11,34,42),(3,9,11),(10,31,38)); lvl=5; h,r-ind=1,1
      [3,3]((4,13,16),(6,19,23),(7,22,27)); lvl=4; h,r-ind=1,1
      [5,3]((4,13,16),(9,28,35),(12,37,46),(11,34,42),(7,22,27)); lvl=4; h,r-ind=1,1
        [3,3]((8,25,31),(12,37,46),(11,34,42)); lvl=5; h,r-ind=1,1
        [3,3]((8,25,31),(7,22,27),(11,34,42)); lvl=5; h,r-ind=1,1
        [3,3]((4,13,16),(8,25,31),(7,22,27)); lvl=5; h,r-ind=1,1
        [3,3]((9,28,35),(4,13,16),(8,25,31)); lvl=5; h,r-ind=1,1
        [3,3]((9,28,35),(8,25,31),(12,37,46)); lvl=5; h,r-ind=1,1
      [4,3]((6,20,25),(4,13,16),(9,28,35),(1,3,4)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((4,13,16),(9,28,35),(5,16,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(9,28,35),(5,16,20)); lvl=5; h,r-ind=1,1
        [3,3]((6,20,25),(4,13,16),(5,16,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(6,20,25),(5,16,20)); lvl=5; h,r-ind=1,1
      [4,3]((12,37,46),(11,34,42),(3,9,11),(4,12,15)); lvl=4; h,r-ind=1,1
        [3,3]((15,46,57),(3,9,11),(11,34,42)); lvl=5; h,r-ind=1,1
        [3,3]((12,37,46),(15,46,57),(11,34,42)); lvl=5; h,r-ind=1,1
        [3,3]((4,12,15),(12,37,46),(15,46,57)); lvl=5; h,r-ind=1,1
        [3,3]((4,12,15),(15,46,57),(3,9,11)); lvl=5; h,r-ind=1,1
      [4,3]((9,28,35),(1,3,4),(12,37,46),(4,12,15)); lvl=4; h,r-ind=1,1
        [3,3]((13,40,50),(4,12,15),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((9,28,35),(13,40,50),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((12,37,46),(13,40,50),(4,12,15)); lvl=5; h,r-ind=1,1
        [3,3]((9,28,35),(12,37,46),(13,40,50)); lvl=5; h,r-ind=1,1
      [3,3]((3,9,11),(7,20,25),(4,12,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,4),(7,20,25),(4,12,15)); lvl=4; h,r-ind=1,1
    [5,3]((2,3,3),(2,5,6),(1,0,0),(7,20,25),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,8,10),(7,20,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,10),(1,3,4),(7,20,25)); lvl=4; h,r-ind=1,1
      [4,3]((3,8,10),(7,17,21),(5,12,15),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((8,20,25),(7,17,21),(5,12,15)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,4),(8,20,25),(5,12,15)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,10),(1,3,4),(8,20,25)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,10),(8,20,25),(7,17,21)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,6),(6,14,17),(3,8,10),(7,17,21)); lvl=4; h,r-ind=1,1
        [3,3]((9,22,27),(7,17,21),(6,14,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,6),(9,22,27),(6,14,17)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,10),(2,5,6),(9,22,27)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,10),(9,22,27),(7,17,21)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,3),(2,5,6),(6,14,17),(3,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(6,14,17),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,3),(5,11,13),(2,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((3,6,7),(5,11,13),(6,14,17)); lvl=5; h,r-ind=1,1
        [3,3]((3,6,7),(2,3,3),(5,11,13)); lvl=5; h,r-ind=1,1
      [5,3]((6,14,17),(3,6,7),(7,17,21),(5,12,15),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,15),(4,9,11),(1,1,1)); lvl=5; h,r-ind=1,1
        [3,3]((3,6,7),(4,9,11),(1,1,1)); lvl=5; h,r-ind=1,1
        [3,3]((6,14,17),(3,6,7),(4,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((7,17,21),(5,12,15),(4,9,11)); lvl=5; h,r-ind=1,1
        [3,3]((6,14,17),(7,17,21),(4,9,11)); lvl=5; h,r-ind=1,1
      [4,3]((5,12,15),(1,3,4),(1,0,0),(1,1,1)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,4,5),(1,0,0),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,15),(2,4,5),(1,3,4)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(1,1,1),(1,0,0)); lvl=5; h,r-ind=1,1
        [3,3]((5,12,15),(2,4,5),(1,1,1)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,3),(3,6,7),(1,1,1)); lvl=4; h,r-ind=1,1
    [3,3]((2,6,7),(6,19,23),(3,9,11)); lvl=3; h,r-ind=1,1
    [5,3]((1,2,2),(2,5,6),(2,6,7),(3,9,11),(7,20,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(10,29,35),(3,9,11)); lvl=4; h,r-ind=1,1
      [4,3]((6,17,21),(5,14,17),(10,29,35),(3,9,11)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,14,17),(8,23,28),(10,29,35)); lvl=5; h,r-ind=1,1
        [3,3]((3,9,11),(8,23,28),(10,29,35)); lvl=5; h,r-ind=1,1
        [3,3]((6,17,21),(3,9,11),(8,23,28)); lvl=5; h,r-ind=1,1
        [3,3]((6,17,21),(5,14,17),(8,23,28)); lvl=5; h,r-ind=1,1
      [3,3]((6,17,21),(7,20,25),(3,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,6),(6,17,21),(7,20,25)); lvl=4; h,r-ind=1,1
      [5,3]((1,2,2),(8,21,25),(5,14,17),(2,6,7),(10,29,35)); lvl=4; h,r-ind=1,1
        [3,3]((7,20,24),(5,14,17),(10,29,35)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,7),(7,20,24),(10,29,35)); lvl=5; h,r-ind=1,1
        [4,3]((7,20,24),(11,31,37),(9,25,30),(5,14,17)); lvl=5; h,r-ind=1,1
          [3,3]((11,31,37),(9,25,30),(16,45,54)); lvl=6; h,r-ind=1,1
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          [3,3]((5,14,17),(9,25,30),(16,45,54)); lvl=6; h,r-ind=1,1
          [3,3]((7,20,24),(11,31,37),(16,45,54)); lvl=6; h,r-ind=1,1
          [3,3]((5,14,17),(7,20,24),(16,45,54)); lvl=6; h,r-ind=1,1
        [4,3]((10,27,32),(6,16,19),(9,25,30),(5,14,17)); lvl=5; h,r-ind=1,1
          [3,3]((15,41,49),(5,14,17),(6,16,19)); lvl=6; h,r-ind=1,1
          [3,3]((10,27,32),(15,41,49),(6,16,19)); lvl=6; h,r-ind=1,1
          [3,3]((9,25,30),(15,41,49),(5,14,17)); lvl=6; h,r-ind=1,1
          [3,3]((10,27,32),(9,25,30),(15,41,49)); lvl=6; h,r-ind=1,1
        [3,3]((8,21,25),(6,16,19),(5,14,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(8,21,25),(6,16,19)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,7),(7,20,24),(11,31,37)); lvl=5; h,r-ind=1,1
        [3,3]((4,11,13),(2,6,7),(11,31,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(4,11,13),(2,6,7)); lvl=5; h,r-ind=1,1
        [4,3]((10,27,32),(4,11,13),(11,31,37),(9,25,30)); lvl=5; h,r-ind=1,1
          [3,3]((4,11,13),(11,31,37),(13,36,43)); lvl=6; h,r-ind=1,1
          [3,3]((9,25,30),(11,31,37),(13,36,43)); lvl=6; h,r-ind=1,1
          [3,3]((10,27,32),(4,11,13),(13,36,43)); lvl=6; h,r-ind=1,1
          [3,3]((9,25,30),(10,27,32),(13,36,43)); lvl=6; h,r-ind=1,1
        [3,3]((1,2,2),(10,27,32),(6,16,19)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,2),(10,27,32),(4,11,13)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,6),(6,17,21),(8,21,25),(5,14,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((6,17,21),(7,19,23),(5,14,17)); lvl=5; h,r-ind=1,1
        [3,3]((8,21,25),(7,19,23),(5,14,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,6),(8,21,25),(7,19,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,6),(6,17,21),(7,19,23)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(8,21,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,5),(1,2,2),(2,6,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,5),(6,20,25),(1,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,5),(2,5,5),(1,4,5),(6,20,25)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc
    [5,3]((1,4,5),(6,20,25),(6,19,23),(3,10,12),(7,25,30)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,5),(4,13,16),(6,20,25),(9,31,38)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((4,13,16),(6,20,25),(5,17,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(6,20,25),(5,17,21)); lvl=5; h,r-ind=1,1
        [3,3]((9,31,38),(4,13,16),(5,17,21)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(9,31,38),(5,17,21)); lvl=5; h,r-ind=1,1
      [5,3]((11,37,45),(12,41,50),(7,23,28),(4,13,16),(9,31,38)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,16),(8,27,33),(9,31,38)); lvl=5; h,r-ind=1,1
        [3,3]((12,41,50),(8,27,33),(9,31,38)); lvl=5; h,r-ind=1,1
        [3,3]((11,37,45),(12,41,50),(8,27,33)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,28),(4,13,16),(8,27,33)); lvl=5; h,r-ind=1,1
        [3,3]((11,37,45),(7,23,28),(8,27,33)); lvl=5; h,r-ind=1,1
      [4,3]((1,4,5),(12,41,50),(4,14,17),(9,31,38)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,17),(12,41,50),(13,45,55)); lvl=5; h,r-ind=1,1
        [3,3]((9,31,38),(12,41,50),(13,45,55)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,5),(4,14,17),(13,45,55)); lvl=5; h,r-ind=1,1
        [3,3]((9,31,38),(1,4,5),(13,45,55)); lvl=5; h,r-ind=1,1
      [4,3]((11,37,45),(7,23,28),(6,19,23),(3,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((10,33,40),(7,23,28),(6,19,23)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,12),(10,33,40),(6,19,23)); lvl=5; h,r-ind=1,1
        [3,3]((11,37,45),(3,10,12),(10,33,40)); lvl=5; h,r-ind=1,1
        [3,3]((11,37,45),(10,33,40),(7,23,28)); lvl=5; h,r-ind=1,1
      [4,3]((11,37,45),(12,41,50),(4,14,17),(3,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((15,51,62),(4,14,17),(12,41,50)); lvl=5; h,r-ind=1,1
        [3,3]((11,37,45),(15,51,62),(12,41,50)); lvl=5; h,r-ind=1,1
        [3,3]((3,10,12),(15,51,62),(4,14,17)); lvl=5; h,r-ind=1,1
        [3,3]((11,37,45),(3,10,12),(15,51,62)); lvl=5; h,r-ind=1,1
      [3,3]((7,25,30),(4,14,17),(3,10,12)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(7,25,30),(4,14,17)); lvl=4; h,r-ind=1,1
      [3,3]((7,23,28),(6,19,23),(4,13,16)); lvl=4; h,r-ind=1,1
    [5,3]((1,3,3),(2,7,8),(2,6,7),(3,10,12),(7,25,30)); lvl=3; h,r-ind=1,1
      [3,3]((6,21,25),(3,10,12),(7,25,30)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,8),(6,21,25),(7,25,30)); lvl=4; h,r-ind=1,1
      [4,3]((6,21,25),(5,17,20),(10,33,39),(3,10,12)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((8,27,32),(5,17,20),(10,33,39)); lvl=5; h,r-ind=1,1
        [3,3]((8,27,32),(3,10,12),(10,33,39)); lvl=5; h,r-ind=1,1
        [3,3]((6,21,25),(8,27,32),(3,10,12)); lvl=5; h,r-ind=1,1
        [3,3]((6,21,25),(8,27,32),(5,17,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,7),(10,33,39),(3,10,12)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,8),(6,21,25),(5,17,20),(8,27,31)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((6,21,25),(7,24,28),(5,17,20)); lvl=5; h,r-ind=1,1
        [3,3]((8,27,31),(7,24,28),(5,17,20)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,8),(8,27,31),(7,24,28)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,8),(6,21,25),(7,24,28)); lvl=5; h,r-ind=1,1
      [5,3]((1,3,3),(2,6,7),(5,17,20),(8,27,31),(10,33,39)); lvl=4; h,r-ind=1,1
        [3,3]((7,23,27),(10,33,39),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((7,23,27),(11,36,42),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((4,13,15),(11,36,42),(2,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,3,3),(4,13,15),(2,6,7)); lvl=5; h,r-ind=1,1
        [4,3]((10,33,38),(9,30,35),(4,13,15),(11,36,42)); lvl=5; h,r-ind=1,1
```

```
            [3,3]((9,30,35),(13,43,50),(11,36,42)); lvl=6; h,r-ind=1,1
            [3,3]((4,13,15),(13,43,50),(11,36,42)); lvl=6; h,r-ind=1,1
            [3,3]((10,33,38),(4,13,15),(13,43,50)); lvl=6; h,r-ind=1,1
            [3,3]((10,33,38),(9,30,35),(13,43,50)); lvl=6; h,r-ind=1,1
          [3,3]((1,3,3),(10,33,38),(4,13,15)); lvl=5; h,r-ind=1,1
          [3,3]((7,23,27),(5,17,20),(10,33,39)); lvl=5; h,r-ind=1,1
          [4,3]((9,30,35),(7,23,27),(11,36,42),(5,17,20)); lvl=5; h,r-ind=1,1
            [3,3]((16,53,62),(7,23,27),(11,36,42)); lvl=6; h,r-ind=1,1
            [3,3]((9,30,35),(16,53,62),(11,36,42)); lvl=6; h,r-ind=1,1
            [3,3]((5,17,20),(9,30,35),(16,53,62)); lvl=6; h,r-ind=1,1
            [3,3]((5,17,20),(16,53,62),(7,23,27)); lvl=6; h,r-ind=1,1
          [4,3]((6,20,23),(10,33,38),(9,30,35),(5,17,20)); lvl=5; h,r-ind=1,1
            [3,3]((15,50,58),(10,33,38),(9,30,35)); lvl=6; h,r-ind=1,1
            [3,3]((5,17,20),(15,50,58),(9,30,35)); lvl=6; h,r-ind=1,1
            [3,3]((6,20,23),(5,17,20),(15,50,58)); lvl=6; h,r-ind=1,1
            [3,3]((6,20,23),(15,50,58),(10,33,38)); lvl=6; h,r-ind=1,1
          [3,3]((8,27,31),(6,20,23),(5,17,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(8,27,31),(6,20,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,3,3),(6,20,23),(10,33,38)); lvl=5; h,r-ind=1,1
        [3,3]((2,7,8),(1,3,3),(8,27,31)); lvl=4; h,r-ind=1,1
      [5,3]((1,4,5),(1,5,5),(2,7,7),(2,7,8),(7,25,30)); lvl=3; h,r-ind=1,1
        [4,3]((2,7,7),(6,22,25),(3,11,12),(2,7,8)); lvl=4; h,r-ind=1,1
          [3,3]((5,18,20),(3,11,12),(6,22,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(5,18,20),(6,22,25)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,7),(5,18,20),(3,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(2,7,7),(5,18,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,4,4),(2,7,7),(3,11,12)); lvl=4; h,r-ind=1,1
        [4,3]((3,11,13),(7,26,30),(6,22,25),(2,7,8)); lvl=4; h,r-ind=1,1
          [3,3]((9,33,38),(6,22,25),(7,26,30)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,13),(9,33,38),(7,26,30)); lvl=5; h,r-ind=1,1
          [3,3]((2,7,8),(9,33,38),(6,22,25)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,13),(2,7,8),(9,33,38)); lvl=5; h,r-ind=1,1
        [3,3]((7,25,30),(3,11,13),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(7,25,30),(3,11,13)); lvl=4; h,r-ind=1,1
        [4,3]((1,4,5),(5,19,22),(3,11,13),(7,26,30)); lvl=4; h,r-ind=1,1
          [3,3]((5,19,22),(7,26,30),(8,30,35)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,13),(7,26,30),(8,30,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,5),(5,19,22),(8,30,35)); lvl=5; h,r-ind=1,1
          [3,3]((3,11,13),(1,4,5),(8,30,35)); lvl=5; h,r-ind=1,1
        [5,3]((1,4,4),(5,19,22),(7,26,30),(6,22,25),(3,11,12)); lvl=4; h,r-ind=1,1
          [3,3]((4,15,17),(7,26,30),(6,22,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,15,17),(3,11,12),(6,22,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,4),(4,15,17),(3,11,12)); lvl=5; h,r-ind=1,1
          [3,3]((5,19,22),(1,4,4),(4,15,17)); lvl=5; h,r-ind=1,1
          [3,3]((5,19,22),(4,15,17),(7,26,30)); lvl=5; h,r-ind=1,1
        [4,3]((1,5,5),(1,4,5),(1,4,4),(5,19,22)); lvl=4; h,r-ind=1,3; alert-r-inc
          [3,3]((2,8,9),(5,19,22),(1,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(2,8,9),(1,4,5)); lvl=5; h,r-ind=1,1
          [3,3]((2,8,9),(1,4,4),(5,19,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,5,5),(2,8,9),(1,4,4)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,5),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(6,19,23),(3,10,12)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,5),(1,0,0)); lvl=1; h,r-ind=5,5; optimized-h
```

24.28 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,17,24)); lvl=0; h,r-ind=24,288
  [5,3]((0,1,0),(1,9,12),(1,6,6),(1,7,9),(1,8,11)); lvl=1; h,r-ind=1,1
    [4,3]((1,7,8),(2,15,18),(1,7,9),(2,15,19)); lvl=2; h,r-ind=1,1
      [3,3]((2,15,18),(2,15,19),(3,22,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(2,15,19),(3,22,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(2,15,18),(3,22,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,9),(1,7,8),(3,22,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,11),(1,7,9),(2,15,19)); lvl=2; h,r-ind=1,1
    [6,3]((2,17,22),(1,8,11),(1,8,9),(2,17,19),(2,15,18),(2,15,19)); lvl=2; h,r-ind=1,1
      [3,3]((1,8,10),(1,8,11),(2,17,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,34,41),(1,8,10),(2,17,22)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,17,19),(4,34,41),(1,8,10)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,8,9),(2,17,19),(1,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,10),(1,8,11),(2,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,10),(2,15,18),(2,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,9),(1,8,10),(2,15,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,9,12),(2,17,22),(1,8,11)); lvl=2; h,r-ind=1,1
    [4,3]((2,16,17),(1,8,9),(1,9,9),(2,17,19)); lvl=2; h,r-ind=1,1
      [3,3]((1,8,9),(2,17,18),(2,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,9),(2,17,18),(2,17,19)); lvl=3; h,r-ind=1,1
```

```
  [3,3]((2,16,17),(1,9,9),(2,17,18)); lvl=3; h,r-ind=1,1
  [3,3]((2,16,17),(1,8,9),(2,17,18)); lvl=3; h,r-ind=1,1
[5,3]((0,1,0),(1,9,12),(2,17,22),(1,9,9),(2,17,19)); lvl=2; h,r-ind=1,1
  [4,3]((2,18,21),(4,34,41),(2,17,19),(1,9,10)); lvl=3; h,r-ind=1,1
    [4,3]((7,61,71),(1,9,10),(2,17,19),(2,17,20)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((1,9,10),(2,17,19),(3,26,30)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,20),(2,17,19),(3,26,30)); lvl=5; h,r-ind=1,1
      [3,3]((7,61,71),(2,17,20),(3,26,30)); lvl=5; h,r-ind=1,1
      [3,3]((7,61,71),(1,9,10),(3,26,30)); lvl=5; h,r-ind=1,1
    [4,3]((7,61,71),(4,35,41),(3,26,31),(2,17,20)); lvl=4; h,r-ind=1,1
      [3,3]((4,35,41),(3,26,31),(6,52,61)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,20),(3,26,31),(6,52,61)); lvl=5; h,r-ind=1,1
      [3,3]((7,61,71),(4,35,41),(6,52,61)); lvl=5; h,r-ind=1,1
      [3,3]((2,17,20),(7,61,71),(6,52,61)); lvl=5; h,r-ind=1,1
    [3,3]((3,26,31),(4,34,41),(2,17,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,18,21),(4,35,41),(3,26,31)); lvl=4; h,r-ind=1,1
    [4,3]((2,18,21),(7,61,71),(4,35,41),(1,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((4,35,41),(5,44,51),(7,61,71)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,10),(5,44,51),(7,61,71)); lvl=5; h,r-ind=1,1
      [3,3]((2,18,21),(4,35,41),(5,44,51)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,10),(2,18,21),(5,44,51)); lvl=5; h,r-ind=1,1
  [3,3]((1,9,9),(2,17,19),(1,9,10)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,9,9),(1,9,10)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,18,21),(1,9,10)); lvl=3; h,r-ind=1,1
  [4,3]((1,9,11),(2,18,21),(2,17,22),(4,34,41)); lvl=3; h,r-ind=1,1
    [3,3]((3,26,31),(2,17,21),(4,34,41)); lvl=4; h,r-ind=1,1
    [4,3]((4,35,42),(7,61,74),(3,26,31),(2,17,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,17,21),(6,52,63),(7,61,74)); lvl=5; h,r-ind=1,1
      [3,3]((4,35,42),(6,52,63),(7,61,74)); lvl=5; h,r-ind=1,1
      [3,3]((3,26,31),(4,35,42),(6,52,63)); lvl=5; h,r-ind=1,1
      [3,3]((3,26,31),(2,17,21),(6,52,63)); lvl=5; h,r-ind=1,1
    [4,3]((1,9,11),(7,61,74),(2,17,22),(2,17,21)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((2,17,22),(3,26,32),(2,17,21)); lvl=5; h,r-ind=1,1
      [3,3]((7,61,74),(3,26,32),(2,17,21)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,11),(7,61,74),(3,26,32)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,11),(2,17,22),(3,26,32)); lvl=5; h,r-ind=1,1
    [3,3]((2,18,21),(4,35,42),(3,26,31)); lvl=4; h,r-ind=1,1
    [4,3]((1,9,11),(2,18,21),(4,35,42),(7,61,74)); lvl=4; h,r-ind=1,1
      [3,3]((2,18,21),(5,44,53),(4,35,42)); lvl=5; h,r-ind=1,1
      [3,3]((7,61,74),(5,44,53),(4,35,42)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,11),(7,61,74),(5,44,53)); lvl=5; h,r-ind=1,1
      [3,3]((1,9,11),(2,18,21),(5,44,53)); lvl=5; h,r-ind=1,1
  [3,3]((1,9,12),(1,9,11),(2,17,22)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,9,12),(1,9,11)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,9,11),(2,18,21)); lvl=3; h,r-ind=1,1
[3,3]((1,6,6),(1,7,8),(1,7,9)); lvl=2; h,r-ind=1,1
[5,3]((2,16,17),(1,8,9),(2,14,15),(1,7,8),(2,15,18)); lvl=2; h,r-ind=1,1
  [3,3]((1,7,8),(2,15,17),(2,15,18)); lvl=3; h,r-ind=1,1
  [3,3]((1,8,9),(2,15,17),(2,15,18)); lvl=3; h,r-ind=1,1
  [4,3]((1,8,9),(2,16,17),(3,23,25),(5,38,42)); lvl=3; h,r-ind=1,1
    [3,3]((2,16,17),(4,31,34),(3,23,25)); lvl=4; h,r-ind=1,1
    [3,3]((5,38,42),(4,31,34),(3,23,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,9),(5,38,42),(4,31,34)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,9),(2,16,17),(4,31,34)); lvl=4; h,r-ind=1,1
  [4,3]((5,37,41),(6,45,50),(1,7,8),(2,15,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,15,17),(6,45,50),(7,52,58)); lvl=4; h,r-ind=1,1
    [3,3]((5,37,41),(6,45,50),(7,52,58)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,8),(5,37,41),(7,52,58)); lvl=4; h,r-ind=1,1
    [3,3]((1,7,8),(2,15,17),(7,52,58)); lvl=4; h,r-ind=1,1
  [4,3]((1,8,9),(5,38,42),(6,45,50),(2,15,17)); lvl=3; h,r-ind=1,1
    [3,3]((5,38,42),(6,45,50),(7,53,59)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,17),(6,45,50),(7,53,59)); lvl=4; h,r-ind=1,1
    [3,3]((1,8,9),(5,38,42),(7,53,59)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,17),(1,8,9),(7,53,59)); lvl=4; h,r-ind=1,1
  [4,3]((3,22,24),(2,14,15),(5,37,41),(1,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((4,29,32),(1,7,8),(2,14,15)); lvl=4; h,r-ind=1,1
    [3,3]((3,22,24),(4,29,32),(2,14,15)); lvl=4; h,r-ind=1,1
    [3,3]((3,22,24),(5,37,41),(4,29,32)); lvl=4; h,r-ind=1,1
    [3,3]((5,37,41),(4,29,32),(1,7,8)); lvl=4; h,r-ind=1,1
  [3,3]((2,15,16),(3,22,24),(2,14,15)); lvl=3; h,r-ind=1,1
  [6,3]((2,15,16),(3,23,25),(3,22,24),(5,38,42),(5,37,41),(6,45,50)); lvl=3; h,r-ind=1,1
    [3,3]((4,30,33),(5,38,42),(3,23,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,16),(4,30,33),(3,23,25)); lvl=4; h,r-ind=1,1
    [3,3]((2,15,16),(4,30,33),(3,22,24)); lvl=4; h,r-ind=1,1
    [3,3]((4,30,33),(6,45,50),(5,38,42)); lvl=4; h,r-ind=1,1
    [3,3]((4,30,33),(6,45,50),(5,37,41)); lvl=4; h,r-ind=1,1
    [3,3]((4,30,33),(3,22,24),(5,37,41)); lvl=4; h,r-ind=1,1
  [3,3]((2,16,17),(2,15,16),(3,23,25)); lvl=3; h,r-ind=1,1
[3,3]((1,6,6),(2,14,15),(1,7,8)); lvl=2; h,r-ind=1,1
[5,3]((0,1,0),(2,16,17),(1,9,9),(1,6,6),(2,14,15)); lvl=2; h,r-ind=1,1
```

```
      [4,3]((2,15,15),(1,8,8),(2,16,17),(2,15,16)); lvl=3; h,r-ind=1,1
        [3,3]((3,23,24),(1,8,8),(2,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,16),(3,23,24),(2,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,15),(2,15,16),(3,23,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,15,15),(3,23,24),(1,8,8)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,7),(2,14,15),(2,15,15),(2,15,16)); lvl=3; h,r-ind=1,1
        [3,3]((2,15,16),(3,22,23),(2,15,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,7),(3,22,23),(2,15,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,7),(2,14,15),(3,22,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,15),(2,15,16),(3,22,23)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(2,15,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,7),(2,14,15),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,15,15),(1,8,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,9),(1,8,8),(2,16,17)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,9,9),(1,8,8)); lvl=3; h,r-ind=1,1
[5,3]((2,13,18),(1,6,8),(2,15,21),(1,7,9),(1,8,11)); lvl=1; h,r-ind=1,1
  [3,3]((4,29,40),(2,15,21),(1,8,11)); lvl=2; h,r-ind=1,1
  [4,3]((2,14,19),(5,35,48),(4,29,40),(1,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((6,43,59),(5,35,48),(4,29,40)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,11),(6,43,59),(4,29,40)); lvl=3; h,r-ind=1,1
    [3,3]((2,14,19),(1,8,11),(6,43,59)); lvl=3; h,r-ind=1,1
    [3,3]((2,14,19),(6,43,59),(5,35,48)); lvl=3; h,r-ind=1,1
  [3,3]((1,7,9),(2,14,19),(1,8,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,8),(1,7,9),(2,14,19)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,8),(4,27,37),(2,14,19),(5,35,48)); lvl=2; h,r-ind=1,1
    [3,3]((2,14,19),(5,35,48),(6,41,56)); lvl=3; h,r-ind=1,1
    [3,3]((4,27,37),(5,35,48),(6,41,56)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(4,27,37),(6,41,56)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(2,14,19),(6,41,56)); lvl=3; h,r-ind=1,1
  [5,3]((2,13,18),(4,27,37),(5,35,48),(4,29,40),(2,15,21)); lvl=2; h,r-ind=1,1
    [3,3]((5,35,48),(3,21,29),(4,27,37)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,18),(3,21,29),(4,27,37)); lvl=3; h,r-ind=1,1
    [3,3]((5,35,48),(3,21,29),(4,29,40)); lvl=3; h,r-ind=1,1
    [3,3]((2,15,21),(3,21,29),(4,29,40)); lvl=3; h,r-ind=1,1
    [3,3]((2,13,18),(2,15,21),(3,21,29)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,8),(2,13,18),(4,27,37)); lvl=2; h,r-ind=1,1
[3,3]((2,17,24),(2,15,21),(1,8,11)); lvl=1; h,r-ind=1,1
[3,3]((2,13,18),(1,5,7),(2,15,21)); lvl=1; h,r-ind=1,1
[3,3]((2,17,24),(1,5,7),(2,15,21)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(2,17,24),(1,5,7)); lvl=1; h,r-ind=1,1
[3,3]((2,17,24),(1,9,12),(1,8,11)); lvl=1; h,r-ind=1,1
[5,3]((1,4,5),(1,6,8),(1,4,4),(1,6,6),(1,7,9)); lvl=1; h,r-ind=1,2
  [4,3]((1,6,7),(2,11,13),(1,7,9),(2,12,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,13),(2,12,15),(3,18,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,9),(2,12,15),(3,18,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,7),(2,11,13),(3,18,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,7,9),(1,6,7),(3,18,22)); lvl=3; h,r-ind=1,1
  [3,3]((1,6,8),(1,7,9),(2,12,15)); lvl=2; h,r-ind=1,1
  [4,3]((1,6,8),(1,5,6),(2,11,13),(2,12,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(2,11,13),(3,17,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,12,15),(2,11,13),(3,17,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(2,12,15),(3,17,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,8),(1,5,6),(3,17,21)); lvl=3; h,r-ind=1,1
  [3,3]((1,4,5),(1,6,8),(1,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,5),(1,5,6),(1,4,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,6,7),(1,6,6),(1,7,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,5),(1,6,7),(2,11,13),(1,6,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,12),(2,11,13),(1,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,6),(2,11,12),(1,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,5),(1,6,6),(2,11,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,5),(2,11,12),(2,11,13)); lvl=3; h,r-ind=1,1
  [4,3]((1,5,6),(1,4,4),(1,5,5),(2,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,4),(1,5,5),(2,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,13),(1,5,5),(2,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,4),(2,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(2,11,13),(2,10,11)); lvl=3; h,r-ind=1,1
[4,3]((1,0,0),(1,3,4),(1,4,5),(1,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,4),(1,4,5),(5,16,20)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,4),(1,2,2),(1,4,5),(5,16,20)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
    [4,3]((1,4,5),(3,10,12),(3,9,11),(5,16,20)); lvl=3; h,r-ind=1,2
      [3,3]((4,13,16),(3,10,12),(3,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((5,16,20),(4,13,16),(3,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(5,16,20),(4,13,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(4,13,16),(3,10,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(3,10,12),(3,9,11)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((1,3,3),(1,2,2),(3,10,12)); lvl=3; h,r-ind=2,2; optimized-h
    [4,3]((1,4,5),(1,3,3),(1,4,4),(3,10,12)); lvl=3; h,r-ind=1,2
      [3,3]((2,7,8),(1,3,3),(1,4,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,5),(2,7,8),(1,4,4)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((2,7,8),(3,10,12),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,8),(3,10,12)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,2),(1,3,4),(5,16,20)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,3,4),(3,8,10),(5,16,20),(3,9,11)); lvl=3; h,r-ind=1,2
        [3,3]((4,12,15),(3,8,10),(3,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,20),(4,12,15),(3,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(5,16,20),(4,12,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(4,12,15),(3,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,10),(1,2,2),(3,9,11)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((1,1,1),(3,8,10),(1,2,2)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((1,0,0),(1,1,1),(1,3,4),(3,8,10)); lvl=3; h,r-ind=1,2
        [3,3]((1,1,1),(2,4,5),(3,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,4,5),(3,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(1,3,4),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(1,1,1),(2,4,5)); lvl=4; h,r-ind=1,1
  [5,3]((1,3,4),(2,13,18),(1,4,5),(1,6,8),(1,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,7),(2,11,15),(2,13,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,8),(2,11,15),(2,13,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(1,6,8),(3,15,20)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,7),(2,11,15),(3,14,19),(4,20,27)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,15),(4,20,27),(5,25,34)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,19),(4,20,27),(5,25,34)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,15),(5,25,34)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,19),(1,5,7),(5,25,34)); lvl=3; h,r-ind=1,1
    [4,3]((1,6,8),(3,15,20),(2,11,15),(4,20,27)); lvl=2; h,r-ind=1,1
      [3,3]((3,15,20),(4,20,27),(5,26,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,15),(4,20,27),(5,26,35)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(3,15,20),(5,26,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,15),(1,6,8),(5,26,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(1,3,4),(3,14,19)); lvl=2; h,r-ind=1,1
    [5,3]((1,3,4),(1,4,5),(3,15,20),(3,14,19),(4,20,27)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,12),(3,15,20),(4,20,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,12),(3,14,19),(4,20,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,9,12),(3,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(1,3,4),(2,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,12),(3,15,20)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,3,4),(1,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(1,6,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,4,4)); lvl=1; h,r-ind=4,4; optimized-h
```

24.29 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,19,24)); lvl=0; h,r-ind=24,288
  [3,3]((0,1,0),(1,3,3),(1,6,6)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((1,5,6),(2,7,8),(1,7,8),(1,3,3),(1,6,6)); lvl=1; h,r-ind=1,1
    [4,3]((2,10,11),(2,8,9),(2,9,9),(1,3,3)); lvl=2; h,r-ind=1,1
      [4,3]((2,8,9),(2,9,10),(1,3,3),(1,4,4)); lvl=3; h,r-ind=1,1
        [3,3]((3,12,13),(1,4,4),(2,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(3,12,13),(2,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,8,9),(3,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(3,12,13),(1,4,4)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,11),(2,9,10),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,11),(2,9,9),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,9),(2,7,8),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(2,8,9),(2,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(1,6,7),(2,10,11),(2,8,9)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,7),(4,20,23),(2,10,11),(2,9,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,15,17),(2,9,10),(4,20,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(3,15,17),(4,20,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(1,6,7),(3,15,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(3,15,17),(2,9,10)); lvl=4; h,r-ind=1,1
      [4,3]((2,8,9),(1,5,6),(4,20,23),(2,9,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,14,16),(1,5,6),(4,20,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(3,14,16),(4,20,23)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,9),(3,14,16),(1,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,10),(2,8,9),(3,14,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,5,6),(1,6,7),(4,20,23)); lvl=3; h,r-ind=1,1
    [5,3]((1,6,7),(2,10,11),(1,7,8),(1,6,6),(2,9,9)); lvl=2; h,r-ind=1,1
      [4,3]((4,21,23),(2,10,11),(1,5,5),(2,9,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,15,16),(2,10,11),(2,9,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(3,15,16),(2,9,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,23),(3,15,16),(2,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(4,21,23),(3,15,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(4,21,23),(2,10,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,6,7),(3,18,20),(4,21,23),(1,5,5)); lvl=3; h,r-ind=1,1
        [3,3]((2,11,12),(1,5,5),(3,18,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,7),(2,11,12),(3,18,20)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((1,6,7),(4,21,23),(2,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,23),(2,11,12),(1,5,5)); lvl=4; h,r-ind=1,1
      [4,3]((3,18,20),(1,7,8),(1,6,6),(1,5,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,7,8),(1,6,6),(2,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(1,6,6),(2,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,18,20),(1,5,5),(2,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,18,20),(1,7,8),(2,12,13)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(3,18,20),(1,7,8)); lvl=3; h,r-ind=1,1
[4,3]((1,0,0),(2,7,8),(2,5,6),(1,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,3),(2,3,3),(2,7,8),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,6,7),(2,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(5,15,17),(2,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,8),(5,15,17),(2,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(1,3,3),(2,7,8),(5,15,17)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,9,10),(2,7,8),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(3,9,10),(1,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((5,15,17),(3,9,10),(2,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(5,15,17),(3,9,10)); lvl=4; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,3),(2,5,6),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,6,7),(5,12,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,6,7),(5,12,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(2,5,6),(1,1,1),(5,12,14)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,6),(5,12,14),(3,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(5,12,14),(3,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(2,5,6),(3,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,6,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(2,6,7)); lvl=3; h,r-ind=1,1
[5,3]((1,4,5),(2,12,15),(1,5,6),(2,7,8),(2,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((2,6,7),(2,7,8),(3,11,13)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,6),(5,20,24),(2,7,8),(3,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,16,19),(3,11,13),(5,20,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(4,16,19),(5,20,24)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,8),(1,5,6),(4,16,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,8),(4,16,19),(3,11,13)); lvl=3; h,r-ind=1,1
  [4,3]((2,9,11),(6,24,29),(1,5,6),(5,20,24)); lvl=2; h,r-ind=1,1
    [3,3]((5,20,24),(6,24,29),(7,29,35)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,11),(6,24,29),(7,29,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,11),(7,29,35)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(5,20,24),(7,29,35)); lvl=3; h,r-ind=1,1
  [3,3]((2,12,15),(2,9,11),(1,5,6)); lvl=2; h,r-ind=1,1
  [6,3]((6,24,29),(5,19,23),(3,10,12),(5,20,24),(2,6,7),(3,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,18),(2,6,7),(3,10,12)); lvl=3; h,r-ind=1,1
    [3,3]((4,15,18),(5,19,23),(3,10,12)); lvl=3; h,r-ind=1,1
    [3,3]((6,24,29),(4,15,18),(5,19,23)); lvl=3; h,r-ind=1,1
    [3,3]((4,15,18),(3,11,13),(2,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((4,15,18),(5,20,24),(3,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((6,24,29),(4,15,18),(5,20,24)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,6),(3,10,12),(2,6,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,5),(2,9,11),(6,24,29),(5,19,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,11),(6,24,29),(7,28,34)); lvl=3; h,r-ind=1,1
    [3,3]((5,19,23),(6,24,29),(7,28,34)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(2,9,11),(7,28,34)); lvl=3; h,r-ind=1,1
    [3,3]((5,19,23),(1,4,5),(7,28,34)); lvl=3; h,r-ind=1,1
  [3,3]((2,12,15),(1,4,5),(2,9,11)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,5),(2,5,6),(5,19,23),(3,10,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,14,17),(3,10,12),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(4,14,17),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((4,14,17),(5,19,23),(3,10,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(4,14,17),(5,19,23)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(1,4,5),(2,5,6)); lvl=1; h,r-ind=1,1
[3,3]((2,19,24),(1,4,5),(2,12,15)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(2,19,24),(1,4,5)); lvl=1; h,r-ind=1,1
[5,3]((2,17,21),(2,12,15),(1,5,6),(1,8,10),(1,7,8)); lvl=1; h,r-ind=1,1
  [4,3]((1,8,10),(2,13,16),(2,14,17),(4,31,38)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((3,22,27),(2,14,17),(2,13,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,10),(3,22,27),(2,13,16)); lvl=3; h,r-ind=1,1
    [3,3]((4,31,38),(3,22,27),(2,14,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,10),(4,31,38),(3,22,27)); lvl=3; h,r-ind=1,1
  [4,3]((1,7,8),(1,6,7),(2,14,17),(4,31,38)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,7),(7,49,59),(2,14,17)); lvl=3; h,r-ind=1,1
    [4,3]((5,38,46),(4,31,38),(7,49,59),(2,14,17)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((4,29,35),(7,49,59),(11,80,97),(2,14,17)); lvl=4; h,r-ind=1,3
        [3,3]((6,43,52),(7,49,59),(2,14,17)); lvl=5; h,r-ind=1,1
        [3,3]((11,80,97),(6,43,52),(2,14,17)); lvl=5; h,r-ind=1,1
        [3,3]((4,29,35),(11,80,97),(6,43,52)); lvl=5; h,r-ind=1,1
        [3,3]((4,29,35),(6,43,52),(7,49,59)); lvl=5; h,r-ind=1,1
      [4,3]((4,31,38),(3,23,28),(11,80,97),(2,14,17)); lvl=4; h,r-ind=1,3
        [3,3]((5,37,45),(3,23,28),(11,80,97)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,17),(5,37,45),(11,80,97)); lvl=5; h,r-ind=1,1
        [3,3]((4,31,38),(5,37,45),(3,23,28)); lvl=5; h,r-ind=1,1
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          [3,3]((2,14,17),(4,31,38),(5,37,45)); lvl=5; h,r-ind=1,1
        [3,3]((3,23,28),(4,29,35),(11,80,97)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((5,38,46),(3,23,28),(4,29,35)); lvl=4; h,r-ind=1,1
      [4,3]((1,7,8),(5,38,46),(1,6,7),(7,49,59)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,6,7),(8,56,67),(4,29,35),(7,49,59)); lvl=4; h,r-ind=1,3
          [3,3]((8,56,67),(5,35,42),(4,29,35)); lvl=5; h,r-ind=1,1
          [3,3]((7,49,59),(5,35,42),(4,29,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(7,49,59),(5,35,42)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(8,56,67),(5,35,42)); lvl=5; h,r-ind=1,1
        [3,3]((2,15,18),(8,56,67),(4,29,35)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((2,15,18),(5,38,46),(4,29,35)); lvl=4; h,r-ind=1,1
        [4,3]((1,6,7),(1,7,8),(2,15,18),(8,56,67)); lvl=4; h,r-ind=1,3
          [3,3]((1,7,8),(3,21,25),(2,15,18)); lvl=5; h,r-ind=1,1
          [3,3]((8,56,67),(3,21,25),(2,15,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(8,56,67),(3,21,25)); lvl=5; h,r-ind=1,1
          [3,3]((1,6,7),(1,7,8),(3,21,25)); lvl=5; h,r-ind=1,1
    [3,3]((2,17,21),(1,7,8),(4,31,38)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,8,10),(2,17,21),(4,31,38)); lvl=2; h,r-ind=1,1
    [3,3]((2,12,15),(1,8,10),(2,13,16)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,6),(1,6,7),(2,13,16),(2,14,17)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,7),(2,14,17),(3,19,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,16),(2,14,17),(3,19,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,6,7),(3,19,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,13,16),(1,5,6),(3,19,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,12,15),(1,5,6),(2,13,16)); lvl=2; h,r-ind=1,1
  [3,3]((2,19,24),(2,17,21),(1,8,10)); lvl=1; h,r-ind=1,1
  [3,3]((2,19,24),(2,12,15),(1,8,10)); lvl=1; h,r-ind=1,1
  [5,3]((1,10,12),(2,17,21),(1,7,8),(0,1,0),(1,6,6)); lvl=1; h,r-ind=1,1
    [3,3]((3,21,23),(1,6,6),(1,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((3,21,23),(4,29,32),(2,15,17),(1,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((4,29,32),(2,15,17),(5,36,40)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(2,15,17),(5,36,40)); lvl=3; h,r-ind=1,1
      [3,3]((3,21,23),(4,29,32),(5,36,40)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(3,21,23),(5,36,40)); lvl=3; h,r-ind=1,1
    [4,3]((1,9,11),(2,17,21),(2,15,17),(1,7,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,7,8),(2,17,21),(2,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,11),(2,17,21),(2,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,15,17),(1,7,8),(2,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,9,11),(2,15,17),(2,16,19)); lvl=3; h,r-ind=1,1
    [5,3]((1,9,11),(1,8,8),(1,9,9),(4,29,32),(2,15,17)); lvl=2; h,r-ind=1,1
      [3,3]((1,8,9),(1,9,9),(1,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,9),(1,9,11),(1,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,9),(2,15,17),(1,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,8),(1,8,9),(1,9,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,8,8),(5,37,40),(1,8,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((5,37,40),(1,8,9),(4,29,32)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,8,9),(4,29,32),(2,15,17)); lvl=3; h,r-ind=1,1
    [4,3]((3,21,23),(1,8,8),(4,29,32),(1,6,6)); lvl=2; h,r-ind=1,1
      [4,3]((2,14,15),(1,7,7),(1,8,8),(5,37,40)); lvl=3; h,r-ind=1,1
        [4,3]((2,15,16),(5,36,38),(1,7,7),(1,8,8)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,36,38),(3,22,23),(1,7,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,8,8),(3,22,23),(1,7,7)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,16),(1,8,8),(3,22,23)); lvl=5; h,r-ind=1,1
          [3,3]((2,15,16),(5,36,38),(3,22,23)); lvl=5; h,r-ind=1,1
        [3,3]((2,14,15),(2,15,16),(5,36,38)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,15),(5,37,40),(2,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,14,15),(5,36,38),(1,7,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,14,15),(4,29,32),(5,37,40)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((3,21,23),(2,14,15),(4,29,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,14,15),(1,6,6),(1,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,21,23),(2,14,15),(1,6,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,8,8),(0,1,0),(1,6,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,8,8),(1,9,9),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((1,10,12),(1,9,11),(1,9,9),(0,1,0)); lvl=2; h,r-ind=1,1
      [4,3]((0,1,0),(1,9,9),(1,9,10),(2,20,21)); lvl=3; h,r-ind=1,1
        [3,3]((1,9,9),(1,10,10),(1,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,20,21),(1,10,10),(1,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,20,21),(1,10,10)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,9,9),(1,10,10)); lvl=4; h,r-ind=1,1
      [4,3]((1,10,11),(1,9,11),(1,9,10),(2,20,21)); lvl=3; h,r-ind=1,1
        [3,3]((2,19,21),(1,9,10),(1,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,10,11),(2,19,21),(1,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,10,11),(2,20,21),(2,19,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,20,21),(2,19,21),(1,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,10,11),(2,20,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,10,12),(1,10,11),(1,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,10,12),(1,10,11)); lvl=3; h,r-ind=1,1
  [3,3]((2,19,24),(1,10,12),(2,17,21)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

24.30 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,21,24)); lvl=0; h,r-ind=24,96
  [4,3]((0,1,0),(1,6,6),(1,9,10),(1,11,12)); lvl=1; h,r-ind=2,2
    [3,3]((1,7,7),(1,6,6),(1,9,10)); lvl=2; h,r-ind=1,1
    [4,3]((1,9,9),(1,10,11),(1,7,7),(1,9,10)); lvl=2; h,r-ind=1,1
      [3,3]((1,10,11),(3,27,29),(1,9,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,8,8),(1,7,7),(3,27,29),(1,9,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,17,18),(3,27,29),(1,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,7,7),(2,17,18),(1,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,8),(1,7,7),(2,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,8),(2,17,18),(3,27,29)); lvl=4; h,r-ind=1,1
      [4,3]((1,9,9),(1,8,8),(1,10,11),(3,27,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,8,8),(2,18,19),(3,27,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,10,11),(2,18,19),(3,27,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,9),(1,10,11),(2,18,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,9,9),(1,8,8),(2,18,19)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,9,9),(1,7,7)); lvl=2; h,r-ind=2,2; optimized-h
    [4,3]((0,1,0),(1,9,9),(1,11,12),(1,10,11)); lvl=2; h,r-ind=1,1
      [4,3]((1,10,10),(2,21,21),(1,10,11),(2,21,22)); lvl=3; h,r-ind=1,1
        [3,3]((2,21,21),(2,21,22),(3,31,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,10,11),(2,21,22),(3,31,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,10,10),(1,10,11),(3,31,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,10,10),(2,21,21),(3,31,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,11,12),(1,10,11),(2,21,22)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,11,12),(2,21,21),(2,21,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,11,11),(2,21,21),(2,21,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,11,12),(1,11,11),(2,21,22)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,11,11),(2,21,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,11,12),(0,1,0),(1,11,11)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,10,10),(2,21,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,10,10),(1,9,9),(1,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,10,10),(1,9,9)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,7,7),(1,6,6)); lvl=2; h,r-ind=1,1
  [3,3]((2,21,24),(1,9,10),(1,11,12)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,7,8),(2,21,24),(1,9,10)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,2),(0,1,0),(1,6,6)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,0,0),(1,2,2),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,7,8),(1,2,2),(1,6,6),(1,9,10)); lvl=1; h,r-ind=2,1
    [4,3]((1,9,10),(1,8,9),(1,6,6),(1,4,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,8,9),(3,22,24),(1,4,4),(1,5,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,5),(3,22,24),(2,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(3,22,24),(2,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(1,5,5),(2,13,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(1,4,4),(2,13,14)); lvl=4; h,r-ind=1,1
      [4,3]((1,6,6),(1,9,10),(3,22,24),(1,5,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,14,15),(3,22,24),(1,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(2,14,15),(1,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(1,6,6),(2,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,5),(2,14,15),(3,22,24)); lvl=4; h,r-ind=1,1
      [3,3]((1,9,10),(1,8,9),(3,22,24)); lvl=3; h,r-ind=1,1
    [4,3]((1,7,8),(1,8,9),(1,2,2),(1,4,4)); lvl=2; h,r-ind=1,1
      [4,3]((1,8,9),(3,18,20),(1,4,4),(1,3,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,12),(1,3,3),(3,18,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,8,9),(2,11,12),(3,18,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(1,8,9),(2,11,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(2,11,12),(1,3,3)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,2),(1,7,8),(3,18,20),(1,3,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,10,11),(3,18,20),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,10,11),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,2,2),(2,10,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,10,11),(3,18,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,8),(1,8,9),(3,18,20)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,7,8),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

24.31 Resolved

```
[3,3]((1,0,0),(0,1,0),(2,23,24)); lvl=0; h,r-ind=24,288
  [3,3]((1,6,6),(1,1,1),(0,1,0)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,12,12),(1,6,6),(0,1,0)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((2,23,24),(1,12,12),(1,6,6)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((2,23,24),(1,6,6),(1,1,1)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(2,23,24),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.32 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,4,24)); lvl=0; h,r-ind=24,48
  [4,3]((1,1,6),(3,4,12),(3,4,20),(1,0,0)); lvl=1; h,r-ind=4,4
    [4,3]((1,1,3),(2,2,9),(3,4,16),(3,4,12)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,4),(3,4,16),(3,4,14)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((3,4,12),(1,1,3),(1,1,4),(3,4,14)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,4),(1,1,3),(5,6,20)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,13),(3,4,12),(1,1,3),(5,6,20)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,5,16),(1,1,3),(3,4,12)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,13),(4,5,16),(3,4,12)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,20),(4,5,16),(1,1,3)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,13),(5,6,20),(4,5,16)); lvl=5; h,r-ind=1,1
        [4,3]((3,4,14),(3,4,13),(1,1,4),(5,6,20)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,13),(5,6,20),(4,5,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(5,6,20),(4,5,17)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,14),(3,4,13),(4,5,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(3,4,14),(4,5,17)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,4),(2,2,9),(3,4,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(1,0,0),(2,2,9)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((1,1,5),(1,0,0),(2,2,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,6),(1,1,5),(1,0,0)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,5),(2,2,9),(3,4,20),(3,4,16)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,18),(3,4,16),(7,8,36)); lvl=3; h,r-ind=8,4; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,2,9),(3,4,16),(7,8,36)); lvl=3; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,1,5),(2,2,9),(7,8,36)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,5),(3,4,18),(3,4,20),(7,8,36)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,1,5),(5,6,28),(3,4,20),(3,4,19)); lvl=4; h,r-ind=1,2
          [3,3]((3,4,20),(4,5,24),(3,4,19)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,28),(4,5,24),(3,4,19)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(3,4,20),(4,5,24)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,28),(1,1,5),(4,5,24)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,28),(3,4,18),(3,4,19)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((5,6,28),(5,6,27),(3,4,18)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,1,5),(5,6,28),(5,6,27),(7,8,36)); lvl=4; h,r-ind=1,2
          [3,3]((6,7,32),(5,6,28),(5,6,27)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,36),(6,7,32),(5,6,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(7,8,36),(6,7,32)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,5),(6,7,32),(5,6,28)); lvl=5; h,r-ind=1,1
    [3,3]((1,1,6),(1,1,5),(3,4,20)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,6),(3,4,22),(3,4,20)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,4,24),(1,1,6),(3,4,22)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(3,4,12),(1,0,0)); lvl=1; h,r-ind=12,12; optimized-h
  [4,3]((0,1,0),(3,4,12),(2,3,14),(3,4,20)); lvl=1; h,r-ind=2,1
    [5,3]((3,4,12),(3,5,12),(6,10,33),(2,3,11),(3,4,16)); lvl=2; h,r-ind=1,1
      [4,3]((6,10,29),(4,6,19),(2,3,8),(3,5,12)); lvl=3; h,r-ind=1,1
        [3,3]((5,8,24),(4,6,19),(2,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,14),(5,8,24),(2,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,14),(6,10,27),(2,3,9)); lvl=4; h,r-ind=1,1
        [4,3]((3,5,12),(6,10,27),(2,3,8),(2,3,9)); lvl=4; h,r-ind=1,1
          [3,3]((2,3,8),(2,3,9),(7,11,30)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,13),(2,3,9),(7,11,30)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,13),(6,10,27),(2,3,9)); lvl=5; h,r-ind=1,1
          [4,3]((3,5,12),(3,5,13),(2,3,8),(7,11,30)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((5,8,21),(3,5,13),(7,11,30)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,8),(5,8,21),(7,11,30)); lvl=6; h,r-ind=1,1
            [3,3]((3,5,12),(5,8,21),(3,5,13)); lvl=6; h,r-ind=1,1
            [3,3]((2,3,8),(3,5,12),(5,8,21)); lvl=6; h,r-ind=1,1
        [3,3]((6,10,29),(3,5,14),(5,8,24)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,12),(3,4,14),(4,6,19),(2,3,8)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,14),(2,3,9),(4,6,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,13),(3,4,14),(2,3,9)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,8),(3,4,12),(3,4,13),(2,3,9)); lvl=4; h,r-ind=1,1
          [3,3]((5,7,21),(3,4,13),(3,4,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,8),(5,7,21),(3,4,12)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,9),(5,7,21),(3,4,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,8),(2,3,9),(5,7,21)); lvl=5; h,r-ind=1,1
      [4,3]((3,5,16),(6,10,29),(4,6,19),(4,6,21)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc
        [3,3]((2,3,10),(5,8,24),(4,6,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,10),(3,5,15),(5,8,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,16),(2,3,10),(3,5,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,16),(4,6,21),(2,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,15),(5,8,24),(6,10,29)); lvl=4; h,r-ind=1,1
      [4,3]((6,10,33),(3,5,16),(4,6,21),(2,3,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,16),(4,6,21),(5,8,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(4,6,21),(5,8,27)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,33),(3,5,16),(5,8,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(6,10,33),(5,8,27)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,16),(4,6,21),(2,3,11)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,14),(3,4,16),(4,6,19),(4,6,21)); lvl=3; h,r-ind=4,2; alert-h-inc; alert-r-inc
```

```
      [3,3]((3,4,16),(2,3,10),(4,6,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,15),(3,4,16),(2,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,15),(3,4,14),(2,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,14),(4,6,19),(2,3,10)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,20),(2,3,13),(2,3,11),(3,4,16)); lvl=2; h,r-ind=2,1
      [4,3]((3,4,18),(3,4,16),(2,3,12),(2,3,11)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,12),(2,3,11),(7,10,40)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,17),(3,4,16),(2,3,11),(7,10,40)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,16),(5,7,28),(2,3,11)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,40),(5,7,28),(2,3,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,17),(7,10,40),(5,7,28)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,17),(3,4,16),(5,7,28)); lvl=5; h,r-ind=1,1
        [4,3]((3,4,18),(3,4,17),(2,3,12),(7,10,40)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,17),(7,10,40),(5,7,29)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,12),(7,10,40),(5,7,29)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,18),(2,3,12),(5,7,29)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,18),(3,4,17),(5,7,29)); lvl=5; h,r-ind=1,1
      [4,3]((3,4,20),(3,4,18),(2,3,13),(2,3,12)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,13),(2,3,12),(7,10,44)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,19),(3,4,18),(2,3,12),(7,10,44)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,7,31),(3,4,18),(2,3,12)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,44),(5,7,31),(2,3,12)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,19),(7,10,44),(5,7,31)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,19),(5,7,31),(3,4,18)); lvl=5; h,r-ind=1,1
        [4,3]((3,4,20),(3,4,19),(2,3,13),(7,10,44)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,4,19),(7,10,44),(5,7,32)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,13),(7,10,44),(5,7,32)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,20),(2,3,13),(5,7,32)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,20),(3,4,19),(5,7,32)); lvl=5; h,r-ind=1,1
    [3,3]((2,3,14),(3,4,20),(2,3,13)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,5,12),(6,10,33)); lvl=2; h,r-ind=27,9; alert-h-inc; alert-r-inc
      [4,3]((1,2,5),(3,5,12),(1,2,4),(6,10,29)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,4),(3,5,12),(6,10,27),(6,11,27)); lvl=4; h,r-ind=3,3; alert-h-inc; alert-r-inc
          [3,3]((4,7,18),(3,5,13),(6,10,27)); lvl=5; h,r-ind=1,1
          [3,3]((4,7,18),(9,16,39),(3,5,13)); lvl=5; h,r-ind=2,4; alert-r-inc; optimized-h
          [4,3]((1,2,4),(9,16,39),(3,5,12),(3,5,13)); lvl=5; h,r-ind=1,3
            [3,3]((4,7,17),(3,5,12),(3,5,13)); lvl=6; h,r-ind=1,1
            [3,3]((9,16,39),(4,7,17),(3,5,13)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,4),(9,16,39),(4,7,17)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,4),(4,7,17),(3,5,12)); lvl=6; h,r-ind=1,1
          [4,3]((1,2,4),(6,11,27),(4,7,18),(9,16,39)); lvl=5; h,r-ind=1,3
            [3,3]((5,9,22),(4,7,18),(6,11,27)); lvl=6; h,r-ind=1,1
            [3,3]((1,2,4),(5,9,22),(6,11,27)); lvl=6; h,r-ind=1,1
            [3,3]((9,16,39),(1,2,4),(5,9,22)); lvl=6; h,r-ind=1,1
            [3,3]((9,16,39),(5,9,22),(4,7,18)); lvl=6; h,r-ind=1,1
        [4,3]((1,2,5),(3,5,14),(6,10,27),(6,11,27)); lvl=4; h,r-ind=1,1
          [4,3]((4,7,18),(3,5,14),(6,10,27),(8,14,37)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((7,12,32),(6,10,27),(3,5,14)); lvl=6; h,r-ind=1,1
            [3,3]((8,14,37),(7,12,32),(3,5,14)); lvl=6; h,r-ind=1,1
            [3,3]((4,7,18),(8,14,37),(7,12,32)); lvl=6; h,r-ind=1,1
            [3,3]((4,7,18),(7,12,32),(6,10,27)); lvl=6; h,r-ind=1,1
          [3,3]((1,2,5),(4,7,18),(8,14,37)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(4,7,18),(6,11,27)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(3,5,14),(8,14,37)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(3,5,14),(6,10,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(1,2,4),(6,11,27)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,16),(1,2,5),(6,10,29)); lvl=3; h,r-ind=3,3; optimized-h
      [4,3]((3,5,16),(6,10,33),(6,11,33),(1,2,5)); lvl=3; h,r-ind=1,1
        [4,3]((3,5,16),(8,14,43),(4,7,22),(6,10,33)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((8,14,43),(7,12,38),(4,7,22)); lvl=5; h,r-ind=1,1
          [3,3]((6,10,33),(7,12,38),(4,7,22)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,16),(6,10,33),(7,12,38)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,16),(8,14,43),(7,12,38)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(3,5,16),(8,14,43)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(8,14,43),(4,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,5),(6,11,33),(4,7,22)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(6,11,33),(1,2,5)); lvl=3; h,r-ind=3,3; optimized-h
      [3,3]((0,1,0),(1,2,5),(1,2,4)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,13),(3,5,19),(6,10,33),(2,3,11)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,11),(2,3,12),(3,5,17),(6,10,35)); lvl=3; h,r-ind=1,1
        [3,3]((3,5,17),(6,10,35),(5,8,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,12),(6,10,35),(5,8,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,11),(3,5,17),(5,8,29)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,12),(2,3,11),(5,8,29)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,13),(2,3,12),(3,5,19),(6,10,35)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,12),(3,5,18),(7,11,43)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,12),(2,3,13),(7,11,43)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,13),(3,5,19),(3,5,18),(7,11,43)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,19),(5,8,31),(3,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((7,11,43),(5,8,31),(3,5,18)); lvl=5; h,r-ind=1,1
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```
          [3,3]((2,3,13),(7,11,43),(5,8,31)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,13),(3,5,19),(5,8,31)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,12),(3,5,18),(6,10,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,11),(6,10,33),(3,5,17)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,14),(1,2,7),(2,3,13),(3,5,19)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,7),(3,5,20),(3,5,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,13),(3,5,20),(3,5,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,14),(2,3,13),(3,5,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,14),(1,2,7),(3,5,20)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,7),(3,5,19),(6,10,33)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,6),(1,2,7),(3,5,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(6,10,35),(3,5,19)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((3,5,17),(1,2,6),(6,10,35)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,17),(6,10,33),(6,11,33),(1,2,6)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,6),(4,7,22),(6,11,33)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(8,14,45),(4,7,22)); lvl=4; h,r-ind=1,1
        [4,3]((3,5,17),(8,14,45),(6,10,33),(4,7,22)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,7,22),(7,12,39),(8,14,45)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,17),(7,12,39),(8,14,45)); lvl=5; h,r-ind=1,1
          [3,3]((6,10,33),(4,7,22),(7,12,39)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,17),(6,10,33),(7,12,39)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,17),(1,2,6),(8,14,45)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(6,11,33),(1,2,6)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((0,1,0),(1,2,6),(1,2,7)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,22),(2,3,15),(2,3,14),(3,4,20)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,15),(2,3,14),(7,10,50)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,21),(3,4,20),(2,3,14),(7,10,50)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,20),(5,7,35),(2,3,14)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,50),(5,7,35),(2,3,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,21),(3,4,20),(5,7,35)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,50),(3,4,21),(5,7,35)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,22),(3,4,21),(2,3,15),(7,10,50)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,7,36),(7,10,50),(3,4,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,22),(5,7,36),(3,4,21)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,36),(2,3,15),(7,10,50)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,22),(5,7,36),(2,3,15)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,24),(3,5,24),(3,4,22),(2,3,15)); lvl=1; h,r-ind=1,1
    [4,3]((9,13,69),(3,5,24),(2,3,16),(2,3,15)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,3,16),(4,6,31),(3,5,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,15),(4,6,31),(3,5,24)); lvl=3; h,r-ind=1,1
      [3,3]((9,13,69),(2,3,15),(4,6,31)); lvl=3; h,r-ind=1,1
      [3,3]((9,13,69),(2,3,16),(4,6,31)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,22),(5,7,38),(9,13,69),(2,3,15)); lvl=2; h,r-ind=1,1
      [3,3]((7,10,53),(5,7,38),(9,13,69)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,15),(7,10,53),(9,13,69)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,22),(7,10,53),(5,7,38)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,15),(3,4,22),(7,10,53)); lvl=3; h,r-ind=1,1
    [4,3]((5,7,38),(9,13,69),(3,4,23),(2,3,16)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,16),(7,10,54),(9,13,69)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,38),(7,10,54),(9,13,69)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,23),(5,7,38),(7,10,54)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,23),(2,3,16),(7,10,54)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,24),(3,4,23),(2,3,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,22),(5,7,38),(3,4,23)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(3,5,24),(2,3,15),(2,3,14)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,14),(6,10,45),(3,5,22),(2,3,15)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,22),(6,10,45),(5,8,37)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,15),(6,10,45),(5,8,37)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,14),(3,5,22),(5,8,37)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,15),(2,3,14),(5,8,37)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,8),(3,5,24),(6,10,45),(2,3,15)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,5,23),(3,5,24),(2,3,15)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,45),(3,5,23),(2,3,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(6,10,45),(3,5,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(3,5,23),(3,5,24)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,7),(1,2,8),(6,10,45),(3,5,22)); lvl=2; h,r-ind=1,1
      [3,3]((6,10,45),(1,2,8),(4,7,30)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(1,2,8),(4,7,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,22),(6,10,45),(4,7,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,22),(1,2,7),(4,7,30)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,14),(1,2,7),(3,5,22)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,7),(0,1,0),(1,2,8)); lvl=2; h,r-ind=1,1
```

24.33 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,5,24)); lvl=0; h,r-ind=24,192
  [5,3]((4,6,15),(2,3,12),(3,5,12),(3,5,19),(5,8,32)); lvl=1; h,r-ind=1,1
```

```
[4,3]((3,5,19),(5,8,31),(6,10,31),(10,16,51)); lvl=2; h,r-ind=1,1
  [3,3]((5,8,26),(10,16,51),(8,13,41)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,16),(5,8,26),(8,13,41)); lvl=3; h,r-ind=1,1
  [3,3]((6,10,31),(3,5,16),(8,13,41)); lvl=3; h,r-ind=1,1
  [4,3]((3,5,16),(3,5,17),(5,8,26),(5,8,28)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,17),(11,18,60),(5,8,28),(5,8,27)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((8,13,44),(5,8,28),(5,8,27)); lvl=5; h,r-ind=1,1
      [3,3]((11,18,60),(8,13,44),(5,8,27)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,17),(11,18,60),(8,13,44)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,17),(8,13,44),(5,8,28)); lvl=5; h,r-ind=1,1
    [4,3]((3,5,16),(11,18,60),(5,8,26),(5,8,27)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((8,13,43),(5,8,26),(5,8,27)); lvl=5; h,r-ind=1,1
      [3,3]((11,18,60),(8,13,43),(5,8,27)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,16),(11,18,60),(8,13,43)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,16),(8,13,43),(5,8,26)); lvl=5; h,r-ind=1,1
    [3,3]((3,5,16),(3,5,17),(11,18,60)); lvl=4; h,r-ind=1,1
  [4,3]((3,5,19),(3,5,17),(5,8,31),(5,8,28)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,18),(3,5,17),(5,8,28),(10,16,59)); lvl=4; h,r-ind=1,1
      [4,3]((5,8,29),(3,5,17),(5,8,28),(11,18,64)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,8,28),(8,13,46),(3,5,17)); lvl=6; h,r-ind=1,1
        [3,3]((11,18,64),(8,13,46),(3,5,17)); lvl=6; h,r-ind=1,1
        [3,3]((5,8,29),(5,8,28),(8,13,46)); lvl=6; h,r-ind=1,1
        [3,3]((11,18,64),(5,8,29),(8,13,46)); lvl=6; h,r-ind=1,1
      [3,3]((3,5,18),(5,8,29),(11,18,64)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,18),(5,8,29),(10,16,59)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,18),(3,5,17),(11,18,64)); lvl=5; h,r-ind=1,1
    [4,3]((3,5,19),(3,5,18),(5,8,31),(10,16,59)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,19),(11,18,67),(5,8,30),(5,8,31)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,8,30),(11,18,67),(8,13,49)); lvl=6; h,r-ind=1,1
        [3,3]((3,5,19),(11,18,67),(8,13,49)); lvl=6; h,r-ind=1,1
        [3,3]((5,8,31),(5,8,30),(8,13,49)); lvl=6; h,r-ind=1,1
        [3,3]((3,5,19),(5,8,31),(8,13,49)); lvl=6; h,r-ind=1,1
      [3,3]((3,5,18),(3,5,19),(11,18,67)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,18),(11,18,67),(5,8,30)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,18),(10,16,59),(5,8,30)); lvl=5; h,r-ind=1,1
[5,3]((4,6,19),(2,3,8),(3,5,12),(6,10,31),(10,16,51)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,9),(5,8,25),(3,5,15),(3,5,14)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,25),(5,8,24),(3,5,15)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,14),(5,8,24),(3,5,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,9),(3,5,14),(5,8,24)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,9),(5,8,25),(5,8,24)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,8),(2,3,9),(3,5,12),(3,5,14)); lvl=3; h,r-ind=1,1
    [4,3]((7,11,30),(2,3,9),(3,5,13),(3,5,14)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,13),(3,5,14),(5,8,22)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,9),(3,5,14),(5,8,22)); lvl=5; h,r-ind=1,1
      [3,3]((7,11,30),(3,5,13),(5,8,22)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,9),(7,11,30),(5,8,22)); lvl=5; h,r-ind=1,1
    [4,3]((2,3,8),(7,11,30),(3,5,12),(3,5,13)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,12),(5,8,21),(3,5,13)); lvl=5; h,r-ind=1,1
      [3,3]((7,11,30),(5,8,21),(3,5,13)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,8),(7,11,30),(5,8,21)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,8),(3,5,12),(5,8,21)); lvl=5; h,r-ind=1,1
    [3,3]((2,3,8),(7,11,30),(2,3,9)); lvl=4; h,r-ind=1,1
  [4,3]((5,8,25),(8,13,41),(6,10,31),(3,5,15)); lvl=3; h,r-ind=1,1
    [3,3]((6,10,31),(8,13,41),(11,18,56)); lvl=4; h,r-ind=1,1
    [3,3]((5,8,25),(8,13,41),(11,18,56)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,15),(5,8,25),(11,18,56)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,15),(6,10,31),(11,18,56)); lvl=4; h,r-ind=1,1
  [4,3]((7,11,35),(5,8,25),(10,16,51),(8,13,41)); lvl=3; h,r-ind=1,1
    [3,3]((15,24,76),(8,13,41),(5,8,25)); lvl=4; h,r-ind=1,1
    [3,3]((7,11,35),(15,24,76),(5,8,25)); lvl=4; h,r-ind=1,1
    [3,3]((10,16,51),(15,24,76),(8,13,41)); lvl=4; h,r-ind=1,1
    [3,3]((7,11,35),(10,16,51),(15,24,76)); lvl=4; h,r-ind=1,1
  [4,3]((2,3,9),(4,6,19),(7,11,35),(5,8,25)); lvl=3; h,r-ind=1,1
    [3,3]((9,14,44),(7,11,35),(4,6,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,9),(9,14,44),(4,6,19)); lvl=4; h,r-ind=1,1
    [3,3]((5,8,25),(2,3,9),(9,14,44)); lvl=4; h,r-ind=1,1
    [3,3]((5,8,25),(9,14,44),(7,11,35)); lvl=4; h,r-ind=1,1
[3,3]((4,6,15),(2,3,8),(3,5,12)); lvl=2; h,r-ind=1,1
[4,3]((4,6,19),(2,3,12),(5,8,31),(10,16,51)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,12),(4,6,21),(5,8,28),(5,8,31)); lvl=3; h,r-ind=3,1; alert-h-inc
    [3,3]((2,3,11),(5,8,28),(10,16,59)); lvl=4; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((2,3,12),(5,8,31),(2,3,11),(10,16,59)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,11),(10,16,59),(5,8,30)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,11),(9,14,53),(5,8,30)); lvl=5; h,r-ind=1,1
      [4,3]((2,3,12),(5,8,31),(9,14,53),(5,8,30)); lvl=5; h,r-ind=1,2; alert-r-inc
        [3,3]((5,8,30),(5,8,31),(7,11,42)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,12),(5,8,31),(7,11,42)); lvl=6; h,r-ind=1,1
        [3,3]((9,14,53),(5,8,30),(7,11,42)); lvl=6; h,r-ind=1,1
        [3,3]((2,3,12),(9,14,53),(7,11,42)); lvl=6; h,r-ind=1,1
```

```
          [3,3]((2,3,11),(2,3,12),(9,14,53)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,21),(2,3,11),(5,8,28)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,10),(5,8,26),(4,6,21),(5,8,28)); lvl=3; h,r-ind=1,1
        [3,3]((5,8,28),(9,14,48),(5,8,27)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [4,3]((2,3,10),(5,8,26),(9,14,48),(5,8,27)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,8,26),(7,11,37),(5,8,27)); lvl=5; h,r-ind=1,1
          [3,3]((9,14,48),(7,11,37),(5,8,27)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,10),(9,14,48),(7,11,37)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,10),(5,8,26),(7,11,37)); lvl=5; h,r-ind=1,1
        [3,3]((4,6,21),(2,3,10),(9,14,48)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,21),(5,8,28),(9,14,48)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((2,3,10),(7,11,35),(5,8,26)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,35),(10,16,51),(5,8,26)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,19),(2,3,10),(7,11,35)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,32),(3,5,19),(5,8,31)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,12),(5,8,32),(5,8,31)); lvl=2; h,r-ind=1,1
[6,3]((1,2,8),(3,5,22),(1,2,7),(5,8,35),(3,5,19),(5,8,32)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,8),(3,5,21),(3,5,22)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,35),(3,5,21),(3,5,22)); lvl=2; h,r-ind=1,1
    [4,3]((5,8,35),(6,10,41),(10,16,67),(3,5,21)); lvl=2; h,r-ind=1,1
      [3,3]((6,10,41),(8,13,54),(11,18,75)); lvl=3; h,r-ind=1,1
      [4,3]((5,8,34),(19,31,130),(8,13,54),(11,18,75)); lvl=3; h,r-ind=1,1
        [3,3]((19,31,130),(16,26,109),(11,18,75)); lvl=4; h,r-ind=1,1
        [3,3]((8,13,54),(16,26,109),(11,18,75)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,34),(19,31,130),(16,26,109)); lvl=4; h,r-ind=1,1
        [3,3]((8,13,54),(5,8,34),(16,26,109)); lvl=4; h,r-ind=1,1
      [3,3]((5,8,34),(10,16,67),(8,13,54)); lvl=3; h,r-ind=1,1
      [4,3]((19,31,130),(3,5,21),(6,10,41),(11,18,75)); lvl=3; h,r-ind=1,1
        [3,3]((14,23,96),(6,10,41),(3,5,21)); lvl=4; h,r-ind=1,1
        [3,3]((19,31,130),(14,23,96),(3,5,21)); lvl=4; h,r-ind=1,1
        [3,3]((11,18,75),(14,23,96),(6,10,41)); lvl=4; h,r-ind=1,1
        [3,3]((11,18,75),(19,31,130),(14,23,96)); lvl=4; h,r-ind=1,1
      [4,3]((5,8,35),(5,8,34),(19,31,130),(3,5,21)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((8,13,55),(5,8,34),(19,31,130)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,21),(8,13,55),(19,31,130)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,35),(8,13,55),(5,8,34)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,21),(5,8,35),(8,13,55)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,8),(4,7,28),(6,10,41),(3,5,21)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,28),(6,10,41),(7,12,49)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,21),(6,10,41),(7,12,49)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,8),(4,7,28),(7,12,49)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,21),(1,2,8),(7,12,49)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,8),(1,2,7),(4,7,28)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,7),(4,7,28),(6,10,41),(3,5,20)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,28),(6,10,41),(7,12,48)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,20),(6,10,41),(7,12,48)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,7),(4,7,28),(7,12,48)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,20),(1,2,7),(7,12,48)); lvl=3; h,r-ind=1,1
    [4,3]((6,10,41),(10,16,67),(5,8,32),(3,5,20)); lvl=2; h,r-ind=1,1
      [4,3]((19,31,127),(3,5,20),(5,8,32),(5,8,33)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,5,20),(5,8,32),(8,13,53)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,33),(5,8,32),(8,13,53)); lvl=4; h,r-ind=1,1
        [3,3]((19,31,127),(5,8,33),(8,13,53)); lvl=4; h,r-ind=1,1
        [3,3]((19,31,127),(3,5,20),(8,13,53)); lvl=4; h,r-ind=1,1
      [4,3]((19,31,127),(11,18,74),(8,13,54),(5,8,33)); lvl=3; h,r-ind=1,1
        [3,3]((16,26,107),(11,18,74),(8,13,54)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,33),(16,26,107),(8,13,54)); lvl=4; h,r-ind=1,1
        [3,3]((19,31,127),(16,26,107),(11,18,74)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,33),(19,31,127),(16,26,107)); lvl=4; h,r-ind=1,1
      [3,3]((8,13,54),(10,16,67),(5,8,33)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,41),(11,18,74),(8,13,54)); lvl=3; h,r-ind=1,1
      [4,3]((6,10,41),(19,31,127),(11,18,74),(3,5,20)); lvl=3; h,r-ind=1,1
        [3,3]((14,23,94),(11,18,74),(19,31,127)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,20),(14,23,94),(19,31,127)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,41),(3,5,20),(14,23,94)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,41),(14,23,94),(11,18,74)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,7),(3,5,20),(3,5,19)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,32),(3,5,20),(3,5,19)); lvl=2; h,r-ind=1,1
[3,3]((3,5,24),(1,2,8),(3,5,22)); lvl=1; h,r-ind=2,2; optimized-h
[6,3]((3,4,18),(9,14,63),(5,8,35),(4,5,22),(2,3,12),(5,8,32)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,13),(5,8,32),(10,16,67)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,3,13),(5,8,35),(10,16,67)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,3,13),(7,11,49),(5,8,35)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,27),(2,3,13),(9,14,63),(7,11,49)); lvl=2; h,r-ind=1,1
      [3,3]((7,11,49),(2,3,13),(11,17,76)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,27),(2,3,13),(11,17,76)); lvl=3; h,r-ind=1,1
      [3,3]((9,14,63),(4,6,27),(11,17,76)); lvl=3; h,r-ind=1,1
      [3,3]((9,14,63),(7,11,49),(11,17,76)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,18),(4,6,27),(2,3,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,13),(2,3,12),(5,8,32)); lvl=2; h,r-ind=1,1
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  [3,3]((2,3,13),(3,4,17),(2,3,12)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,13),(4,5,22),(3,4,17)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,18),(2,3,13),(4,5,22)); lvl=2; h,r-ind=1,1
[4,3]((3,5,24),(9,11,51),(3,4,18),(9,14,63)); lvl=1; h,r-ind=9,3
  [3,3]((2,3,14),(4,5,23),(3,4,18)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,14),(4,6,27),(3,4,18)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,14),(9,14,63),(12,19,87),(4,6,27)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,27),(13,20,91),(7,11,50),(9,14,63)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((13,20,91),(11,17,77),(7,11,50)); lvl=4; h,r-ind=1,1
      [3,3]((9,14,63),(11,17,77),(7,11,50)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,27),(9,14,63),(11,17,77)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,27),(13,20,91),(11,17,77)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,14),(4,6,27),(13,20,91)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,14),(13,20,91),(7,11,50)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,14),(12,19,87),(7,11,50)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,24),(2,3,14),(12,19,87)); lvl=2; h,r-ind=3,3; optimized-h
  [4,3]((12,16,75),(2,3,14),(9,11,51),(4,5,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,14),(4,5,23),(13,17,79)); lvl=3; h,r-ind=1,1
    [4,3]((9,11,51),(7,9,42),(4,5,23),(13,17,79)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((11,14,65),(7,9,42),(13,17,79)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,23),(11,14,65),(13,17,79)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,51),(11,14,65),(7,9,42)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,23),(9,11,51),(11,14,65)); lvl=4; h,r-ind=1,1
    [3,3]((7,9,42),(2,3,14),(13,17,79)); lvl=3; h,r-ind=1,1
    [3,3]((12,16,75),(7,9,42),(2,3,14)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,24),(12,16,75),(2,3,14)); lvl=2; h,r-ind=3,3; optimized-h
[4,3]((3,5,24),(3,5,22),(9,14,63),(5,8,35)); lvl=1; h,r-ind=2,1
  [3,3]((5,8,36),(5,8,35),(3,5,22)); lvl=2; h,r-ind=1,1
  [3,3]((5,8,36),(3,5,23),(3,5,22)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,24),(12,19,87),(5,8,36),(3,5,23)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,37),(5,8,36),(13,21,96)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,23),(5,8,36),(13,21,96)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,23),(3,5,24),(5,8,37),(13,21,96)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((8,13,60),(5,8,37),(3,5,24)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,23),(8,13,60),(3,5,24)); lvl=4; h,r-ind=1,1
      [3,3]((13,21,96),(8,13,60),(5,8,37)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,23),(13,21,96),(8,13,60)); lvl=4; h,r-ind=1,1
    [3,3]((5,8,37),(12,19,87),(5,8,36)); lvl=3; h,r-ind=1,1
  [3,3]((5,8,36),(7,11,49),(5,8,35)); lvl=2; h,r-ind=1,1
  [4,3]((12,19,87),(5,8,36),(9,14,63),(7,11,49)); lvl=2; h,r-ind=1,1
    [3,3]((19,30,135),(7,11,49),(5,8,36)); lvl=3; h,r-ind=1,1
    [3,3]((7,11,50),(19,30,135),(5,8,36)); lvl=3; h,r-ind=1,1
    [3,3]((12,19,87),(7,11,50),(5,8,36)); lvl=3; h,r-ind=1,1
    [4,3]((7,11,50),(19,30,135),(9,14,63),(7,11,49)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((14,22,99),(7,11,49),(19,30,135)); lvl=4; h,r-ind=1,1
      [3,3]((7,11,50),(14,22,99),(19,30,135)); lvl=4; h,r-ind=1,1
      [3,3]((9,14,63),(14,22,99),(7,11,49)); lvl=4; h,r-ind=1,1
      [3,3]((7,11,50),(9,14,63),(14,22,99)); lvl=4; h,r-ind=1,1
[4,3]((0,1,0),(1,0,0),(4,6,15),(3,5,12)); lvl=1; h,r-ind=3,1
  [4,3]((3,4,9),(5,6,15),(4,6,15),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((11,15,36),(2,3,7),(4,6,15),(3,4,10)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((5,7,17),(2,3,7),(4,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,17),(3,4,10),(4,6,15)); lvl=4; h,r-ind=1,1
      [3,3]((11,15,36),(5,7,17),(3,4,10)); lvl=4; h,r-ind=1,1
      [3,3]((11,15,36),(5,7,17),(2,3,7)); lvl=4; h,r-ind=1,1
    [4,3]((11,15,36),(6,8,19),(4,5,12),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,19),(9,12,29),(4,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(9,12,29),(4,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((11,15,36),(6,8,19),(9,12,29)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(11,15,36),(9,12,29)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,12),(5,6,15),(3,4,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,9),(6,8,19),(4,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,9),(11,15,36),(6,8,19),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,19),(11,15,36),(8,11,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(11,15,36),(8,11,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(6,8,19),(8,11,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(3,4,9),(8,11,26)); lvl=4; h,r-ind=1,1
  [3,3]((3,5,12),(4,6,15),(2,3,7)); lvl=2; h,r-ind=1,1
  [4,3]((4,6,13),(3,4,9),(5,7,15),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((7,10,22),(5,7,15),(3,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(7,10,22),(3,4,9)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,13),(2,3,7),(7,10,22)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,13),(7,10,22),(5,7,15)); lvl=3; h,r-ind=1,1
  [4,3]((3,5,12),(1,2,4),(4,6,13),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(4,6,13),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(4,6,13),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,12),(2,3,7),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,12),(1,2,4),(3,5,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,4),(0,1,0),(1,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,9),(1,1,2),(1,0,0),(5,6,15)); lvl=2; h,r-ind=1,1
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    [4,3]((2,2,5),(8,9,21),(1,1,2),(1,0,0)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((3,3,7),(8,9,21),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(3,3,7),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,5),(1,0,0),(3,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,5),(3,3,7),(8,9,21)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,9),(8,9,21),(5,6,14),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,16),(8,9,21),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(6,7,16),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,16),(1,1,2),(8,9,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,9),(6,7,16),(1,1,2)); lvl=4; h,r-ind=1,1
    [4,3]((4,5,12),(2,2,5),(8,9,21),(5,6,14)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,19),(2,2,5),(8,9,21)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,19),(5,6,14),(8,9,21)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,12),(7,8,19),(5,6,14)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,12),(7,8,19),(2,2,5)); lvl=4; h,r-ind=1,1
    [3,3]((5,6,15),(4,5,12),(2,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,9),(4,5,12),(5,6,14)); lvl=3; h,r-ind=1,1
  [3,3]((2,2,3),(1,1,2),(1,0,0)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,4),(2,2,3),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,9),(5,7,15),(1,1,2),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((6,8,17),(3,4,8),(5,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,9),(6,8,17),(5,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(6,8,17),(3,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,9),(1,1,2),(6,8,17)); lvl=3; h,r-ind=1,1
  [5,3]((2,3,4),(2,2,3),(2,3,5),(1,1,2),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(3,4,7),(3,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,7),(3,4,8)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,5),(5,7,11),(3,4,7),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,18),(6,8,13),(3,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(8,11,18),(3,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(8,11,18),(6,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(5,7,11),(8,11,18)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,4),(2,3,5),(5,7,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,4),(4,5,8),(5,7,11),(6,8,13)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,6),(4,5,8),(6,8,13),(14,19,30)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((9,12,19),(4,5,8),(6,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((14,19,30),(9,12,19),(6,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,6),(14,19,30),(9,12,19)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,6),(9,12,19),(4,5,8)); lvl=5; h,r-ind=1,1
      [3,3]((5,7,11),(6,8,13),(14,19,30)); lvl=4; h,r-ind=1,1
      [4,3]((5,7,11),(2,3,4),(3,4,6),(14,19,30)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,6),(2,3,4),(8,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,11),(2,3,4),(8,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((14,19,30),(3,4,6),(8,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((5,7,11),(14,19,30),(8,11,17)); lvl=5; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(4,5,8)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((4,5,8),(1,1,2),(3,4,7),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,15),(3,4,7),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(7,9,15),(1,1,2)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,13),(7,9,15),(3,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(6,8,13),(7,9,15)); lvl=4; h,r-ind=1,1
    [3,3]((2,2,3),(4,5,8),(1,1,2)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,3),(2,3,4),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(2,3,4),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,4),(3,5,7),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,10),(1,2,2),(3,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(4,7,10)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=4; h,r-ind=1,1
  [6,3]((1,2,4),(1,2,3),(4,6,13),(5,7,15),(2,3,5),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,5),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,6),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,6),(4,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,5),(3,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(3,4,8),(5,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(4,6,13),(5,7,15)); lvl=3; h,r-ind=1,1
[5,3]((1,0,0),(4,6,15),(4,5,22),(2,3,12),(2,2,9)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,12),(4,6,19),(2,2,7),(1,1,4)); lvl=2; h,r-ind=1,1
    [5,3]((2,3,10),(3,4,14),(5,6,21),(9,11,39),(3,4,13)); lvl=3; h,r-ind=1,1
      [4,3]((12,16,55),(3,4,14),(8,10,35),(7,9,31)); lvl=4; h,r-ind=1,2; alert-r-inc
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      [3,3]((10,13,45),(8,10,35),(3,4,14)); lvl=5; h,r-ind=1,1
      [3,3]((12,16,55),(10,13,45),(3,4,14)); lvl=5; h,r-ind=1,1
      [3,3]((7,9,31),(12,16,55),(10,13,45)); lvl=5; h,r-ind=1,1
      [3,3]((7,9,31),(10,13,45),(8,10,35)); lvl=5; h,r-ind=1,1
    [4,3]((5,6,21),(4,5,17),(8,10,35),(7,9,31)); lvl=4; h,r-ind=1,1
      [3,3]((12,15,52),(7,9,31),(4,5,17)); lvl=5; h,r-ind=1,1
      [3,3]((5,6,21),(12,15,52),(4,5,17)); lvl=5; h,r-ind=1,1
      [3,3]((8,10,35),(12,15,52),(7,9,31)); lvl=5; h,r-ind=1,1
      [3,3]((5,6,21),(8,10,35),(12,15,52)); lvl=5; h,r-ind=1,1
    [5,3]((2,3,10),(12,16,55),(3,4,13),(4,5,17),(7,9,31)); lvl=4; h,r-ind=1,1
      [3,3]((13,17,58),(4,5,17),(7,9,31)); lvl=5; h,r-ind=1,1
      [4,3]((9,12,41),(15,20,68),(13,17,58),(7,9,31)); lvl=5; h,r-ind=1,1
        [3,3]((22,29,99),(13,17,58),(15,20,68)); lvl=6; h,r-ind=1,1
        [3,3]((9,12,41),(22,29,99),(15,20,68)); lvl=6; h,r-ind=1,1
        [3,3]((7,9,31),(9,12,41),(22,29,99)); lvl=6; h,r-ind=1,1
        [3,3]((7,9,31),(22,29,99),(13,17,58)); lvl=6; h,r-ind=1,1
      [3,3]((12,16,55),(9,12,41),(7,9,31)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,10),(9,12,41),(15,20,68)); lvl=5; h,r-ind=1,1
      [3,3]((12,16,55),(2,3,10),(9,12,41)); lvl=5; h,r-ind=1,1
      [4,3]((6,8,27),(15,20,68),(13,17,58),(4,5,17)); lvl=5; h,r-ind=1,1
        [3,3]((19,25,85),(13,17,58),(15,20,68)); lvl=6; h,r-ind=1,1
        [3,3]((6,8,27),(19,25,85),(15,20,68)); lvl=6; h,r-ind=1,1
        [3,3]((4,5,17),(6,8,27),(19,25,85)); lvl=6; h,r-ind=1,1
        [3,3]((4,5,17),(19,25,85),(13,17,58)); lvl=6; h,r-ind=1,1
      [3,3]((3,4,13),(6,8,27),(4,5,17)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,10),(3,4,13),(6,8,27)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,10),(6,8,27),(15,20,68)); lvl=5; h,r-ind=1,1
    [3,3]((9,11,39),(5,6,21),(8,10,35)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,10),(12,16,55),(3,4,14)); lvl=4; h,r-ind=1,1
    [3,3]((9,11,39),(3,4,14),(8,10,35)); lvl=4; h,r-ind=1,1
  [3,3]((2,3,10),(4,6,19),(3,4,13)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,10),(4,6,21),(3,4,14)); lvl=3; h,r-ind=1,1
  [3,3]((2,2,7),(5,6,21),(3,4,13)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,1,4),(2,2,7),(5,6,21),(9,11,39)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,25),(2,2,7),(5,6,21)); lvl=4; h,r-ind=1,1
    [3,3]((9,11,39),(6,7,25),(5,6,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,4),(9,11,39),(6,7,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,4),(6,7,25),(2,2,7)); lvl=4; h,r-ind=1,1
  [5,3]((2,3,12),(4,6,21),(3,4,14),(1,1,4),(9,11,39)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,18),(3,4,14),(9,11,39)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,18),(1,1,4),(9,11,39)); lvl=4; h,r-ind=1,1
    [4,3]((7,9,33),(10,13,47),(4,5,18),(1,1,4)); lvl=4; h,r-ind=1,1
      [3,3]((10,13,47),(4,5,18),(11,14,51)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,4),(4,5,18),(11,14,51)); lvl=5; h,r-ind=1,1
      [3,3]((7,9,33),(10,13,47),(11,14,51)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,4),(7,9,33),(11,14,51)); lvl=5; h,r-ind=1,1
    [4,3]((2,3,12),(2,3,11),(7,9,33),(1,1,4)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((3,4,15),(2,3,11),(7,9,33)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,15),(1,1,4),(7,9,33)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,12),(3,4,15),(1,1,4)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,12),(3,4,15),(2,3,11)); lvl=5; h,r-ind=1,1
    [4,3]((9,12,43),(10,13,47),(4,5,18),(3,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((13,17,61),(4,5,18),(10,13,47)); lvl=5; h,r-ind=1,1
      [3,3]((9,12,43),(13,17,61),(10,13,47)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,14),(13,17,61),(4,5,18)); lvl=5; h,r-ind=1,1
      [3,3]((9,12,43),(3,4,14),(13,17,61)); lvl=5; h,r-ind=1,1
    [4,3]((5,7,25),(9,12,43),(4,6,21),(3,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((8,11,39),(3,4,14),(9,12,43)); lvl=5; h,r-ind=1,1
      [3,3]((5,7,25),(8,11,39),(9,12,43)); lvl=5; h,r-ind=1,1
      [3,3]((5,7,25),(4,6,21),(8,11,39)); lvl=5; h,r-ind=1,1
      [3,3]((4,6,21),(8,11,39),(3,4,14)); lvl=5; h,r-ind=1,1
    [3,3]((2,3,11),(5,7,25),(4,6,21)); lvl=4; h,r-ind=1,1
    [5,3]((2,3,11),(5,7,25),(7,9,33),(9,12,43),(10,13,47)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,29),(10,13,47),(9,12,43)); lvl=5; h,r-ind=1,1
      [3,3]((6,8,29),(5,7,25),(9,12,43)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,11),(6,8,29),(5,7,25)); lvl=5; h,r-ind=1,1
      [3,3]((6,8,29),(7,9,33),(10,13,47)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,11),(6,8,29),(7,9,33)); lvl=5; h,r-ind=1,1
[3,3]((1,0,0),(2,2,7),(1,1,4)); lvl=2; h,r-ind=1,1
[3,3]((3,4,17),(2,3,12),(1,1,4)); lvl=2; h,r-ind=1,1
[3,3]((4,5,22),(3,4,17),(1,1,4)); lvl=2; h,r-ind=1,1
[3,3]((2,2,9),(4,5,22),(1,1,4)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(2,2,9),(1,1,4)); lvl=2; h,r-ind=1,1
[4,3]((4,6,19),(2,3,8),(1,1,3),(2,2,7)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,9),(7,9,28),(1,1,3),(2,3,8)); lvl=3; h,r-ind=1,3; alert-r-inc
    [3,3]((3,4,12),(1,1,3),(7,9,28)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,9),(3,4,12),(7,9,28)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,8),(3,4,12),(1,1,3)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,9),(2,3,8),(3,4,12)); lvl=4; h,r-ind=1,1
  [3,3]((4,6,19),(2,3,9),(3,4,13)); lvl=3; h,r-ind=1,1
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      [4,3]((2,2,7),(4,5,16),(7,9,28),(1,1,3)); lvl=3; h,r-ind=1,1
        [3,3]((5,6,19),(4,5,16),(7,9,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(5,6,19),(7,9,28)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,7),(5,6,19),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,3),(2,2,7),(5,6,19)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,9),(3,4,13),(4,5,16),(7,9,28)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,13),(6,8,25),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,28),(6,8,25),(4,5,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(7,9,28),(6,8,25)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,9),(3,4,13),(6,8,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,7),(3,4,13),(4,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(2,2,7)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,15),(2,3,8),(5,6,15),(1,1,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,8),(6,8,21)); lvl=3; h,r-ind=1,1
      [4,3]((4,6,15),(3,4,10),(2,3,8),(6,8,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,18),(6,8,21),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(5,7,18),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,18),(2,3,8),(6,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,15),(5,7,18),(2,3,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(1,1,3),(6,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,15),(3,4,10),(1,1,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(5,6,15),(1,1,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((9,11,51),(3,4,18),(4,5,22),(5,5,23),(2,2,9)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,27),(2,2,9),(4,5,22)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,27),(3,4,18),(4,5,22)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,27),(6,7,32),(3,4,18),(4,5,23)); lvl=2; h,r-ind=1,1
      [3,3]((9,11,50),(4,5,23),(6,7,32)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,27),(9,11,50),(6,7,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,18),(9,11,50),(4,5,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,27),(3,4,18),(9,11,50)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,27),(6,7,32),(19,21,96),(2,2,9)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((8,9,41),(6,7,32),(19,21,96)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,41),(2,2,9),(19,21,96)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,27),(8,9,41),(2,2,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,27),(8,9,41),(6,7,32)); lvl=3; h,r-ind=1,1
    [4,3]((19,21,96),(11,12,55),(5,5,23),(2,2,9)); lvl=2; h,r-ind=1,1
      [3,3]((13,14,64),(11,12,55),(5,5,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,9),(13,14,64),(5,5,23)); lvl=3; h,r-ind=1,1
      [3,3]((19,21,96),(2,2,9),(13,14,64)); lvl=3; h,r-ind=1,1
      [3,3]((19,21,96),(13,14,64),(11,12,55)); lvl=3; h,r-ind=1,1
    [3,3]((7,8,37),(11,12,55),(5,5,23)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [5,3]((7,8,37),(6,7,32),(19,21,96),(11,12,55),(4,5,23)); lvl=2; h,r-ind=1,1
      [4,3]((17,19,87),(15,17,78),(11,12,55),(9,10,46)); lvl=3; h,r-ind=1,1
        [3,3]((15,17,78),(9,10,46),(26,29,133)); lvl=4; h,r-ind=1,1
        [3,3]((11,12,55),(9,10,46),(26,29,133)); lvl=4; h,r-ind=1,1
        [3,3]((17,19,87),(15,17,78),(26,29,133)); lvl=4; h,r-ind=1,1
        [3,3]((11,12,55),(17,19,87),(26,29,133)); lvl=4; h,r-ind=1,1
      [5,3]((4,5,23),(7,8,37),(25,29,133),(15,17,78),(9,10,46)); lvl=3; h,r-ind=1,1
        [3,3]((15,17,78),(25,29,133),(19,22,101)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,23),(25,29,133),(19,22,101)); lvl=4; h,r-ind=1,1
        [4,3]((28,32,147),(32,37,170),(15,17,78),(19,22,101)); lvl=4; h,r-ind=1,1
          [3,3]((47,54,248),(19,22,101),(32,37,170)); lvl=5; h,r-ind=1,1
          [3,3]((28,32,147),(47,54,248),(32,37,170)); lvl=5; h,r-ind=1,1
          [3,3]((15,17,78),(47,54,248),(19,22,101)); lvl=5; h,r-ind=1,1
          [3,3]((28,32,147),(15,17,78),(47,54,248)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,23),(32,37,170),(19,22,101)); lvl=4; h,r-ind=1,1
        [3,3]((28,32,147),(9,10,46),(15,17,78)); lvl=4; h,r-ind=1,1
        [4,3]((28,32,147),(32,37,170),(13,15,69),(9,10,46)); lvl=4; h,r-ind=1,1
          [3,3]((41,47,216),(13,15,69),(32,37,170)); lvl=5; h,r-ind=1,1
          [3,3]((28,32,147),(41,47,216),(32,37,170)); lvl=5; h,r-ind=1,1
          [3,3]((9,10,46),(41,47,216),(13,15,69)); lvl=5; h,r-ind=1,1
          [3,3]((28,32,147),(9,10,46),(41,47,216)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,37),(13,15,69),(9,10,46)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,23),(7,8,37),(13,15,69)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,23),(32,37,170),(13,15,69)); lvl=4; h,r-ind=1,1
      [4,3]((6,7,32),(17,19,87),(25,29,133),(15,17,78)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((17,19,87),(15,17,78),(21,24,110)); lvl=4; h,r-ind=1,1
        [3,3]((25,29,133),(15,17,78),(21,24,110)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,32),(25,29,133),(21,24,110)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,32),(17,19,87),(21,24,110)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,23),(6,7,32),(25,29,133)); lvl=3; h,r-ind=1,1
      [3,3]((17,19,87),(19,21,96),(11,12,55)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,32),(17,19,87),(19,21,96)); lvl=3; h,r-ind=1,1
    [3,3]((7,8,37),(9,11,51),(4,5,23)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(5,5,23),(2,2,9)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,24),(1,0,0),(9,11,51),(5,5,23)); lvl=1; h,r-ind=1,1
    [4,3]((8,10,47),(11,13,61),(6,7,33),(3,4,19)); lvl=2; h,r-ind=1,1
      [3,3]((14,17,80),(11,13,61),(6,7,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,19),(14,17,80),(6,7,33)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,47),(3,4,19),(14,17,80)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((8,10,47),(14,17,80),(11,13,61)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,24),(12,16,75),(8,10,47),(3,4,19)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,19),(21,28,132),(8,10,47),(13,17,80)); lvl=3; h,r-ind=1,1
        [3,3]((16,21,99),(21,28,132),(13,17,80)); lvl=4; h,r-ind=1,1
        [3,3]((8,10,47),(16,21,99),(13,17,80)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,19),(8,10,47),(16,21,99)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,19),(16,21,99),(21,28,132)); lvl=4; h,r-ind=1,1
      [3,3]((10,13,61),(8,10,47),(13,17,80)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,33),(10,13,61),(21,28,132),(13,17,80)); lvl=3; h,r-ind=1,1
        [3,3]((18,24,113),(13,17,80),(10,13,61)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,33),(18,24,113),(10,13,61)); lvl=4; h,r-ind=1,1
        [3,3]((21,28,132),(5,7,33),(18,24,113)); lvl=4; h,r-ind=1,1
        [3,3]((21,28,132),(18,24,113),(13,17,80)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,19),(3,5,24),(5,7,33),(21,28,132)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,5,24),(8,11,52),(5,7,33)); lvl=4; h,r-ind=1,1
        [3,3]((21,28,132),(8,11,52),(5,7,33)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,19),(21,28,132),(8,11,52)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,19),(3,5,24),(8,11,52)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,33),(10,13,61),(12,16,75)); lvl=3; h,r-ind=1,1
    [6,3]((9,11,51),(7,8,37),(8,9,42),(12,16,75),(8,10,47),(11,13,61)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,28),(11,13,61),(8,9,42)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,37),(5,6,28),(8,9,42)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,51),(7,8,37),(5,6,28)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,28),(8,10,47),(11,13,61)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,28),(10,13,61),(8,10,47)); lvl=3; h,r-ind=1,1
      [4,3]((7,9,42),(5,6,28),(12,16,75),(10,13,61)); lvl=3; h,r-ind=1,1
        [3,3]((5,6,28),(10,13,61),(17,22,103)); lvl=4; h,r-ind=1,1
        [3,3]((12,16,75),(10,13,61),(17,22,103)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,42),(12,16,75),(17,22,103)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,42),(5,6,28),(17,22,103)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,51),(7,9,42),(5,6,28)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,33),(1,0,0),(3,4,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,24),(1,0,0),(3,4,19)); lvl=2; h,r-ind=1,1
    [4,3]((8,9,42),(11,13,61),(6,7,33),(3,3,14)); lvl=2; h,r-ind=1,1
      [3,3]((14,16,75),(6,7,33),(11,13,61)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,42),(14,16,75),(11,13,61)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,14),(14,16,75),(6,7,33)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,42),(3,3,14),(14,16,75)); lvl=3; h,r-ind=1,1
    [4,3]((7,8,37),(8,9,42),(5,5,23),(3,3,14)); lvl=2; h,r-ind=1,1
      [3,3]((10,11,51),(5,5,23),(3,3,14)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,42),(10,11,51),(3,3,14)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,37),(8,9,42),(10,11,51)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,37),(10,11,51),(5,5,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(5,5,23),(3,3,14)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,33),(1,0,0),(3,3,14)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,7),(3,5,12),(3,5,19)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,11),(1,2,6),(6,10,31),(3,5,19)); lvl=2; h,r-ind=1,1
      [3,3]((5,9,28),(3,5,17),(3,5,16)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [5,3]((4,7,21),(5,9,28),(13,24,73),(7,13,39),(3,5,16)); lvl=3; h,r-ind=1,1
        [5,3]((10,18,55),(3,5,16),(4,7,22),(11,20,60),(4,7,21)); lvl=4; h,r-ind=1,1
          [3,3]((4,7,22),(12,21,65),(3,5,16)); lvl=5; h,r-ind=1,1
          [4,3]((5,9,27),(4,7,21),(12,21,65),(3,5,16)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((4,7,21),(3,5,16),(8,14,43)); lvl=6; h,r-ind=1,1
            [3,3]((12,21,65),(3,5,16),(8,14,43)); lvl=6; h,r-ind=1,1
            [3,3]((5,9,27),(12,21,65),(8,14,43)); lvl=6; h,r-ind=1,1
            [3,3]((5,9,27),(4,7,21),(8,14,43)); lvl=6; h,r-ind=1,1
          [4,3]((5,9,27),(4,7,22),(19,34,104),(12,21,65)); lvl=5; h,r-ind=1,1
            [3,3]((19,34,104),(9,16,49),(4,7,22)); lvl=6; h,r-ind=1,1
            [3,3]((12,21,65),(9,16,49),(4,7,22)); lvl=6; h,r-ind=1,1
            [3,3]((5,9,27),(12,21,65),(9,16,49)); lvl=6; h,r-ind=1,1
            [3,3]((5,9,27),(19,34,104),(9,16,49)); lvl=6; h,r-ind=1,1
          [4,3]((10,18,55),(11,20,60),(5,9,27),(19,34,104)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((15,27,82),(11,20,60),(5,9,27)); lvl=6; h,r-ind=1,1
            [3,3]((19,34,104),(15,27,82),(5,9,27)); lvl=6; h,r-ind=1,1
            [3,3]((10,18,55),(19,34,104),(15,27,82)); lvl=6; h,r-ind=1,1
            [3,3]((10,18,55),(15,27,82),(11,20,60)); lvl=6; h,r-ind=1,1
          [3,3]((10,18,55),(4,7,22),(19,34,104)); lvl=5; h,r-ind=1,1
        [4,3]((5,9,28),(10,18,55),(12,22,67),(4,7,22)); lvl=4; h,r-ind=1,1
          [4,3]((5,9,28),(20,36,111),(12,22,67),(11,20,61)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((20,36,111),(16,29,89),(11,20,61)); lvl=6; h,r-ind=1,1
            [3,3]((12,22,67),(16,29,89),(11,20,61)); lvl=6; h,r-ind=1,1
            [3,3]((5,9,28),(12,22,67),(16,29,89)); lvl=6; h,r-ind=1,1
            [3,3]((5,9,28),(20,36,111),(16,29,89)); lvl=6; h,r-ind=1,1
          [4,3]((4,7,22),(20,36,111),(10,18,55),(11,20,61)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((20,36,111),(11,20,61),(15,27,83)); lvl=6; h,r-ind=1,1
            [3,3]((10,18,55),(11,20,61),(15,27,83)); lvl=6; h,r-ind=1,1
            [3,3]((4,7,22),(10,18,55),(15,27,83)); lvl=6; h,r-ind=1,1
            [3,3]((4,7,22),(20,36,111),(15,27,83)); lvl=6; h,r-ind=1,1
          [3,3]((4,7,22),(5,9,28),(20,36,111)); lvl=5; h,r-ind=1,1
        [4,3]((10,18,55),(12,22,67),(7,13,39),(11,20,60)); lvl=4; h,r-ind=1,1
```

```
          [4,3]((11,20,61),(12,22,67),(7,13,39),(6,11,33)); lvl=5; h,r-ind=1,1
            [3,3]((18,33,100),(7,13,39),(12,22,67)); lvl=6; h,r-ind=1,1
            [3,3]((11,20,61),(18,33,100),(12,22,67)); lvl=6; h,r-ind=1,1
            [3,3]((6,11,33),(11,20,61),(18,33,100)); lvl=6; h,r-ind=1,1
            [3,3]((6,11,33),(18,33,100),(7,13,39)); lvl=6; h,r-ind=1,1
          [3,3]((10,18,55),(11,20,61),(6,11,33)); lvl=5; h,r-ind=1,1
          [3,3]((10,18,55),(11,20,60),(6,11,33)); lvl=5; h,r-ind=1,1
        [3,3]((12,22,67),(13,24,73),(7,13,39)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,28),(12,22,67),(13,24,73)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,21),(6,10,31),(3,5,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,11),(4,7,21),(7,13,39)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((2,4,11),(1,2,6),(13,24,73),(7,13,39)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,6),(8,15,45),(13,24,73)); lvl=4; h,r-ind=1,1
        [3,3]((7,13,39),(8,15,45),(13,24,73)); lvl=4; h,r-ind=1,1
        [3,3]((7,13,39),(2,4,11),(8,15,45)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,11),(1,2,6),(8,15,45)); lvl=4; h,r-ind=1,1
      [5,3]((1,2,6),(5,9,28),(13,24,73),(3,5,19),(3,5,17)); lvl=3; h,r-ind=1,1
        [3,3]((5,9,29),(3,5,17),(3,5,18)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
        [4,3]((1,2,6),(5,9,29),(3,5,19),(3,5,18)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,19),(4,7,24),(3,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((5,9,29),(4,7,24),(3,5,18)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(5,9,29),(4,7,24)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(3,5,19),(4,7,24)); lvl=5; h,r-ind=1,1
        [4,3]((5,9,29),(10,18,57),(9,16,51),(3,5,17)); lvl=4; h,r-ind=1,1
          [3,3]((10,18,57),(23,41,131),(9,16,51)); lvl=5; h,r-ind=1,1
          [4,3]((4,7,23),(3,5,17),(23,41,131),(9,16,51)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((13,23,74),(3,5,17),(9,16,51)); lvl=6; h,r-ind=1,1
            [3,3]((23,41,131),(13,23,74),(9,16,51)); lvl=6; h,r-ind=1,1
            [3,3]((4,7,23),(23,41,131),(13,23,74)); lvl=6; h,r-ind=1,1
            [3,3]((4,7,23),(13,23,74),(3,5,17)); lvl=6; h,r-ind=1,1
          [4,3]((5,9,29),(4,7,23),(10,18,57),(23,41,131)); lvl=5; h,r-ind=1,2; alert-r-inc
            [3,3]((14,25,80),(4,7,23),(23,41,131)); lvl=6; h,r-ind=1,1
            [3,3]((14,25,80),(10,18,57),(23,41,131)); lvl=6; h,r-ind=1,1
            [3,3]((5,9,29),(14,25,80),(10,18,57)); lvl=6; h,r-ind=1,1
            [3,3]((5,9,29),(14,25,80),(4,7,23)); lvl=6; h,r-ind=1,1
        [3,3]((5,9,28),(9,16,51),(3,5,17)); lvl=4; h,r-ind=1,1
        [4,3]((1,2,6),(5,9,29),(6,11,34),(10,18,57)); lvl=4; h,r-ind=1,1
          [3,3]((5,9,29),(10,18,57),(11,20,63)); lvl=5; h,r-ind=1,1
          [3,3]((6,11,34),(10,18,57),(11,20,63)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,6),(5,9,29),(11,20,63)); lvl=5; h,r-ind=1,1
          [3,3]((6,11,34),(1,2,6),(11,20,63)); lvl=5; h,r-ind=1,1
        [4,3]((5,9,28),(6,11,34),(10,18,57),(9,16,51)); lvl=4; h,r-ind=1,1
          [3,3]((15,27,85),(10,18,57),(6,11,34)); lvl=5; h,r-ind=1,1
          [3,3]((5,9,28),(15,27,85),(6,11,34)); lvl=5; h,r-ind=1,1
          [3,3]((9,16,51),(5,9,28),(15,27,85)); lvl=5; h,r-ind=1,1
          [3,3]((9,16,51),(15,27,85),(10,18,57)); lvl=5; h,r-ind=1,1
        [3,3]((13,24,73),(5,9,28),(6,11,34)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,6),(13,24,73),(6,11,34)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,7),(1,2,6),(3,5,19)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,11),(1,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,7),(0,1,0),(1,2,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,11),(1,2,4),(3,5,12),(6,10,31)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,5),(3,5,14),(1,2,4),(3,5,12)); lvl=3; h,r-ind=1,1
        [4,3]((1,2,4),(5,9,22),(3,5,12),(3,5,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,12),(4,7,17),(3,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((5,9,22),(4,7,17),(3,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,4),(3,5,12),(4,7,17)); lvl=5; h,r-ind=1,1
          [3,3]((5,9,22),(1,2,4),(4,7,17)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,5),(5,9,22),(3,5,14),(3,5,13)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((3,5,14),(4,7,18),(3,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((5,9,22),(4,7,18),(3,5,13)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,5),(3,5,14),(4,7,18)); lvl=5; h,r-ind=1,1
          [3,3]((5,9,22),(1,2,5),(4,7,18)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(1,2,4),(5,9,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(3,5,15),(3,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,21),(1,2,5),(3,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,21),(6,10,31),(3,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,21),(2,4,11),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,11),(1,2,4)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,2,8),(0,1,0),(1,2,7)); lvl=1; h,r-ind=1,1
```

24.34 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,7,24)); lvl=0; h,r-ind=24,192
  [4,3]((2,5,12),(2,5,15),(3,8,24),(0,1,0)); lvl=1; h,r-ind=3,1
    [4,3]((1,3,8),(3,8,22),(3,8,21),(1,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,22),(3,8,21),(4,11,29)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,3,7),(3,8,21),(4,11,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(1,3,7),(4,11,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,8),(3,8,22),(4,11,29)); lvl=3; h,r-ind=1,1
    [5,3]((1,3,6),(2,5,12),(4,10,27),(3,8,21),(1,3,7)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,6),(2,5,13),(4,11,26),(2,5,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,19),(2,5,13),(4,11,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(3,8,19),(4,11,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(3,8,19),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(2,5,12),(3,8,19)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,7),(2,5,13),(4,11,26),(6,16,41)); lvl=3; h,r-ind=1,1
        [3,3]((4,11,26),(3,8,20),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((6,16,41),(3,8,20),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(4,11,26),(3,8,20)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(6,16,41),(3,8,20)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,13),(6,16,41),(4,10,27),(3,8,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,13,34),(6,16,41),(3,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,27),(5,13,34),(3,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,13),(5,13,34),(6,16,41)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,27),(2,5,13),(5,13,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(6,16,41),(3,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,3,7),(4,11,26)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,8),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(0,1,0),(1,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,15),(3,8,24),(1,3,8),(3,8,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,23),(1,3,8),(3,8,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,15),(3,8,23),(3,8,24)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,22),(3,8,23),(1,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,15),(3,8,22),(3,8,23)); lvl=3; h,r-ind=1,1
    [4,3]((4,10,27),(2,5,15),(3,8,22),(3,8,21)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,15),(2,5,14),(3,8,22),(8,21,57)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,14),(8,21,57),(5,13,36)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,22),(8,21,57),(5,13,36)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,15),(3,8,22),(5,13,36)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,15),(2,5,14),(5,13,36)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,21),(3,8,22),(8,21,57)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,21),(2,5,14),(8,21,57)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,27),(3,8,21),(2,5,14)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,12),(3,7,12),(3,7,17),(0,1,0)); lvl=1; h,r-ind=1,1
    [5,3]((6,14,29),(3,8,15),(2,5,10),(3,7,12),(3,8,12)); lvl=2; h,r-ind=1,1
      [4,3]((4,10,19),(2,5,9),(6,16,27),(3,8,15)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,9),(6,16,27),(3,8,14)); lvl=4; h,r-ind=1,1
        [3,3]((7,18,33),(2,5,9),(3,8,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,15),(7,18,33),(3,8,14)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
        [3,3]((4,10,19),(3,8,15),(7,18,33)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
        [3,3]((4,10,19),(7,18,33),(2,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,19),(2,5,10),(3,8,15)); lvl=3; h,r-ind=1,1
      [4,3]((6,14,29),(3,7,14),(4,10,19),(2,5,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,24),(3,7,14),(4,10,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(5,12,24),(4,10,19)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,29),(5,12,24),(3,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(6,14,29),(5,12,24)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,9),(3,8,12),(2,5,8),(6,16,27)); lvl=3; h,r-ind=1,1
        [4,3]((3,8,13),(2,5,8),(7,18,30),(3,8,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,5,8),(7,18,30),(5,13,21)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,13),(7,18,30),(5,13,21)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,12),(2,5,8),(5,13,21)); lvl=5; h,r-ind=1,1
          [3,3]((3,8,13),(3,8,12),(5,13,21)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,9),(3,8,13),(7,18,30)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(3,8,13),(6,16,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(2,5,8),(7,18,30)); lvl=4; h,r-ind=1,1
      [4,3]((6,14,27),(2,5,9),(3,7,12),(2,5,8)); lvl=3; h,r-ind=1,1
        [3,3]((7,17,30),(2,5,9),(2,5,8)); lvl=4; h,r-ind=1,1
        [4,3]((3,7,12),(3,7,13),(7,17,30),(2,5,8)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,12,21),(7,17,30),(3,7,13)); lvl=5; h,r-ind=1,1
          [3,3]((3,7,12),(5,12,21),(3,7,13)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,8),(3,7,12),(5,12,21)); lvl=5; h,r-ind=1,1
          [3,3]((2,5,8),(5,12,21),(7,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,13),(7,17,30),(2,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,27),(3,7,13),(2,5,9)); lvl=4; h,r-ind=1,1
      [4,3]((3,7,14),(6,14,27),(4,10,19),(2,5,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,23),(4,10,19),(2,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((6,14,27),(5,12,23),(2,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,14),(6,14,27),(5,12,23)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,14),(5,12,23),(4,10,19)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(3,8,15),(3,8,12)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((3,8,15),(2,5,10),(2,5,11),(3,8,16)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,10),(2,5,11),(5,13,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,16),(2,5,11),(5,13,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,15),(2,5,10),(5,13,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,16),(3,8,15),(5,13,26)); lvl=3; h,r-ind=1,1
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  [4,3]((1,3,6),(2,5,12),(2,5,11),(3,8,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,12),(3,8,17),(2,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,16),(3,8,17),(2,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(2,5,12),(3,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,16),(1,3,6),(3,8,17)); lvl=3; h,r-ind=1,1
  [4,3]((1,3,6),(0,1,0),(3,8,15),(3,8,16)); lvl=2; h,r-ind=1,1
    [4,3]((5,14,27),(3,8,16),(1,3,5),(3,8,15)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,11,21),(3,8,16),(3,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,21),(1,3,5),(3,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((5,14,27),(4,11,21),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((5,14,27),(4,11,21),(3,8,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(5,14,27),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(0,1,0),(1,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,6),(5,14,27),(3,8,16)); lvl=3; h,r-ind=1,1
  [4,3]((3,7,17),(6,14,29),(2,5,10),(2,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,15),(2,5,10),(6,14,29)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,15),(6,14,31),(9,22,47),(2,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(9,22,47),(5,12,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,10),(10,24,51),(5,12,26)); lvl=4; h,r-ind=1,1
      [4,3]((3,7,15),(6,14,31),(10,24,51),(5,12,26)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((8,19,41),(10,24,51),(5,12,26)); lvl=5; h,r-ind=1,1
        [3,3]((6,14,31),(8,19,41),(5,12,26)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,15),(8,19,41),(10,24,51)); lvl=5; h,r-ind=1,1
        [3,3]((6,14,31),(3,7,15),(8,19,41)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,10),(3,7,15),(10,24,51)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,11),(9,22,47),(2,5,10)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,17),(6,14,31),(2,5,11),(9,22,47)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((12,29,64),(2,5,11),(9,22,47),(5,12,26)); lvl=4; h,r-ind=1,3
        [3,3]((7,17,37),(2,5,11),(9,22,47)); lvl=5; h,r-ind=1,1
        [3,3]((7,17,37),(5,12,26),(9,22,47)); lvl=5; h,r-ind=1,1
        [3,3]((12,29,64),(7,17,37),(5,12,26)); lvl=5; h,r-ind=1,1
        [3,3]((12,29,64),(7,17,37),(2,5,11)); lvl=5; h,r-ind=1,1
      [3,3]((3,7,16),(12,29,64),(5,12,26)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((3,7,16),(6,14,31),(5,12,26)); lvl=4; h,r-ind=1,1
      [4,3]((3,7,16),(3,7,17),(12,29,64),(2,5,11)); lvl=4; h,r-ind=1,3
        [3,3]((5,12,27),(3,7,17),(2,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((12,29,64),(5,12,27),(2,5,11)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,16),(12,29,64),(5,12,27)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,16),(5,12,27),(3,7,17)); lvl=5; h,r-ind=1,1
  [3,3]((2,5,12),(3,7,17),(2,5,11)); lvl=2; h,r-ind=1,1
[4,3]((1,0,0),(1,1,2),(3,7,12),(0,1,0)); lvl=1; h,r-ind=2,2
  [3,3]((1,2,3),(2,4,7),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((2,2,3),(2,3,4),(1,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,3),(3,4,6)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(1,2,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(1,1,1),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,5),(1,1,1),(5,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(3,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(5,6,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(2,2,3),(1,1,1),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,2),(2,3,4),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(0,1,0)); lvl=2; h,r-ind=2,2; optimized-h
  [4,3]((1,2,3),(3,8,12),(3,7,12),(2,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,7),(5,11,18),(2,5,8),(3,7,12)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,9,15),(5,11,18),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,12),(4,9,15),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(3,7,12),(4,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(4,9,15),(5,11,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,7),(5,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(5,11,18),(2,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,8,12),(2,5,8)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,2),(1,2,3),(0,1,0),(3,8,12)); lvl=2; h,r-ind=1,2
    [3,3]((1,2,3),(3,8,12),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,6),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,6),(1,3,4)); lvl=3; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((1,2,2),(1,2,3),(2,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,5,6)); lvl=3; h,r-ind=2,2; alert-h-inc; optimized-h
[6,3]((2,5,12),(2,5,15),(3,7,17),(1,2,6),(5,11,36),(7,15,49)); lvl=1; h,r-ind=1,1
  [4,3]((2,5,12),(4,10,27),(3,7,18),(6,14,39)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((2,5,12),(2,5,13),(3,7,19),(3,7,18)); lvl=3; h,r-ind=1,1
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      [3,3]((5,12,31),(3,7,19),(2,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(5,12,31),(2,5,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,18),(2,5,12),(5,12,31)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,18),(5,12,31),(3,7,19)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,13),(5,12,33),(3,7,19)); lvl=3; h,r-ind=1,1
    [3,3]((5,12,33),(6,14,39),(3,7,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,13),(5,12,33),(4,10,27)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,6),(6,13,39),(3,7,18),(6,14,39)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [3,3]((3,7,19),(4,9,26),(9,20,57)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [4,3]((1,2,6),(6,13,39),(4,9,26),(9,20,57)); lvl=3; h,r-ind=1,3
      [3,3]((5,11,32),(4,9,26),(6,13,39)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(5,11,32),(6,13,39)); lvl=4; h,r-ind=1,1
      [3,3]((9,20,57),(5,11,32),(4,9,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(9,20,57),(5,11,32)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,6),(3,7,19),(3,7,18),(9,20,57)); lvl=3; h,r-ind=1,3
      [3,3]((4,9,25),(3,7,19),(3,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(4,9,25),(3,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((9,20,57),(4,9,25),(3,7,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(9,20,57),(4,9,25)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,19),(6,14,39),(4,9,26)); lvl=3; h,r-ind=1,1
  [3,3]((3,7,17),(1,2,6),(3,7,18)); lvl=2; h,r-ind=1,1
  [6,3]((7,16,51),(6,13,39),(9,20,63),(2,5,15),(4,10,27),(6,14,39)); lvl=2; h,r-ind=3,1; alert-h-inc
    [4,3]((4,9,26),(3,7,20),(6,14,39),(5,12,33)); lvl=3; h,r-ind=1,1
      [3,3]((9,21,59),(5,12,33),(3,7,20)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,26),(9,21,59),(3,7,20)); lvl=4; h,r-ind=1,1
      [3,3]((6,14,39),(9,21,59),(5,12,33)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,26),(6,14,39),(9,21,59)); lvl=4; h,r-ind=1,1
    [4,3]((2,5,14),(4,10,27),(3,7,20),(5,12,33)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,33),(4,10,27),(7,17,47)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,14),(4,10,27),(7,17,47)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,20),(2,5,14),(7,17,47)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,20),(5,12,33),(7,17,47)); lvl=4; h,r-ind=1,1
    [3,3]((4,9,27),(2,5,14),(3,7,20)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,22),(4,9,27),(2,5,15),(2,5,14)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,15),(2,5,14),(3,7,21)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,27),(2,5,14),(3,7,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,22),(4,9,27),(3,7,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,22),(2,5,15),(3,7,21)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,22),(4,9,28),(4,9,27)); lvl=3; h,r-ind=1,1
    [4,3]((7,16,51),(8,18,57),(3,7,22),(4,9,28)); lvl=3; h,r-ind=1,1
      [3,3]((8,18,57),(4,9,28),(11,25,79)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,22),(4,9,28),(11,25,79)); lvl=4; h,r-ind=1,1
      [3,3]((7,16,51),(3,7,22),(11,25,79)); lvl=4; h,r-ind=1,1
      [3,3]((7,16,51),(8,18,57),(11,25,79)); lvl=4; h,r-ind=1,1
    [3,3]((4,9,27),(4,9,26),(3,7,20)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,27),(6,13,39),(4,9,26)); lvl=3; h,r-ind=2,2; alert-r-inc; optimized-h
    [3,3]((4,9,27),(5,11,34),(6,13,39)); lvl=3; h,r-ind=2,2; alert-r-inc; optimized-h
    [3,3]((4,9,28),(4,9,27),(5,11,34)); lvl=3; h,r-ind=1,1
    [4,3]((8,18,57),(4,9,28),(9,20,63),(5,11,34)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,34),(4,9,28),(13,29,91)); lvl=4; h,r-ind=1,1
      [3,3]((8,18,57),(4,9,28),(13,29,91)); lvl=4; h,r-ind=1,1
      [3,3]((9,20,63),(8,18,57),(13,29,91)); lvl=4; h,r-ind=1,1
      [3,3]((9,20,63),(5,11,34),(13,29,91)); lvl=4; h,r-ind=1,1
  [4,3]((1,2,6),(6,13,39),(6,13,42),(9,20,63)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [3,3]((5,11,34),(5,11,35),(9,20,63)); lvl=3; h,r-ind=1,1
    [3,3]((12,26,81),(5,11,34),(5,11,35)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [4,3]((1,2,6),(6,13,42),(12,26,81),(5,11,35)); lvl=3; h,r-ind=1,3
      [3,3]((6,13,41),(5,11,35),(6,13,42)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(6,13,41),(6,13,42)); lvl=4; h,r-ind=1,1
      [3,3]((12,26,81),(6,13,41),(5,11,35)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(12,26,81),(6,13,41)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,6),(12,26,81),(5,11,34),(6,13,39)); lvl=3; h,r-ind=1,3
      [3,3]((6,13,40),(12,26,81),(5,11,34)); lvl=4; h,r-ind=1,1
      [3,3]((6,13,39),(6,13,40),(5,11,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(6,13,39),(6,13,40)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,6),(6,13,40),(12,26,81)); lvl=4; h,r-ind=1,1
  [4,3]((5,11,36),(7,16,51),(6,13,42),(9,20,63)); lvl=2; h,r-ind=3,1; alert-h-inc
    [3,3]((5,11,35),(8,18,57),(9,20,63)); lvl=3; h,r-ind=1,1
    [3,3]((5,11,35),(4,9,29),(8,18,57)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,29),(7,16,51),(8,18,57)); lvl=3; h,r-ind=1,1
    [4,3]((5,11,36),(6,13,42),(5,11,35),(4,9,29)); lvl=3; h,r-ind=1,1
      [3,3]((10,22,71),(5,11,35),(6,13,42)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,36),(10,22,71),(6,13,42)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,29),(10,22,71),(5,11,35)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,36),(4,9,29),(10,22,71)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,6),(7,15,49),(6,13,42)); lvl=2; h,r-ind=1,1
  [3,3]((5,11,36),(7,15,49),(6,13,42)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,12),(3,7,17),(3,7,18)); lvl=2; h,r-ind=1,1
[5,3]((1,1,3),(1,1,2),(3,7,12),(3,7,17),(1,2,6)); lvl=1; h,r-ind=1,2
  [4,3]((1,2,4),(1,1,2),(2,3,7),(2,4,9)); lvl=2; h,r-ind=1,1
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    [3,3]((1,1,2),(2,3,7),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(2,3,7),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,1,2),(3,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,9),(1,2,4),(3,5,11)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,3),(1,2,5),(2,3,7),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,5),(2,4,9),(3,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(2,4,9),(3,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(1,2,5),(3,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,7),(1,1,3),(3,5,12)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,5),(6,14,29),(3,7,17),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,19),(3,7,15),(6,14,29)); lvl=3; h,r-ind=1,1
    [5,3]((4,9,19),(6,13,29),(11,24,54),(4,9,20),(3,7,15)); lvl=3; h,r-ind=1,1
      [4,3]((10,22,49),(9,20,44),(5,11,24),(6,13,29)); lvl=4; h,r-ind=1,1
        [3,3]((15,33,73),(9,20,44),(5,11,24)); lvl=5; h,r-ind=1,1
        [3,3]((6,13,29),(15,33,73),(5,11,24)); lvl=5; h,r-ind=1,1
        [3,3]((10,22,49),(6,13,29),(15,33,73)); lvl=5; h,r-ind=1,1
        [3,3]((10,22,49),(15,33,73),(9,20,44)); lvl=5; h,r-ind=1,1
      [3,3]((10,22,49),(11,24,54),(6,13,29)); lvl=4; h,r-ind=1,1
      [5,3]((4,9,19),(3,7,15),(16,36,79),(9,20,44),(5,11,24)); lvl=4; h,r-ind=1,1
        [4,3]((20,45,98),(17,38,83),(12,27,59),(9,20,44)); lvl=5; h,r-ind=1,1
          [3,3]((29,65,142),(9,20,44),(17,38,83)); lvl=6; h,r-ind=1,1
          [3,3]((20,45,98),(29,65,142),(17,38,83)); lvl=6; h,r-ind=1,1
          [3,3]((12,27,59),(29,65,142),(9,20,44)); lvl=6; h,r-ind=1,1
          [3,3]((20,45,98),(12,27,59),(29,65,142)); lvl=6; h,r-ind=1,1
        [3,3]((16,36,79),(12,27,59),(9,20,44)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,15),(16,36,79),(12,27,59)); lvl=5; h,r-ind=1,1
        [3,3]((5,11,24),(17,38,83),(9,20,44)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,15),(20,45,98),(12,27,59)); lvl=5; h,r-ind=1,1
        [4,3]((5,11,24),(8,18,39),(20,45,98),(17,38,83)); lvl=5; h,r-ind=1,1
          [3,3]((25,56,122),(20,45,98),(8,18,39)); lvl=6; h,r-ind=1,1
          [3,3]((5,11,24),(25,56,122),(8,18,39)); lvl=6; h,r-ind=1,1
          [3,3]((17,38,83),(25,56,122),(20,45,98)); lvl=6; h,r-ind=1,1
          [3,3]((5,11,24),(17,38,83),(25,56,122)); lvl=6; h,r-ind=1,1
        [3,3]((4,9,19),(5,11,24),(8,18,39)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,15),(4,9,19),(8,18,39)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,15),(8,18,39),(20,45,98)); lvl=5; h,r-ind=1,1
      [4,3]((16,36,79),(10,22,49),(9,20,44),(4,9,20)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((9,20,44),(10,22,49),(13,29,64)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,20),(10,22,49),(13,29,64)); lvl=5; h,r-ind=1,1
        [3,3]((16,36,79),(9,20,44),(13,29,64)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,20),(16,36,79),(13,29,64)); lvl=5; h,r-ind=1,1
      [3,3]((10,22,49),(11,24,54),(4,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,15),(16,36,79),(4,9,20)); lvl=4; h,r-ind=1,1
    [3,3]((4,9,20),(6,14,31),(3,7,15)); lvl=3; h,r-ind=1,1
    [5,3]((1,2,5),(11,24,54),(4,9,20),(3,7,17),(6,14,31)); lvl=3; h,r-ind=1,1
      [4,3]((5,11,25),(12,27,61),(13,29,66),(4,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((12,27,61),(13,29,66),(17,38,86)); lvl=5; h,r-ind=1,1
        [3,3]((5,11,25),(13,29,66),(17,38,86)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,20),(5,11,25),(17,38,86)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,20),(12,27,61),(17,38,86)); lvl=5; h,r-ind=1,1
      [3,3]((11,24,54),(5,11,25),(4,9,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(11,24,54),(5,11,25)); lvl=4; h,r-ind=1,1
      [4,3]((6,14,31),(7,16,36),(12,27,61),(4,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,36),(11,25,56),(12,27,61)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,20),(11,25,56),(12,27,61)); lvl=5; h,r-ind=1,1
        [3,3]((6,14,31),(7,16,36),(11,25,56)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,20),(6,14,31),(11,25,56)); lvl=5; h,r-ind=1,1
      [3,3]((6,14,31),(7,16,36),(3,7,16)); lvl=4; h,r-ind=1,1
      [4,3]((1,2,5),(5,11,25),(13,29,66),(9,20,46)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,25),(13,29,66),(14,31,71)); lvl=5; h,r-ind=1,1
        [3,3]((9,20,46),(13,29,66),(14,31,71)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(5,11,25),(14,31,71)); lvl=5; h,r-ind=1,1
        [3,3]((9,20,46),(1,2,5),(14,31,71)); lvl=5; h,r-ind=1,1
      [5,3]((7,16,36),(12,27,61),(13,29,66),(3,7,16),(9,20,46)); lvl=4; h,r-ind=1,1
        [3,3]((13,29,66),(9,20,46),(8,18,41)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,16),(9,20,46),(8,18,41)); lvl=5; h,r-ind=1,1
        [3,3]((7,16,36),(3,7,16),(8,18,41)); lvl=5; h,r-ind=1,1
        [3,3]((12,27,61),(13,29,66),(8,18,41)); lvl=5; h,r-ind=1,1
        [3,3]((7,16,36),(12,27,61),(8,18,41)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,5),(3,7,17),(3,7,16),(9,20,46)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((4,9,21),(3,7,16),(3,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(4,9,21),(3,7,17)); lvl=5; h,r-ind=1,1
        [3,3]((9,20,46),(4,9,21),(3,7,16)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,5),(9,20,46),(4,9,21)); lvl=5; h,r-ind=1,1
    [3,3]((4,9,19),(2,4,9),(6,13,29)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,2,5),(2,4,9),(6,13,29),(11,24,54)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,34),(6,13,29),(2,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(7,15,34),(2,4,9)); lvl=4; h,r-ind=1,1
      [3,3]((7,15,34),(11,24,54),(6,13,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(7,15,34),(11,24,54)); lvl=4; h,r-ind=1,1
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  [3,3]((1,2,6),(1,2,5),(3,7,17)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,3),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,4),(3,7,12),(6,14,29),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,19),(3,7,14),(6,14,29)); lvl=3; h,r-ind=1,1
    [5,3]((6,13,27),(11,24,49),(4,9,19),(3,7,14),(4,9,18)); lvl=3; h,r-ind=1,1
      [4,3]((16,36,73),(9,20,41),(4,9,18),(10,22,45)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((9,20,41),(10,22,45),(13,29,59)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,18),(10,22,45),(13,29,59)); lvl=5; h,r-ind=1,1
        [3,3]((16,36,73),(9,20,41),(13,29,59)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,18),(16,36,73),(13,29,59)); lvl=5; h,r-ind=1,1
      [3,3]((11,24,49),(4,9,18),(10,22,45)); lvl=4; h,r-ind=1,1
      [3,3]((6,13,27),(11,24,49),(10,22,45)); lvl=4; h,r-ind=1,1
      [4,3]((6,13,27),(9,20,41),(5,11,23),(10,22,45)); lvl=4; h,r-ind=1,1
        [3,3]((15,33,68),(9,20,41),(5,11,23)); lvl=5; h,r-ind=1,1
        [3,3]((6,13,27),(15,33,68),(5,11,23)); lvl=5; h,r-ind=1,1
        [3,3]((10,22,45),(15,33,68),(9,20,41)); lvl=5; h,r-ind=1,1
        [3,3]((6,13,27),(10,22,45),(15,33,68)); lvl=5; h,r-ind=1,1
      [3,3]((16,36,73),(3,7,14),(4,9,18)); lvl=4; h,r-ind=1,1
      [5,3]((16,36,73),(9,20,41),(4,9,19),(5,11,23),(3,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((17,38,78),(5,11,23),(9,20,41)); lvl=5; h,r-ind=1,1
        [4,3]((12,27,55),(20,45,92),(17,38,78),(9,20,41)); lvl=5; h,r-ind=1,1
          [3,3]((29,65,133),(17,38,78),(20,45,92)); lvl=6; h,r-ind=1,1
          [3,3]((12,27,55),(29,65,133),(20,45,92)); lvl=6; h,r-ind=1,1
          [3,3]((9,20,41),(12,27,55),(29,65,133)); lvl=6; h,r-ind=1,1
          [3,3]((9,20,41),(29,65,133),(17,38,78)); lvl=6; h,r-ind=1,1
        [3,3]((16,36,73),(12,27,55),(9,20,41)); lvl=5; h,r-ind=1,1
        [3,3]((12,27,55),(20,45,92),(3,7,14)); lvl=5; h,r-ind=1,1
        [3,3]((16,36,73),(12,27,55),(3,7,14)); lvl=5; h,r-ind=1,1
        [4,3]((20,45,92),(17,38,78),(8,18,37),(5,11,23)); lvl=5; h,r-ind=1,1
          [3,3]((25,56,115),(5,11,23),(17,38,78)); lvl=6; h,r-ind=1,1
          [3,3]((20,45,92),(25,56,115),(17,38,78)); lvl=6; h,r-ind=1,1
          [3,3]((8,18,37),(25,56,115),(5,11,23)); lvl=6; h,r-ind=1,1
          [3,3]((20,45,92),(8,18,37),(25,56,115)); lvl=6; h,r-ind=1,1
        [3,3]((20,45,92),(8,18,37),(3,7,14)); lvl=5; h,r-ind=1,1
        [3,3]((8,18,37),(5,11,23),(4,9,19)); lvl=5; h,r-ind=1,1
        [3,3]((8,18,37),(3,7,14),(4,9,19)); lvl=5; h,r-ind=1,1
    [3,3]((3,7,14),(6,14,27),(4,9,18)); lvl=3; h,r-ind=1,1
    [5,3]((1,2,4),(11,24,49),(3,7,12),(6,14,27),(4,9,18)); lvl=3; h,r-ind=1,1
      [3,3]((7,16,31),(3,7,13),(6,14,27)); lvl=4; h,r-ind=1,1
      [4,3]((4,9,18),(12,27,53),(7,16,31),(6,14,27)); lvl=4; h,r-ind=1,1
        [3,3]((11,25,49),(12,27,53),(7,16,31)); lvl=5; h,r-ind=1,1
        [3,3]((6,14,27),(11,25,49),(7,16,31)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,18),(6,14,27),(11,25,49)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,18),(11,25,49),(12,27,53)); lvl=5; h,r-ind=1,1
      [3,3]((11,24,49),(4,9,18),(5,11,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(11,24,49),(5,11,22)); lvl=4; h,r-ind=1,1
      [5,3]((13,29,57),(9,20,39),(12,27,53),(7,16,31),(3,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((8,18,35),(7,16,31),(3,7,13)); lvl=5; h,r-ind=1,1
        [3,3]((9,20,39),(8,18,35),(3,7,13)); lvl=5; h,r-ind=1,1
        [3,3]((12,27,53),(8,18,35),(7,16,31)); lvl=5; h,r-ind=1,1
        [3,3]((13,29,57),(12,27,53),(8,18,35)); lvl=5; h,r-ind=1,1
        [3,3]((9,20,39),(13,29,57),(8,18,35)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,4),(9,20,39),(3,7,13),(3,7,12)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((4,9,17),(9,20,39),(3,7,13)); lvl=5; h,r-ind=1,1
        [3,3]((3,7,12),(4,9,17),(3,7,13)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(3,7,12),(4,9,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(4,9,17),(9,20,39)); lvl=5; h,r-ind=1,1
      [4,3]((4,9,18),(5,11,22),(13,29,57),(12,27,53)); lvl=4; h,r-ind=1,1
        [3,3]((17,38,75),(13,29,57),(5,11,22)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,18),(17,38,75),(5,11,22)); lvl=5; h,r-ind=1,1
        [3,3]((12,27,53),(17,38,75),(13,29,57)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,18),(12,27,53),(17,38,75)); lvl=5; h,r-ind=1,1
      [4,3]((1,2,4),(5,11,22),(13,29,57),(9,20,39)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,22),(13,29,57),(14,31,61)); lvl=5; h,r-ind=1,1
        [3,3]((9,20,39),(13,29,57),(14,31,61)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,4),(5,11,22),(14,31,61)); lvl=5; h,r-ind=1,1
        [3,3]((9,20,39),(1,2,4),(14,31,61)); lvl=5; h,r-ind=1,1
    [3,3]((2,4,9),(6,13,27),(4,9,19)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,2,4),(2,4,9),(6,13,27),(11,24,49)); lvl=3; h,r-ind=1,1
      [3,3]((7,15,31),(2,4,9),(6,13,27)); lvl=4; h,r-ind=1,1
      [3,3]((11,24,49),(7,15,31),(6,13,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(11,24,49),(7,15,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(7,15,31),(2,4,9)); lvl=4; h,r-ind=1,1
  [3,3]((1,1,3),(1,1,2),(2,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,4),(1,1,2),(2,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,4),(3,7,12),(2,4,7)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,1,3),(2,3,10)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
[5,3]((12,25,84),(1,1,3),(2,3,10),(1,2,6),(7,15,49)); lvl=1; h,r-ind=1,2
  [4,3]((7,15,49),(5,10,33),(19,40,133),(2,4,13)); lvl=2; h,r-ind=1,1
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  [3,3]((12,25,83),(5,10,33),(16,33,109)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,4,13),(29,60,198),(5,10,33),(16,33,109)); lvl=3; h,r-ind=1,1
    [3,3]((29,60,198),(18,37,122),(16,33,109)); lvl=4; h,r-ind=1,1
    [3,3]((5,10,33),(18,37,122),(16,33,109)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,13),(29,60,198),(18,37,122)); lvl=4; h,r-ind=1,1
    [3,3]((5,10,33),(2,4,13),(18,37,122)); lvl=4; h,r-ind=1,1
  [5,3]((7,15,49),(11,23,76),(17,36,119),(2,4,13),(29,60,198)); lvl=3; h,r-ind=1,1
    [4,3]((19,40,132),(32,67,221),(11,23,76),(17,36,119)); lvl=4; h,r-ind=1,1
      [3,3]((32,67,221),(11,23,76),(30,63,208)); lvl=5; h,r-ind=1,1
      [3,3]((17,36,119),(11,23,76),(30,63,208)); lvl=5; h,r-ind=1,1
      [3,3]((19,40,132),(32,67,221),(30,63,208)); lvl=5; h,r-ind=1,1
      [3,3]((19,40,132),(17,36,119),(30,63,208)); lvl=5; h,r-ind=1,1
    [3,3]((8,17,56),(19,40,132),(17,36,119)); lvl=4; h,r-ind=1,1
    [4,3]((32,67,221),(13,27,89),(34,71,234),(11,23,76)); lvl=4; h,r-ind=1,1
      [3,3]((13,27,89),(34,71,234),(45,94,310)); lvl=5; h,r-ind=1,1
      [3,3]((32,67,221),(34,71,234),(45,94,310)); lvl=5; h,r-ind=1,1
      [3,3]((11,23,76),(32,67,221),(45,94,310)); lvl=5; h,r-ind=1,1
      [3,3]((11,23,76),(13,27,89),(45,94,310)); lvl=5; h,r-ind=1,1
    [3,3]((13,27,89),(29,60,198),(11,23,76)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,13),(13,27,89),(29,60,198)); lvl=4; h,r-ind=1,1
    [5,3]((8,17,56),(19,40,132),(32,67,221),(34,71,234),(23,48,158)); lvl=4; h,r-ind=1,1
      [3,3]((32,67,221),(21,44,145),(19,40,132)); lvl=5; h,r-ind=1,1
      [3,3]((8,17,56),(21,44,145),(19,40,132)); lvl=5; h,r-ind=1,1
      [3,3]((32,67,221),(21,44,145),(34,71,234)); lvl=5; h,r-ind=1,1
      [3,3]((23,48,158),(21,44,145),(34,71,234)); lvl=5; h,r-ind=1,1
      [3,3]((8,17,56),(23,48,158),(21,44,145)); lvl=5; h,r-ind=1,1
    [4,3]((2,4,13),(13,27,89),(34,71,234),(23,48,158)); lvl=4; h,r-ind=1,1
      [3,3]((36,75,247),(34,71,234),(13,27,89)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,13),(36,75,247),(13,27,89)); lvl=5; h,r-ind=1,1
      [3,3]((23,48,158),(2,4,13),(36,75,247)); lvl=5; h,r-ind=1,1
      [3,3]((23,48,158),(36,75,247),(34,71,234)); lvl=5; h,r-ind=1,1
    [4,3]((8,17,56),(7,15,49),(2,4,13),(23,48,158)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((10,21,69),(7,15,49),(2,4,13)); lvl=5; h,r-ind=1,1
      [3,3]((23,48,158),(10,21,69),(2,4,13)); lvl=5; h,r-ind=1,1
      [3,3]((8,17,56),(23,48,158),(10,21,69)); lvl=5; h,r-ind=1,1
      [3,3]((8,17,56),(10,21,69),(7,15,49)); lvl=5; h,r-ind=1,1
  [5,3]((9,19,63),(11,23,76),(29,60,198),(12,25,83),(16,33,109)); lvl=3; h,r-ind=1,1
    [3,3]((16,33,109),(29,60,198),(27,56,185)); lvl=4; h,r-ind=1,1
    [3,3]((11,23,76),(29,60,198),(27,56,185)); lvl=4; h,r-ind=1,1
    [3,3]((9,19,63),(11,23,76),(45,94,311)); lvl=4; h,r-ind=1,1
    [4,3]((25,52,172),(14,29,96),(16,33,109),(27,56,185)); lvl=4; h,r-ind=1,1
      [3,3]((14,29,96),(16,33,109),(41,85,281)); lvl=5; h,r-ind=1,1
      [3,3]((27,56,185),(16,33,109),(41,85,281)); lvl=5; h,r-ind=1,1
      [3,3]((25,52,172),(14,29,96),(41,85,281)); lvl=5; h,r-ind=1,1
      [3,3]((27,56,185),(25,52,172),(41,85,281)); lvl=5; h,r-ind=1,1
    [4,3]((11,23,76),(45,94,311),(25,52,172),(27,56,185)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((45,94,311),(25,52,172),(36,75,248)); lvl=5; h,r-ind=1,1
      [3,3]((27,56,185),(25,52,172),(36,75,248)); lvl=5; h,r-ind=1,1
      [3,3]((11,23,76),(45,94,311),(36,75,248)); lvl=5; h,r-ind=1,1
      [3,3]((27,56,185),(11,23,76),(36,75,248)); lvl=5; h,r-ind=1,1
    [5,3]((9,19,63),(45,94,311),(25,52,172),(14,29,96),(12,25,83)); lvl=4; h,r-ind=1,1
      [3,3]((25,52,172),(34,71,235),(45,94,311)); lvl=5; h,r-ind=1,1
      [3,3]((9,19,63),(34,71,235),(45,94,311)); lvl=5; h,r-ind=1,1
      [4,3]((25,52,172),(48,100,331),(57,119,394),(34,71,235)); lvl=5; h,r-ind=1,1
        [3,3]((48,100,331),(57,119,394),(82,171,566)); lvl=6; h,r-ind=1,1
        [3,3]((34,71,235),(57,119,394),(82,171,566)); lvl=6; h,r-ind=1,1
        [3,3]((25,52,172),(48,100,331),(82,171,566)); lvl=6; h,r-ind=1,1
        [3,3]((34,71,235),(25,52,172),(82,171,566)); lvl=6; h,r-ind=1,1
      [3,3]((25,52,172),(48,100,331),(14,29,96)); lvl=5; h,r-ind=1,1
      [4,3]((48,100,331),(57,119,394),(23,48,159),(14,29,96)); lvl=5; h,r-ind=1,1
        [3,3]((71,148,490),(23,48,159),(57,119,394)); lvl=6; h,r-ind=1,1
        [3,3]((48,100,331),(71,148,490),(57,119,394)); lvl=6; h,r-ind=1,1
        [3,3]((14,29,96),(71,148,490),(23,48,159)); lvl=6; h,r-ind=1,1
        [3,3]((48,100,331),(14,29,96),(71,148,490)); lvl=6; h,r-ind=1,1
      [3,3]((12,25,83),(23,48,159),(14,29,96)); lvl=5; h,r-ind=1,1
      [3,3]((9,19,63),(12,25,83),(23,48,159)); lvl=5; h,r-ind=1,1
      [3,3]((9,19,63),(57,119,394),(23,48,159)); lvl=5; h,r-ind=1,1
      [3,3]((9,19,63),(57,119,394),(34,71,235)); lvl=5; h,r-ind=1,1
  [3,3]((9,19,63),(19,40,133),(12,25,83)); lvl=3; h,r-ind=1,1
  [3,3]((9,19,63),(11,23,76),(17,36,119)); lvl=3; h,r-ind=1,1
[4,3]((1,1,3),(5,10,33),(4,7,23),(2,4,13)); lvl=2; h,r-ind=1,1
  [3,3]((4,7,23),(5,10,33),(6,11,36)); lvl=3; h,r-ind=1,1
  [3,3]((2,4,13),(5,10,33),(6,11,36)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,3),(2,4,13),(6,11,36)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,3),(4,7,23),(6,11,36)); lvl=3; h,r-ind=1,1
[3,3]((1,2,6),(7,15,49),(2,4,13)); lvl=2; h,r-ind=1,1
[3,3]((1,1,3),(1,2,6),(2,4,13)); lvl=2; h,r-ind=1,1
[4,3]((5,10,33),(12,25,84),(19,40,133),(3,6,20)); lvl=2; h,r-ind=1,1
  [3,3]((10,21,70),(21,44,147),(13,27,90)); lvl=3; h,r-ind=1,1
  [5,3]((34,70,233),(3,6,20),(12,25,84),(21,44,147),(13,27,90)); lvl=3; h,r-ind=1,1
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      [4,3]((13,27,90),(16,33,110),(43,89,297),(40,83,277)); lvl=4; h,r-ind=1,1
        [3,3]((56,116,387),(43,89,297),(16,33,110)); lvl=5; h,r-ind=1,1
        [3,3]((13,27,90),(56,116,387),(16,33,110)); lvl=5; h,r-ind=1,1
        [3,3]((40,83,277),(56,116,387),(43,89,297)); lvl=5; h,r-ind=1,1
        [3,3]((13,27,90),(40,83,277),(56,116,387)); lvl=5; h,r-ind=1,1
      [5,3]((11,23,77),(24,50,167),(30,62,207),(43,89,297),(40,83,277)); lvl=4; h,r-ind=1,1
        [3,3]((43,89,297),(27,56,187),(40,83,277)); lvl=5; h,r-ind=1,1
        [3,3]((24,50,167),(27,56,187),(40,83,277)); lvl=5; h,r-ind=1,1
        [3,3]((11,23,77),(24,50,167),(27,56,187)); lvl=5; h,r-ind=1,1
        [3,3]((30,62,207),(43,89,297),(27,56,187)); lvl=5; h,r-ind=1,1
        [3,3]((11,23,77),(30,62,207),(27,56,187)); lvl=5; h,r-ind=1,1
      [4,3]((13,27,90),(21,44,147),(24,50,167),(40,83,277)); lvl=4; h,r-ind=1,1
        [3,3]((21,44,147),(37,77,257),(24,50,167)); lvl=5; h,r-ind=1,1
        [3,3]((40,83,277),(37,77,257),(24,50,167)); lvl=5; h,r-ind=1,1
        [3,3]((13,27,90),(40,83,277),(37,77,257)); lvl=5; h,r-ind=1,1
        [3,3]((13,27,90),(21,44,147),(37,77,257)); lvl=5; h,r-ind=1,1
      [4,3]((3,6,20),(12,25,84),(11,23,77),(30,62,207)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((14,29,97),(12,25,84),(11,23,77)); lvl=5; h,r-ind=1,1
        [3,3]((30,62,207),(14,29,97),(11,23,77)); lvl=5; h,r-ind=1,1
        [3,3]((3,6,20),(30,62,207),(14,29,97)); lvl=5; h,r-ind=1,1
        [3,3]((3,6,20),(14,29,97),(12,25,84)); lvl=5; h,r-ind=1,1
      [3,3]((21,44,147),(11,23,77),(24,50,167)); lvl=4; h,r-ind=1,1
      [3,3]((34,70,233),(13,27,90),(16,33,110)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,20),(34,70,233),(16,33,110)); lvl=4; h,r-ind=1,1
      [4,3]((3,6,20),(30,62,207),(16,33,110),(43,89,297)); lvl=4; h,r-ind=1,1
        [3,3]((30,62,207),(43,89,297),(46,95,317)); lvl=5; h,r-ind=1,1
        [3,3]((16,33,110),(43,89,297),(46,95,317)); lvl=5; h,r-ind=1,1
        [3,3]((3,6,20),(16,33,110),(46,95,317)); lvl=5; h,r-ind=1,1
        [3,3]((3,6,20),(30,62,207),(46,95,317)); lvl=5; h,r-ind=1,1
    [4,3]((5,10,33),(18,37,123),(34,70,233),(3,6,20)); lvl=3; h,r-ind=1,1
      [3,3]((21,43,143),(34,70,233),(18,37,123)); lvl=4; h,r-ind=1,1
      [3,3]((5,10,33),(21,43,143),(18,37,123)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,20),(5,10,33),(21,43,143)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,20),(21,43,143),(34,70,233)); lvl=4; h,r-ind=1,1
    [5,3]((18,37,123),(34,70,233),(12,25,83),(10,21,70),(13,27,90)); lvl=3; h,r-ind=1,1
      [4,3]((28,58,193),(31,64,213),(13,27,90),(51,106,353)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((41,85,283),(13,27,90),(31,64,213)); lvl=5; h,r-ind=1,1
        [3,3]((28,58,193),(41,85,283),(31,64,213)); lvl=5; h,r-ind=1,1
        [3,3]((51,106,353),(41,85,283),(13,27,90)); lvl=5; h,r-ind=1,1
        [3,3]((28,58,193),(51,106,353),(41,85,283)); lvl=5; h,r-ind=1,1
      [3,3]((10,21,70),(13,27,90),(51,106,353)); lvl=4; h,r-ind=1,1
      [5,3]((12,25,83),(15,31,103),(10,21,70),(28,58,193),(51,106,353)); lvl=4; h,r-ind=1,1
        [4,3]((63,131,436),(38,79,263),(28,58,193),(53,110,366)); lvl=5; h,r-ind=1,1
          [3,3]((38,79,263),(28,58,193),(91,189,629)); lvl=6; h,r-ind=1,1
          [3,3]((53,110,366),(28,58,193),(91,189,629)); lvl=6; h,r-ind=1,1
          [3,3]((63,131,436),(38,79,263),(91,189,629)); lvl=6; h,r-ind=1,1
          [3,3]((53,110,366),(63,131,436),(91,189,629)); lvl=6; h,r-ind=1,1
        [3,3]((15,31,103),(28,58,193),(53,110,366)); lvl=5; h,r-ind=1,1
        [4,3]((15,31,103),(25,52,173),(63,131,436),(53,110,366)); lvl=5; h,r-ind=1,1
          [3,3]((78,162,539),(63,131,436),(25,52,173)); lvl=6; h,r-ind=1,1
          [3,3]((15,31,103),(78,162,539),(25,52,173)); lvl=6; h,r-ind=1,1
          [3,3]((53,110,366),(78,162,539),(63,131,436)); lvl=6; h,r-ind=1,1
          [3,3]((15,31,103),(53,110,366),(78,162,539)); lvl=6; h,r-ind=1,1
        [3,3]((15,31,103),(12,25,83),(25,52,173)); lvl=5; h,r-ind=1,1
        [3,3]((10,21,70),(25,52,173),(63,131,436)); lvl=5; h,r-ind=1,1
        [3,3]((12,25,83),(10,21,70),(25,52,173)); lvl=5; h,r-ind=1,1
        [3,3]((10,21,70),(63,131,436),(38,79,263)); lvl=5; h,r-ind=1,1
        [3,3]((51,106,353),(38,79,263),(28,58,193)); lvl=5; h,r-ind=1,1
        [3,3]((10,21,70),(51,106,353),(38,79,263)); lvl=5; h,r-ind=1,1
      [4,3]((18,37,123),(15,31,103),(28,58,193),(31,64,213)); lvl=4; h,r-ind=1,1
        [3,3]((46,95,316),(28,58,193),(15,31,103)); lvl=5; h,r-ind=1,1
        [3,3]((18,37,123),(46,95,316),(15,31,103)); lvl=5; h,r-ind=1,1
        [3,3]((31,64,213),(46,95,316),(28,58,193)); lvl=5; h,r-ind=1,1
        [3,3]((18,37,123),(31,64,213),(46,95,316)); lvl=5; h,r-ind=1,1
      [3,3]((34,70,233),(31,64,213),(13,27,90)); lvl=4; h,r-ind=1,1
      [3,3]((18,37,123),(34,70,233),(31,64,213)); lvl=4; h,r-ind=1,1
    [3,3]((5,10,33),(18,37,123),(12,25,83)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((12,25,83),(19,40,133),(10,21,70)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,10),(5,10,33),(4,7,23),(3,6,20)); lvl=2; h,r-ind=1,1
    [3,3]((7,13,43),(5,10,33),(4,7,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(7,13,43),(4,7,23)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,20),(7,13,43),(5,10,33)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(3,6,20),(7,13,43)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,3),(2,3,10),(4,7,23)); lvl=2; h,r-ind=1,1
  [3,3]((7,14,47),(12,25,84),(3,6,20)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,10),(7,14,47),(3,6,20)); lvl=2; h,r-ind=1,1
[4,3]((1,0,0),(3,7,24),(12,25,84),(2,3,10)); lvl=1; h,r-ind=2,2
  [4,3]((4,8,27),(12,25,84),(7,14,47),(15,32,108)); lvl=2; h,r-ind=1,1
    [4,3]((20,41,138),(7,14,47),(9,19,64),(12,25,84)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((7,14,47),(12,25,84),(16,33,111)); lvl=4; h,r-ind=1,1
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      [3,3]((9,19,64),(12,25,84),(16,33,111)); lvl=4; h,r-ind=1,1
      [3,3]((20,41,138),(7,14,47),(16,33,111)); lvl=4; h,r-ind=1,1
      [3,3]((9,19,64),(20,41,138),(16,33,111)); lvl=4; h,r-ind=1,1
    [3,3]((4,8,27),(20,41,138),(9,19,64)); lvl=3; h,r-ind=1,1
    [3,3]((15,32,108),(4,8,27),(9,19,64)); lvl=3; h,r-ind=1,1
    [3,3]((4,8,27),(20,41,138),(7,14,47)); lvl=3; h,r-ind=1,1
  [4,3]((4,8,27),(5,10,34),(3,7,24),(15,32,108)); lvl=2; h,r-ind=1,2
    [3,3]((11,23,78),(5,10,34),(3,7,24)); lvl=3; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((6,13,44),(11,23,78),(3,7,24)); lvl=3; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((4,8,27),(6,13,44),(11,23,78)); lvl=3; h,r-ind=1,1
    [3,3]((4,8,27),(15,32,108),(6,13,44)); lvl=3; h,r-ind=1,1
    [3,3]((4,8,27),(11,23,78),(5,10,34)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(5,10,34),(3,7,24)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((2,3,10),(4,8,27),(7,14,47)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,10),(5,8,27),(4,8,27),(7,13,44)); lvl=2; h,r-ind=1,1
    [3,3]((9,16,54),(7,13,44),(5,8,27)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(9,16,54),(5,8,27)); lvl=3; h,r-ind=1,1
    [3,3]((4,8,27),(9,16,54),(7,13,44)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,10),(4,8,27),(9,16,54)); lvl=3; h,r-ind=1,1
  [3,3]((4,8,27),(5,10,34),(7,13,44)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(5,8,27),(5,10,34),(7,13,44)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,27),(7,13,44),(15,26,88)); lvl=3; h,r-ind=1,1
    [4,3]((5,10,34),(3,5,17),(7,13,44),(15,26,88)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,17),(10,18,61),(15,26,88)); lvl=4; h,r-ind=1,1
      [3,3]((7,13,44),(10,18,61),(15,26,88)); lvl=4; h,r-ind=1,1
      [3,3]((5,10,34),(7,13,44),(10,18,61)); lvl=4; h,r-ind=1,1
      [3,3]((5,10,34),(3,5,17),(10,18,61)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(3,5,17),(5,8,27),(15,26,88)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,17),(8,13,44),(15,26,88)); lvl=4; h,r-ind=1,1
      [3,3]((5,8,27),(8,13,44),(15,26,88)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(3,5,17),(8,13,44)); lvl=4; h,r-ind=1,1
      [3,3]((5,8,27),(1,0,0),(8,13,44)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,10),(5,8,27)); lvl=2; h,r-ind=1,1
[4,3]((3,7,24),(2,5,15),(3,8,24),(5,11,36)); lvl=1; h,r-ind=3,1
  [4,3]((7,16,51),(6,14,45),(2,5,15),(5,12,38)); lvl=2; h,r-ind=1,1
    [3,3]((6,14,45),(14,33,105),(5,12,38)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,22),(2,5,15),(14,33,105),(5,12,38)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,15),(8,19,60),(5,12,38)); lvl=4; h,r-ind=1,1
      [3,3]((14,33,105),(8,19,60),(5,12,38)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,22),(14,33,105),(8,19,60)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,22),(2,5,15),(8,19,60)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,22),(6,14,45),(14,33,105)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,22),(7,16,51),(6,14,45)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,16),(3,8,24),(2,5,15),(5,12,38)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((3,8,24),(4,10,31),(2,5,15)); lvl=3; h,r-ind=1,1
    [3,3]((5,12,38),(4,10,31),(2,5,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,16),(5,12,38),(4,10,31)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,16),(3,8,24),(4,10,31)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,16),(3,7,23),(6,14,45),(5,12,38)); lvl=2; h,r-ind=1,1
    [3,3]((8,19,61),(6,14,45),(3,7,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,16),(8,19,61),(3,7,23)); lvl=3; h,r-ind=1,1
    [3,3]((5,12,38),(8,19,61),(6,14,45)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,16),(5,12,38),(8,19,61)); lvl=3; h,r-ind=1,1
  [3,3]((3,7,24),(2,5,16),(3,7,23)); lvl=2; h,r-ind=1,1
  [5,3]((5,11,36),(4,9,30),(3,7,23),(7,16,51),(6,14,45)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,23),(6,14,45),(13,30,97)); lvl=3; h,r-ind=1,1
    [4,3]((4,9,29),(7,16,51),(6,14,45),(13,30,97)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((7,16,51),(10,23,74),(6,14,45)); lvl=4; h,r-ind=1,1
      [3,3]((13,30,97),(10,23,74),(6,14,45)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,29),(7,16,51),(10,23,74)); lvl=4; h,r-ind=1,1
      [3,3]((13,30,97),(4,9,29),(10,23,74)); lvl=4; h,r-ind=1,1
    [4,3]((4,9,29),(11,25,82),(3,7,23),(13,30,97)); lvl=3; h,r-ind=1,1
      [3,3]((7,16,52),(3,7,23),(11,25,82)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,29),(7,16,52),(11,25,82)); lvl=4; h,r-ind=1,1
      [3,3]((13,30,97),(7,16,52),(3,7,23)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,29),(13,30,97),(7,16,52)); lvl=4; h,r-ind=1,1
    [3,3]((4,9,30),(11,25,82),(3,7,23)); lvl=3; h,r-ind=1,1
    [4,3]((5,11,36),(4,9,29),(4,9,30),(11,25,82)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((8,18,59),(11,25,82),(4,9,29)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,36),(8,18,59),(4,9,29)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,30),(5,11,36),(8,18,59)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,30),(8,18,59),(11,25,82)); lvl=4; h,r-ind=1,1
  [3,3]((3,7,24),(4,9,30),(3,7,23)); lvl=2; h,r-ind=1,1
[4,3]((3,7,24),(12,25,84),(5,11,36),(7,15,49)); lvl=1; h,r-ind=1,1
  [5,3]((7,15,50),(15,32,108),(12,26,87),(12,25,84),(19,40,133)); lvl=2; h,r-ind=1,1
    [3,3]((15,32,107),(12,26,87),(7,15,50)); lvl=3; h,r-ind=1,1
    [4,3]((19,40,133),(10,21,70),(15,32,107),(7,15,50)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((17,36,120),(10,21,70),(15,32,107)); lvl=4; h,r-ind=1,1
      [3,3]((17,36,120),(7,15,50),(15,32,107)); lvl=4; h,r-ind=1,1
      [3,3]((19,40,133),(17,36,120),(7,15,50)); lvl=4; h,r-ind=1,1
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      [3,3]((19,40,133),(17,36,120),(10,21,70)); lvl=4; h,r-ind=1,1
    [4,3]((8,17,57),(27,58,195),(15,32,107),(12,26,87)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((28,60,201),(13,28,94),(12,26,87)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
      [3,3]((15,32,107),(28,60,201),(12,26,87)); lvl=4; h,r-ind=2,2; alert-h-inc; optimized-h
      [3,3]((8,17,57),(15,32,107),(28,60,201)); lvl=4; h,r-ind=1,1
      [3,3]((8,17,57),(28,60,201),(13,28,94)); lvl=4; h,r-ind=1,1
      [3,3]((8,17,57),(27,58,195),(13,28,94)); lvl=4; h,r-ind=1,1
    [4,3]((10,21,70),(21,44,147),(8,17,57),(15,32,107)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((21,44,147),(18,38,127),(8,17,57)); lvl=4; h,r-ind=1,1
      [3,3]((15,32,107),(18,38,127),(8,17,57)); lvl=4; h,r-ind=1,1
      [3,3]((10,21,70),(15,32,107),(18,38,127)); lvl=4; h,r-ind=1,1
      [3,3]((10,21,70),(21,44,147),(18,38,127)); lvl=4; h,r-ind=1,1
    [4,3]((9,19,64),(12,25,84),(21,44,147),(8,17,57)); lvl=3; h,r-ind=1,1
      [3,3]((8,17,57),(11,23,77),(28,59,198)); lvl=4; h,r-ind=1,1
      [4,3]((9,19,64),(12,25,84),(11,23,77),(28,59,198)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((12,25,84),(20,42,141),(11,23,77)); lvl=5; h,r-ind=1,1
        [3,3]((28,59,198),(20,42,141),(11,23,77)); lvl=5; h,r-ind=1,1
        [3,3]((9,19,64),(12,25,84),(20,42,141)); lvl=5; h,r-ind=1,1
        [3,3]((28,59,198),(9,19,64),(20,42,141)); lvl=5; h,r-ind=1,1
      [3,3]((8,17,57),(9,19,64),(28,59,198)); lvl=4; h,r-ind=1,1
      [3,3]((8,17,57),(21,44,147),(11,23,77)); lvl=4; h,r-ind=1,1
    [4,3]((9,19,64),(15,32,108),(8,17,57),(27,58,195)); lvl=3; h,r-ind=1,1
      [3,3]((8,17,57),(27,58,195),(14,30,101)); lvl=4; h,r-ind=1,1
      [3,3]((8,17,57),(31,66,222),(14,30,101)); lvl=4; h,r-ind=1,1
      [4,3]((9,19,64),(15,32,108),(31,66,222),(14,30,101)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((23,49,165),(14,30,101),(15,32,108)); lvl=5; h,r-ind=1,1
        [3,3]((9,19,64),(23,49,165),(15,32,108)); lvl=5; h,r-ind=1,1
        [3,3]((31,66,222),(23,49,165),(14,30,101)); lvl=5; h,r-ind=1,1
        [3,3]((9,19,64),(31,66,222),(23,49,165)); lvl=5; h,r-ind=1,1
      [3,3]((8,17,57),(9,19,64),(31,66,222)); lvl=4; h,r-ind=1,1
  [4,3]((6,13,43),(7,15,50),(7,15,49),(19,40,133)); lvl=2; h,r-ind=1,1
    [3,3]((7,15,50),(9,19,63),(19,40,133)); lvl=3; h,r-ind=1,1
    [4,3]((7,15,50),(28,60,199),(17,36,119),(9,19,63)); lvl=3; h,r-ind=1,1
      [4,3]((9,19,63),(31,66,219),(15,32,106),(17,36,119)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((24,51,169),(31,66,219),(15,32,106)); lvl=5; h,r-ind=1,1
        [3,3]((17,36,119),(24,51,169),(15,32,106)); lvl=5; h,r-ind=1,1
        [3,3]((9,19,63),(17,36,119),(24,51,169)); lvl=5; h,r-ind=1,1
        [3,3]((9,19,63),(24,51,169),(31,66,219)); lvl=5; h,r-ind=1,1
      [3,3]((7,15,50),(9,19,63),(31,66,219)); lvl=4; h,r-ind=1,1
      [3,3]((7,15,50),(31,66,219),(15,32,106)); lvl=4; h,r-ind=1,1
      [3,3]((7,15,50),(15,32,106),(28,60,199)); lvl=4; h,r-ind=1,1
    [3,3]((6,13,43),(7,15,50),(28,60,199)); lvl=3; h,r-ind=1,1
    [4,3]((6,13,43),(7,15,49),(28,60,199),(17,36,119)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((15,32,106),(8,17,56),(17,36,119)); lvl=4; h,r-ind=1,1
      [3,3]((15,32,106),(35,75,248),(8,17,56)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((6,13,43),(7,15,49),(35,75,248),(8,17,56)); lvl=4; h,r-ind=1,3
        [3,3]((14,30,99),(7,15,49),(8,17,56)); lvl=5; h,r-ind=1,1
        [3,3]((35,75,248),(14,30,99),(8,17,56)); lvl=5; h,r-ind=1,1
        [3,3]((6,13,43),(35,75,248),(14,30,99)); lvl=5; h,r-ind=1,1
        [3,3]((6,13,43),(14,30,99),(7,15,49)); lvl=5; h,r-ind=1,1
      [4,3]((6,13,43),(28,60,199),(15,32,106),(35,75,248)); lvl=4; h,r-ind=1,3
        [3,3]((21,45,149),(28,60,199),(15,32,106)); lvl=5; h,r-ind=1,1
        [3,3]((35,75,248),(21,45,149),(15,32,106)); lvl=5; h,r-ind=1,1
        [3,3]((6,13,43),(35,75,248),(21,45,149)); lvl=5; h,r-ind=1,1
        [3,3]((6,13,43),(21,45,149),(28,60,199)); lvl=5; h,r-ind=1,1
  [3,3]((6,13,43),(5,11,36),(7,15,49)); lvl=2; h,r-ind=1,1
  [4,3]((4,9,30),(6,13,43),(11,24,80),(5,11,36)); lvl=2; h,r-ind=1,1
    [3,3]((10,22,73),(11,24,80),(6,13,43)); lvl=3; h,r-ind=1,1
    [3,3]((5,11,36),(10,22,73),(6,13,43)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,30),(5,11,36),(10,22,73)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,30),(10,22,73),(11,24,80)); lvl=3; h,r-ind=1,1
  [3,3]((3,7,24),(15,32,108),(12,26,87)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((6,13,43),(11,24,80),(7,15,50),(12,26,87)); lvl=2; h,r-ind=1,1
    [3,3]((12,26,87),(11,24,80),(18,39,130)); lvl=3; h,r-ind=1,1
    [3,3]((6,13,43),(11,24,80),(18,39,130)); lvl=3; h,r-ind=1,1
    [3,3]((7,15,50),(6,13,43),(18,39,130)); lvl=3; h,r-ind=1,1
    [3,3]((7,15,50),(12,26,87),(18,39,130)); lvl=3; h,r-ind=1,1
  [4,3]((4,9,30),(3,7,24),(11,24,80),(12,26,87)); lvl=2; h,r-ind=1,1
    [4,3]((11,24,80),(20,44,147),(12,26,87),(5,11,37)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((20,44,147),(16,35,117),(5,11,37)); lvl=4; h,r-ind=1,1
      [3,3]((12,26,87),(16,35,117),(5,11,37)); lvl=4; h,r-ind=1,1
      [3,3]((11,24,80),(20,44,147),(16,35,117)); lvl=4; h,r-ind=1,1
      [3,3]((12,26,87),(11,24,80),(16,35,117)); lvl=4; h,r-ind=1,1
    [3,3]((4,9,30),(20,44,147),(5,11,37)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,30),(3,7,24),(5,11,37)); lvl=3; h,r-ind=1,1
    [3,3]((4,9,30),(11,24,80),(20,44,147)); lvl=3; h,r-ind=1,1
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24.35 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,8,24)); lvl=0; h,r-ind=24,24
  [5,3]((1,3,8),(2,5,14),(1,3,6),(3,8,16),(2,5,11)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,17),(3,8,16),(2,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((4,10,25),(3,8,19),(3,8,17),(2,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,12),(3,8,19),(3,8,18)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,11),(2,5,12),(3,8,17),(3,8,18)); lvl=3; h,r-ind=1,1
        [3,3]((5,13,29),(3,8,18),(3,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(5,13,29),(3,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,12),(5,13,29),(3,8,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(2,5,12),(5,13,29)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,25),(2,5,12),(3,8,19)); lvl=3; h,r-ind=1,1
    [5,3]((1,3,8),(1,3,7),(2,5,14),(4,10,25),(3,8,19)); lvl=2; h,r-ind=1,1
      [4,3]((2,5,13),(4,10,25),(3,8,19),(6,16,39)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,10,25),(5,13,32),(3,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((6,16,39),(5,13,32),(3,8,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,13),(6,16,39),(5,13,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,13),(4,10,25),(5,13,32)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(3,8,19),(6,16,39)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,7),(2,5,13),(4,11,28),(6,16,39)); lvl=3; h,r-ind=1,1
        [3,3]((3,8,20),(4,11,28),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((6,16,39),(3,8,20),(2,5,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(3,8,20),(4,11,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(6,16,39),(3,8,20)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,8),(4,11,28)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,8),(2,5,13),(4,11,28),(2,5,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,13),(4,11,28),(3,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,8),(4,11,28),(3,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,14),(1,3,8),(3,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,14),(2,5,13),(3,8,21)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,6),(3,8,17),(3,8,16)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,7),(3,8,19),(1,3,6),(3,8,17)); lvl=2; h,r-ind=1,1
      [4,3]((1,3,6),(5,14,31),(3,8,17),(3,8,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,17),(4,11,24),(3,8,18)); lvl=4; h,r-ind=1,1
        [3,3]((5,14,31),(4,11,24),(3,8,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(5,14,31),(4,11,24)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(3,8,17),(4,11,24)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,7),(5,14,31),(3,8,19),(3,8,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,11,25),(3,8,19),(3,8,18)); lvl=4; h,r-ind=1,1
        [3,3]((5,14,31),(4,11,25),(3,8,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(5,14,31),(4,11,25)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,7),(4,11,25),(3,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,7),(1,3,6),(5,14,31)); lvl=3; h,r-ind=1,1
  [5,3]((1,0,0),(2,3,9),(3,8,12),(3,8,16),(2,5,11)); lvl=1; h,r-ind=4,1
    [3,3]((3,8,16),(2,5,10),(2,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,5),(3,7,14),(2,5,10),(2,5,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,15),(3,7,14),(2,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,11),(3,7,15),(2,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(2,5,11),(3,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(3,7,15),(3,7,14)); lvl=3; h,r-ind=1,1
    [5,3]((2,3,6),(6,14,25),(4,9,16),(1,2,5),(3,7,14)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,4),(6,14,25),(3,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,14),(3,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,2,5),(3,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(1,2,4),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(4,9,16),(6,14,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,6,11),(4,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(1,2,4),(3,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(1,1,3),(1,2,5)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((1,1,3),(2,3,9),(1,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,6),(1,1,3)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((1,2,3),(1,0,0),(2,3,6)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
    [4,3]((3,8,16),(2,5,10),(3,8,14),(2,5,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,9),(2,5,10),(7,18,34)); lvl=3; h,r-ind=1,1
      [4,3]((3,8,16),(3,8,15),(2,5,10),(7,18,34)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,15),(5,13,25),(7,18,34)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,10),(5,13,25),(7,18,34)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,16),(2,5,10),(5,13,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,16),(3,8,15),(5,13,25)); lvl=4; h,r-ind=1,1
      [4,3]((3,8,14),(3,8,15),(2,5,9),(7,18,34)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,15),(7,18,34),(5,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(7,18,34),(5,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,14),(3,8,15),(5,13,24)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,9),(3,8,14),(5,13,24)); lvl=4; h,r-ind=1,1
    [4,3]((6,14,25),(3,7,14),(2,5,10),(2,5,9)); lvl=2; h,r-ind=1,1
      [4,3]((3,7,14),(3,7,13),(2,5,10),(7,17,32)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,12,23),(7,17,32),(3,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,14),(5,12,23),(3,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,23),(2,5,10),(7,17,32)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((3,7,14),(5,12,23),(2,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,9),(2,5,10),(7,17,32)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(3,7,13),(7,17,32)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(6,14,25),(3,7,13)); lvl=3; h,r-ind=1,1
  [3,3]((6,14,25),(4,9,16),(3,7,12)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(2,3,6),(4,9,16),(3,7,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,7),(4,9,16),(3,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(2,3,6),(3,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,4,7),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,12),(2,4,7),(4,9,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,7,12),(2,4,7)); lvl=3; h,r-ind=1,1
  [5,3]((6,14,25),(3,7,12),(3,8,12),(3,8,14),(2,5,9)); lvl=2; h,r-ind=1,1
    [4,3]((5,12,21),(4,10,17),(3,7,12),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((7,17,29),(2,5,8),(4,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,21),(7,17,29),(4,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,12),(7,17,29),(2,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,21),(3,7,12),(7,17,29)); lvl=4; h,r-ind=1,1
    [5,3]((3,8,13),(4,10,17),(7,18,31),(13,33,57),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((11,28,48),(13,33,57),(4,10,17)); lvl=4; h,r-ind=1,1
      [4,3]((9,23,39),(11,28,48),(15,38,64),(4,10,17)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,10,17),(11,28,48),(13,33,56)); lvl=5; h,r-ind=1,1
        [3,3]((9,23,39),(11,28,48),(13,33,56)); lvl=5; h,r-ind=1,1
        [3,3]((15,38,64),(4,10,17),(13,33,56)); lvl=5; h,r-ind=1,1
        [3,3]((9,23,39),(15,38,64),(13,33,56)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,8),(15,38,64),(4,10,17)); lvl=4; h,r-ind=1,1
      [5,3]((3,8,13),(5,13,22),(9,23,39),(2,5,8),(15,38,64)); lvl=4; h,r-ind=1,1
        [3,3]((9,23,39),(15,38,64),(11,28,47)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,8),(15,38,64),(11,28,47)); lvl=5; h,r-ind=1,1
        [3,3]((18,46,77),(2,5,8),(11,28,47)); lvl=5; h,r-ind=1,1
        [3,3]((18,46,77),(7,18,30),(2,5,8)); lvl=5; h,r-ind=1,1
        [3,3]((3,8,13),(7,18,30),(2,5,8)); lvl=5; h,r-ind=1,1
        [4,3]((18,46,77),(16,41,69),(9,23,39),(11,28,47)); lvl=5; h,r-ind=1,1
          [3,3]((16,41,69),(9,23,39),(27,69,116)); lvl=6; h,r-ind=1,1
          [3,3]((11,28,47),(9,23,39),(27,69,116)); lvl=6; h,r-ind=1,1
          [3,3]((18,46,77),(11,28,47),(27,69,116)); lvl=6; h,r-ind=1,1
          [3,3]((18,46,77),(16,41,69),(27,69,116)); lvl=6; h,r-ind=1,1
        [4,3]((5,13,22),(18,46,77),(7,18,30),(16,41,69)); lvl=5; h,r-ind=1,1
          [3,3]((7,18,30),(18,46,77),(23,59,99)); lvl=6; h,r-ind=1,1
          [3,3]((16,41,69),(18,46,77),(23,59,99)); lvl=6; h,r-ind=1,1
          [3,3]((5,13,22),(7,18,30),(23,59,99)); lvl=6; h,r-ind=1,1
          [3,3]((16,41,69),(5,13,22),(23,59,99)); lvl=6; h,r-ind=1,1
        [3,3]((3,8,13),(5,13,22),(7,18,30)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,22),(16,41,69),(9,23,39)); lvl=5; h,r-ind=1,1
      [3,3]((11,28,48),(7,18,31),(13,33,57)); lvl=4; h,r-ind=1,1
      [4,3]((5,13,22),(9,23,39),(11,28,48),(7,18,31)); lvl=4; h,r-ind=1,1
        [3,3]((9,23,39),(11,28,48),(16,41,70)); lvl=5; h,r-ind=1,1
        [3,3]((7,18,31),(11,28,48),(16,41,70)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,22),(9,23,39),(16,41,70)); lvl=5; h,r-ind=1,1
        [3,3]((7,18,31),(5,13,22),(16,41,70)); lvl=5; h,r-ind=1,1
    [3,3]((3,8,12),(3,8,13),(2,5,8)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,9),(3,8,14),(7,18,31),(13,33,57)); lvl=3; h,r-ind=1,1
      [3,3]((9,23,40),(3,8,14),(7,18,31)); lvl=4; h,r-ind=1,1
      [3,3]((13,33,57),(9,23,40),(7,18,31)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,9),(13,33,57),(9,23,40)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,9),(9,23,40),(3,8,14)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,13),(3,8,14),(7,18,31)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((5,12,21),(2,5,9),(4,10,17),(13,33,57)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((2,5,9),(13,33,57),(6,15,26)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,17),(13,33,57),(6,15,26)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,21),(2,5,9),(6,15,26)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,17),(5,12,21),(6,15,26)); lvl=4; h,r-ind=1,1
    [3,3]((6,14,25),(5,12,21),(2,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((6,14,25),(5,12,21),(3,7,12)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,3),(3,7,12),(3,8,12)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
[4,3]((2,5,14),(3,7,21),(2,3,9),(2,5,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,6),(1,2,5),(2,3,9)); lvl=2; h,r-ind=1,1
  [3,3]((4,9,24),(1,2,6),(1,2,5)); lvl=2; h,r-ind=1,1
  [5,3]((2,5,11),(4,10,25),(6,14,37),(4,9,24),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,18),(4,10,25),(2,5,12),(5,12,31)); lvl=3; h,r-ind=1,1
      [3,3]((7,17,43),(4,10,25),(2,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,18),(7,17,43),(2,5,12)); lvl=4; h,r-ind=1,1
      [3,3]((5,12,31),(7,17,43),(4,10,25)); lvl=4; h,r-ind=1,1
      [3,3]((3,7,18),(5,12,31),(7,17,43)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,18),(6,14,37),(5,12,31)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,18),(6,14,37),(4,9,24)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(3,7,18),(4,9,24)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,18),(6,14,35),(2,5,12)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,11),(1,2,5),(6,14,35),(2,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(3,7,17),(6,14,35)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,12),(3,7,17),(6,14,35)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((2,5,11),(2,5,12),(3,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,11),(1,2,5),(3,7,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(3,7,18),(6,14,35)); lvl=3; h,r-ind=1,1
    [4,3]((3,7,19),(6,14,37),(4,9,24),(1,2,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,24),(6,14,37),(7,16,43)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,19),(6,14,37),(7,16,43)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(3,7,19),(7,16,43)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,6),(4,9,24),(7,16,43)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,14),(3,7,19),(3,7,21),(1,2,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,7,20),(1,2,6),(3,7,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,14),(3,7,20),(3,7,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,21),(3,7,20),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,14),(3,7,21),(3,7,20)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,14),(4,10,25),(3,7,19),(6,14,37)); lvl=2; h,r-ind=1,1
      [4,3]((8,19,50),(13,31,82),(6,14,37),(3,7,19)); lvl=3; h,r-ind=1,1
        [3,3]((11,26,69),(3,7,19),(6,14,37)); lvl=4; h,r-ind=1,1
        [3,3]((8,19,50),(11,26,69),(6,14,37)); lvl=4; h,r-ind=1,1
        [3,3]((8,19,50),(13,31,82),(11,26,69)); lvl=4; h,r-ind=1,1
        [3,3]((13,31,82),(11,26,69),(3,7,19)); lvl=4; h,r-ind=1,1
      [4,3]((2,5,14),(2,5,13),(13,31,82),(3,7,19)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,5,13),(5,12,32),(13,31,82)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,19),(5,12,32),(13,31,82)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,14),(3,7,19),(5,12,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,14),(2,5,13),(5,12,32)); lvl=4; h,r-ind=1,1
      [3,3]((8,19,50),(5,12,31),(6,14,37)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,13),(8,19,50),(13,31,82),(5,12,31)); lvl=3; h,r-ind=1,1
        [3,3]((13,31,82),(10,24,63),(8,19,50)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,31),(10,24,63),(8,19,50)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,13),(5,12,31),(10,24,63)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,13),(13,31,82),(10,24,63)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,13),(5,12,31),(4,10,25)); lvl=3; h,r-ind=1,1
  [4,3]((3,8,24),(1,3,8),(2,5,14),(3,7,21)); lvl=1; h,r-ind=1,1
    [3,3]((5,13,37),(2,5,14),(1,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,15),(5,13,37),(1,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,24),(2,5,15),(1,3,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,15),(5,13,37),(3,7,21),(2,5,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,13,37),(4,10,29),(2,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,21),(4,10,29),(2,5,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,15),(3,7,21),(4,10,29)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,15),(5,13,37),(4,10,29)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,8),(1,3,6)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(3,8,12),(1,3,6),(3,8,16)); lvl=1; h,r-ind=2,2
    [3,3]((1,3,5),(3,8,16),(3,8,14)); lvl=2; h,r-ind=2,2; optimized-h
    [4,3]((3,8,12),(1,3,4),(1,3,5),(3,8,14)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(5,14,22),(1,3,5)); lvl=3; h,r-ind=1,1
      [4,3]((3,8,13),(3,8,14),(5,14,22),(1,3,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,5),(3,8,14),(4,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,13),(3,8,14),(4,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((5,14,22),(1,3,5),(4,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,13),(5,14,22),(4,11,18)); lvl=4; h,r-ind=1,1
      [4,3]((3,8,12),(3,8,13),(1,3,4),(5,14,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,11,17),(5,14,22),(3,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,12),(4,11,17),(3,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,12),(4,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(4,11,17),(5,14,22)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,4),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(1,3,5),(3,8,16)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,6),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(3,8,12)); lvl=1; h,r-ind=12,12; optimized-h
```

24.36 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,10,24)); lvl=0; h,r-ind=24,96
  [4,3]((1,2,4),(2,4,9),(2,5,10),(1,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,7),(2,5,11),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,11),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,10),(2,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,10),(1,3,7),(2,5,11)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,5),(2,5,10),(1,3,7)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(1,3,5),(3,11,24),(1,3,7)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,6),(2,7,13),(2,7,14),(1,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,13),(2,7,14),(3,10,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,7),(2,7,14),(3,10,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(1,3,7),(3,10,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,7,13),(3,10,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,8),(2,7,14),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,8),(3,11,24),(1,3,7)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((0,1,0),(1,3,5),(1,3,6),(2,7,13)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,6),(1,3,5),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,13),(1,4,6),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,7,13),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,6),(1,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,4,8),(2,7,13),(2,7,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,4,7),(2,7,13),(2,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(1,4,7),(2,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,7),(2,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,8),(0,1,0),(1,4,7)); lvl=3; h,r-ind=1,1
  [3,3]((3,10,24),(3,11,24),(1,3,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,3,5),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,9),(1,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,5,12),(1,3,7)); lvl=1; h,r-ind=1,1
  [3,3]((3,10,24),(2,5,12),(1,3,7)); lvl=1; h,r-ind=1,1
  [5,3]((1,3,5),(1,3,4),(1,2,3),(1,2,4),(2,5,10)); lvl=1; h,r-ind=1,1
    [5,3]((4,10,17),(3,7,12),(1,2,3),(1,3,4),(3,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,8),(1,2,3),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,17),(2,5,8),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,17),(2,5,8),(3,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(1,2,3),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(3,8,13),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,4),(3,8,13)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(2,5,9),(4,10,17),(3,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,9),(4,10,17),(5,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,13),(4,10,17),(5,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(2,5,9),(5,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,13),(1,3,5),(5,13,22)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,5,9),(2,5,10)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,9),(4,10,17),(3,7,12),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,12),(4,10,17),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(4,10,17),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(5,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,7,12),(5,12,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(2,5,10),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,12),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,2,4)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(1,3,4),(1,0,0),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(3,7,9),(1,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(1,2,2),(3,7,9),(1,2,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,2),(3,7,9),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,9),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,2),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(1,1,1),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,2),(1,3,4),(3,7,9)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((1,2,2),(3,8,9),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,9),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,7,9),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,7,9),(2,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,4),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,4),(2,4,9)); lvl=1; h,r-ind=2,2; optimized-h
```

24.37 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,11,24)); lvl=0; h,r-ind=24,192
  [6,3]((1,1,2),(2,5,10),(2,2,3),(2,7,9),(2,7,8),(1,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,8),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,5),(1,3,4),(2,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((3,8,12),(3,8,13),(1,3,5),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,13),(1,3,5),(4,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,5),(4,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,12),(1,3,4),(4,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,12),(3,8,13),(4,11,17)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,7),(4,10,15),(3,8,12),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((5,13,19),(3,8,12),(4,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(5,13,19),(4,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(5,13,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,13,19),(3,8,12)); lvl=3; h,r-ind=1,1
    [6,3]((1,2,4),(2,5,9),(3,7,11),(4,10,15),(3,8,12),(3,8,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,8),(3,8,12),(4,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(3,7,11),(4,10,15)); lvl=3; h,r-ind=1,1
```

```
  [3,3]((1,2,4),(2,5,8),(3,7,11)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,8),(3,8,13),(3,8,12)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,9),(2,5,8),(3,8,13)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,4),(2,5,9),(2,5,8)); lvl=3; h,r-ind=1,1
[4,3]((2,5,10),(2,5,9),(3,8,13),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,9),(3,8,13),(3,8,14)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,5),(3,8,13),(3,8,14)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,10),(2,5,9),(3,8,14)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,5),(2,5,10),(3,8,14)); lvl=3; h,r-ind=1,1
[3,3]((1,2,4),(2,5,10),(2,5,9)); lvl=2; h,r-ind=1,1
[4,3]((4,9,11),(2,5,7),(1,3,4),(2,7,8)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,7),(5,13,17),(9,24,31),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((6,16,21),(5,13,17),(9,24,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(6,16,21),(9,24,31)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,7),(6,16,21),(5,13,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,7),(6,16,21)); lvl=4; h,r-ind=1,1
  [5,3]((2,7,8),(4,11,13),(3,8,10),(9,24,31),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,7),(4,11,13),(5,14,17)); lvl=4; h,r-ind=1,1
    [4,3]((9,25,31),(3,8,10),(4,11,13),(5,14,17)); lvl=4; h,r-ind=1,1
      [3,3]((8,22,27),(4,11,13),(3,8,10)); lvl=5; h,r-ind=1,1
      [3,3]((9,25,31),(8,22,27),(3,8,10)); lvl=5; h,r-ind=1,1
      [3,3]((8,22,27),(5,14,17),(4,11,13)); lvl=5; h,r-ind=1,1
      [3,3]((9,25,31),(8,22,27),(5,14,17)); lvl=5; h,r-ind=1,1
    [4,3]((4,11,14),(10,28,35),(9,25,31),(3,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((13,36,45),(9,25,31),(10,28,35)); lvl=5; h,r-ind=1,1
      [3,3]((4,11,14),(13,36,45),(10,28,35)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,10),(4,11,14),(13,36,45)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,10),(13,36,45),(9,25,31)); lvl=5; h,r-ind=1,1
    [3,3]((4,11,14),(3,8,10),(9,24,31)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,4),(4,11,14),(9,24,31)); lvl=4; h,r-ind=1,1
    [5,3]((10,28,35),(7,20,25),(9,25,31),(2,6,7),(5,14,17)); lvl=4; h,r-ind=1,1
      [3,3]((6,17,21),(9,25,31),(5,14,17)); lvl=5; h,r-ind=1,1
      [3,3]((6,17,21),(2,6,7),(5,14,17)); lvl=5; h,r-ind=1,1
      [3,3]((7,20,25),(6,17,21),(2,6,7)); lvl=5; h,r-ind=1,1
      [3,3]((10,28,35),(6,17,21),(9,25,31)); lvl=5; h,r-ind=1,1
      [3,3]((10,28,35),(7,20,25),(6,17,21)); lvl=5; h,r-ind=1,1
    [4,3]((2,7,8),(1,3,4),(7,20,25),(2,6,7)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((1,3,4),(7,20,25),(3,9,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,7),(7,20,25),(3,9,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,7,8),(1,3,4),(3,9,11)); lvl=5; h,r-ind=1,1
      [3,3]((2,6,7),(2,7,8),(3,9,11)); lvl=5; h,r-ind=1,1
    [4,3]((1,3,4),(4,11,14),(10,28,35),(7,20,25)); lvl=4; h,r-ind=1,1
      [3,3]((4,11,14),(10,28,35),(11,31,39)); lvl=5; h,r-ind=1,1
      [3,3]((7,20,25),(10,28,35),(11,31,39)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,4),(4,11,14),(11,31,39)); lvl=5; h,r-ind=1,1
      [3,3]((7,20,25),(1,3,4),(11,31,39)); lvl=5; h,r-ind=1,1
  [3,3]((2,5,6),(4,11,13),(3,8,10)); lvl=3; h,r-ind=1,1
  [3,3]((3,7,9),(2,5,7),(5,13,17)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((2,5,6),(3,8,10),(3,7,9),(5,13,17),(9,24,31)); lvl=3; h,r-ind=1,1
    [3,3]((8,21,27),(5,13,17),(9,24,31)); lvl=4; h,r-ind=1,1
    [3,3]((3,8,10),(8,21,27),(9,24,31)); lvl=4; h,r-ind=1,1
    [3,3]((2,5,6),(3,8,10),(12,31,39)); lvl=4; h,r-ind=1,1
    [4,3]((8,21,27),(7,18,23),(4,10,13),(5,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((12,31,40),(4,10,13),(7,18,23)); lvl=5; h,r-ind=1,1
      [3,3]((8,21,27),(12,31,40),(7,18,23)); lvl=5; h,r-ind=1,1
      [3,3]((5,13,17),(12,31,40),(4,10,13)); lvl=5; h,r-ind=1,1
      [3,3]((8,21,27),(5,13,17),(12,31,40)); lvl=5; h,r-ind=1,1
    [4,3]((3,8,10),(8,21,27),(7,18,23),(12,31,39)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((8,21,27),(10,26,33),(7,18,23)); lvl=5; h,r-ind=1,1
      [3,3]((12,31,39),(10,26,33),(7,18,23)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,10),(12,31,39),(10,26,33)); lvl=5; h,r-ind=1,1
      [3,3]((3,8,10),(8,21,27),(10,26,33)); lvl=5; h,r-ind=1,1
    [5,3]((2,5,6),(7,18,23),(12,31,39),(3,7,9),(4,10,13)); lvl=4; h,r-ind=1,1
      [4,3]((9,23,29),(15,38,48),(13,33,42),(7,18,23)); lvl=5; h,r-ind=1,1
        [3,3]((15,38,48),(13,33,42),(22,56,71)); lvl=6; h,r-ind=1,1
        [3,3]((7,18,23),(13,33,42),(22,56,71)); lvl=6; h,r-ind=1,1
        [3,3]((9,23,29),(15,38,48),(22,56,71)); lvl=6; h,r-ind=1,1
        [3,3]((7,18,23),(9,23,29),(22,56,71)); lvl=6; h,r-ind=1,1
      [3,3]((4,10,13),(13,33,42),(7,18,23)); lvl=5; h,r-ind=1,1
      [3,3]((12,31,39),(9,23,29),(7,18,23)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,6),(12,31,39),(9,23,29)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,6),(9,23,29),(15,38,48)); lvl=5; h,r-ind=1,1
      [4,3]((4,10,13),(6,15,19),(15,38,48),(13,33,42)); lvl=5; h,r-ind=1,1
        [3,3]((19,48,61),(15,38,48),(6,15,19)); lvl=6; h,r-ind=1,1
        [3,3]((4,10,13),(19,48,61),(6,15,19)); lvl=6; h,r-ind=1,1
        [3,3]((13,33,42),(4,10,13),(19,48,61)); lvl=6; h,r-ind=1,1
        [3,3]((13,33,42),(19,48,61),(15,38,48)); lvl=6; h,r-ind=1,1
      [3,3]((3,7,9),(4,10,13),(6,15,19)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,6),(3,7,9),(6,15,19)); lvl=5; h,r-ind=1,1
      [3,3]((2,5,6),(6,15,19),(15,38,48)); lvl=5; h,r-ind=1,1
```

```
    [3,3]((4,9,11),(2,5,6),(3,7,9)); lvl=3; h,r-ind=1,1
  [4,3]((2,2,3),(1,2,3),(4,9,11),(2,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,7),(5,11,15),(9,19,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(6,13,18),(5,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((9,19,26),(6,13,18),(5,11,15)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(6,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((9,19,26),(1,2,3),(6,13,18)); lvl=4; h,r-ind=1,1
    [5,3]((2,4,5),(3,6,8),(3,7,9),(5,11,15),(9,19,26)); lvl=3; h,r-ind=1,1
      [3,3]((8,17,23),(5,11,15),(9,19,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,8),(8,17,23),(9,19,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(3,6,8),(12,25,33)); lvl=4; h,r-ind=1,1
      [4,3]((7,15,20),(8,17,23),(4,9,12),(5,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((12,26,35),(5,11,15),(8,17,23)); lvl=5; h,r-ind=1,1
        [3,3]((7,15,20),(12,26,35),(8,17,23)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,12),(12,26,35),(5,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((7,15,20),(4,9,12),(12,26,35)); lvl=5; h,r-ind=1,1
      [4,3]((3,6,8),(12,25,33),(7,15,20),(8,17,23)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((10,21,28),(7,15,20),(12,25,33)); lvl=5; h,r-ind=1,1
        [3,3]((3,6,8),(10,21,28),(12,25,33)); lvl=5; h,r-ind=1,1
        [3,3]((8,17,23),(10,21,28),(7,15,20)); lvl=5; h,r-ind=1,1
        [3,3]((3,6,8),(8,17,23),(10,21,28)); lvl=5; h,r-ind=1,1
      [5,3]((2,4,5),(12,25,33),(7,15,20),(3,7,9),(4,9,12)); lvl=4; h,r-ind=1,1
        [4,3]((7,15,20),(15,32,42),(13,28,37),(9,19,25)); lvl=5; h,r-ind=1,1
          [3,3]((22,47,62),(15,32,42),(13,28,37)); lvl=6; h,r-ind=1,1
          [3,3]((7,15,20),(22,47,62),(13,28,37)); lvl=6; h,r-ind=1,1
          [3,3]((9,19,25),(7,15,20),(22,47,62)); lvl=6; h,r-ind=1,1
          [3,3]((9,19,25),(22,47,62),(15,32,42)); lvl=6; h,r-ind=1,1
        [3,3]((12,25,33),(7,15,20),(9,19,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(12,25,33),(9,19,25)); lvl=5; h,r-ind=1,1
        [3,3]((4,9,12),(7,15,20),(13,28,37)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(15,32,42),(9,19,25)); lvl=5; h,r-ind=1,1
        [4,3]((4,9,12),(6,13,17),(15,32,42),(13,28,37)); lvl=5; h,r-ind=1,1
          [3,3]((15,32,42),(6,13,17),(19,41,54)); lvl=6; h,r-ind=1,1
          [3,3]((4,9,12),(6,13,17),(19,41,54)); lvl=6; h,r-ind=1,1
          [3,3]((13,28,37),(4,9,12),(19,41,54)); lvl=6; h,r-ind=1,1
          [3,3]((13,28,37),(15,32,42),(19,41,54)); lvl=6; h,r-ind=1,1
        [3,3]((3,7,9),(4,9,12),(6,13,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,9),(6,13,17)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(6,13,17),(15,32,42)); lvl=5; h,r-ind=1,1
    [3,3]((4,9,11),(2,4,5),(3,7,9)); lvl=3; h,r-ind=1,1
    [5,3]((2,2,3),(4,7,9),(3,6,8),(1,2,3),(9,19,26)); lvl=3; h,r-ind=1,1
      [3,3]((4,8,11),(3,6,8),(9,19,26)); lvl=4; h,r-ind=1,1
      [3,3]((4,8,11),(1,2,3),(9,19,26)); lvl=4; h,r-ind=1,1
      [4,3]((7,13,18),(4,8,11),(10,19,26),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((10,19,26),(4,8,11),(11,21,29)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(4,8,11),(11,21,29)); lvl=5; h,r-ind=1,1
        [3,3]((7,13,18),(1,2,3),(11,21,29)); lvl=5; h,r-ind=1,1
        [3,3]((7,13,18),(10,19,26),(11,21,29)); lvl=5; h,r-ind=1,1
      [4,3]((2,2,3),(2,3,4),(7,13,18),(1,2,3)); lvl=4; h,r-ind=1,3; alert-r-inc
        [3,3]((2,3,4),(7,13,18),(3,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((1,2,3),(7,13,18),(3,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,3),(1,2,3),(3,5,7)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,3),(2,3,4),(3,5,7)); lvl=5; h,r-ind=1,1
      [4,3]((4,8,11),(10,19,26),(9,17,23),(3,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((10,19,26),(9,17,23),(13,25,34)); lvl=5; h,r-ind=1,1
        [3,3]((3,6,8),(9,17,23),(13,25,34)); lvl=5; h,r-ind=1,1
        [3,3]((4,8,11),(3,6,8),(13,25,34)); lvl=5; h,r-ind=1,1
        [3,3]((4,8,11),(10,19,26),(13,25,34)); lvl=5; h,r-ind=1,1
      [4,3]((5,9,12),(4,7,9),(9,17,23),(3,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,8),(4,7,9),(8,15,20)); lvl=5; h,r-ind=1,1
        [3,3]((5,9,12),(4,7,9),(8,15,20)); lvl=5; h,r-ind=1,1
        [3,3]((9,17,23),(5,9,12),(8,15,20)); lvl=5; h,r-ind=1,1
        [3,3]((9,17,23),(3,6,8),(8,15,20)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,4),(5,9,12),(4,7,9)); lvl=4; h,r-ind=1,1
      [5,3]((2,3,4),(5,9,12),(7,13,18),(10,19,26),(9,17,23)); lvl=4; h,r-ind=1,1
        [3,3]((6,11,15),(10,19,26),(9,17,23)); lvl=5; h,r-ind=1,1
        [3,3]((5,9,12),(6,11,15),(9,17,23)); lvl=5; h,r-ind=1,1
        [3,3]((5,9,12),(2,3,4),(6,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((7,13,18),(6,11,15),(10,19,26)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,4),(7,13,18),(6,11,15)); lvl=5; h,r-ind=1,1
    [3,3]((2,4,5),(4,7,9),(3,6,8)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,9),(2,5,7),(5,11,15)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,1,2),(2,2,3),(1,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(2,5,7),(3,7,11),(4,10,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(4,10,15),(5,12,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,11),(4,10,15),(5,12,18)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(5,12,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,11),(1,2,3),(5,12,18)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,4),(1,1,2),(1,2,3),(3,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,4,7),(1,2,3)); lvl=3; h,r-ind=1,1
```

```
    [3,3]((3,7,11),(2,4,7),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,7,11),(2,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,1,2),(2,4,7)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
[4,3]((3,9,19),(3,7,15),(1,1,2),(2,5,10)); lvl=1; h,r-ind=1,1
  [4,3]((3,8,17),(3,7,15),(1,2,4),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,15),(1,1,2),(4,9,19)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(1,1,2),(4,9,19)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,17),(1,2,4),(4,9,19)); lvl=3; h,r-ind=1,1
    [3,3]((3,8,17),(3,7,15),(4,9,19)); lvl=3; h,r-ind=1,1
  [3,3]((3,9,19),(3,8,17),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,5,10),(3,9,19),(1,2,4)); lvl=2; h,r-ind=1,1
[4,3]((2,6,13),(4,13,28),(3,9,19),(3,7,15)); lvl=1; h,r-ind=1,1
  [3,3]((7,21,45),(4,13,28),(3,9,19)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((7,21,45),(3,8,17),(3,9,19)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,6,13),(3,7,15),(7,21,45),(3,8,17)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((5,14,30),(3,8,17),(3,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,13),(5,14,30),(3,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((7,21,45),(5,14,30),(3,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,13),(7,21,45),(5,14,30)); lvl=3; h,r-ind=1,1
  [3,3]((2,6,13),(7,21,45),(4,13,28)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(2,6,13),(3,7,15)); lvl=1; h,r-ind=1,1
[3,3]((3,11,24),(2,6,13),(4,13,28)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(3,11,24),(2,6,13)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(3,7,15),(1,1,2)); lvl=1; h,r-ind=1,1
[4,3]((1,0,0),(0,1,0),(2,2,3),(2,7,8)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,4),(1,2,2),(0,1,0)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,1,1),(1,2,2),(0,1,0)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
  [4,3]((4,9,11),(2,7,8),(1,4,4),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((4,11,13),(2,7,8),(1,3,3),(1,4,4)); lvl=3; h,r-ind=1,1
      [4,3]((2,6,7),(2,7,8),(1,4,4),(4,13,14)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((2,7,8),(3,10,11),(1,4,4)); lvl=5; h,r-ind=1,1
        [3,3]((4,13,14),(3,10,11),(1,4,4)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,7),(4,13,14),(3,10,11)); lvl=5; h,r-ind=1,1
        [3,3]((2,6,7),(2,7,8),(3,10,11)); lvl=5; h,r-ind=1,1
      [3,3]((1,3,3),(1,4,4),(4,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(2,6,7),(4,13,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(4,11,13),(2,6,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,2),(2,5,6),(4,11,13),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(4,11,13),(3,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(4,11,13),(3,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(3,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(3,8,9)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(4,9,11),(2,5,6)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,1),(2,2,3),(4,9,11),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(4,7,9),(2,4,5),(5,8,9)); lvl=3; h,r-ind=1,1
      [4,3]((6,11,13),(3,5,6),(2,4,5),(4,7,9)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,9,11),(4,7,9),(3,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((6,11,13),(5,9,11),(3,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((5,9,11),(2,4,5),(4,7,9)); lvl=5; h,r-ind=1,1
        [3,3]((6,11,13),(5,9,11),(2,4,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,2,2),(6,11,13),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(3,5,6),(5,8,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(6,11,13),(2,4,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(4,9,11),(2,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(2,2,3),(4,7,9),(5,8,9)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((2,3,4),(4,7,9),(3,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(7,10,12),(3,5,6)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((5,8,9),(1,1,1),(7,10,12),(3,5,6)); lvl=4; h,r-ind=1,3
        [3,3]((1,1,1),(4,6,7),(7,10,12)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,6),(4,6,7),(7,10,12)); lvl=5; h,r-ind=1,1
        [3,3]((5,8,9),(3,5,6),(4,6,7)); lvl=5; h,r-ind=1,1
        [3,3]((5,8,9),(1,1,1),(4,6,7)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,1),(2,2,3),(2,3,4),(7,10,12)); lvl=4; h,r-ind=1,3
        [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(2,2,3),(3,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((7,10,12),(2,3,4),(3,4,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,1),(7,10,12),(3,4,5)); lvl=5; h,r-ind=1,1
    [3,3]((1,2,2),(1,1,1),(5,8,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
[6,3]((3,10,21),(1,3,6),(1,4,8),(1,4,5),(2,7,9),(1,3,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,5),(6,19,34),(1,3,6)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,14),(6,19,34),(2,7,12),(1,3,6)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
    [4,3]((1,3,6),(4,13,24),(6,19,34),(4,13,23)); lvl=3; h,r-ind=1,2
      [3,3]((4,13,23),(4,13,24),(5,16,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(4,13,24),(5,16,29)); lvl=4; h,r-ind=1,1
      [3,3]((6,19,34),(4,13,23),(5,16,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,6),(6,19,34),(5,16,29)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,12),(4,13,24),(4,13,23)); lvl=3; h,r-ind=2,2; optimized-h
```

```
      [3,3]((2,7,12),(2,7,13),(4,13,24)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((1,3,6),(2,7,14),(2,7,13),(4,13,24)); lvl=3; h,r-ind=1,2
        [3,3]((2,7,14),(3,10,19),(2,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,24),(3,10,19),(2,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(4,13,24),(3,10,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,6),(2,7,14),(3,10,19)); lvl=4; h,r-ind=1,1
    [3,3]((3,10,21),(2,7,14),(1,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,8),(2,7,14),(2,8,13),(2,7,12)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,7),(2,7,12),(2,7,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,8),(1,4,7),(2,7,14),(2,7,13)); lvl=3; h,r-ind=1,1
        [3,3]((2,7,14),(2,7,13),(3,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(2,7,13),(3,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(1,4,7),(3,11,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(2,7,14),(3,11,21)); lvl=4; h,r-ind=1,1
      [3,3]((2,8,13),(1,4,7),(2,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,21),(1,4,8),(2,7,14)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(6,19,34),(2,7,10),(2,7,12)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [3,3]((2,7,11),(2,7,12),(4,13,22)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((4,13,23),(2,7,12),(4,13,22)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((1,3,5),(4,13,23),(6,19,34),(4,13,22)); lvl=3; h,r-ind=1,2
        [3,3]((5,16,28),(6,19,34),(4,13,23)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,22),(5,16,28),(4,13,23)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,13,22),(5,16,28)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(5,16,28),(6,19,34)); lvl=4; h,r-ind=1,1
      [4,3]((1,3,5),(2,7,11),(2,7,10),(4,13,22)); lvl=3; h,r-ind=1,2
        [3,3]((3,10,16),(2,7,11),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(3,10,16),(2,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,22),(3,10,16),(2,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(4,13,22),(3,10,16)); lvl=4; h,r-ind=1,1
    [3,3]((1,3,5),(2,7,10),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,10),(1,4,5),(2,7,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,8,13),(2,7,10),(2,7,12),(1,4,5)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,6),(1,4,5),(2,7,10),(2,7,11)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,5),(2,7,10),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,11),(2,7,10),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,6),(1,4,5),(3,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,11),(1,4,6),(3,11,16)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,6),(2,7,12),(2,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,13),(1,4,6),(2,7,12)); lvl=3; h,r-ind=1,1
  [3,3]((2,5,10),(1,3,6),(1,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((3,10,21),(3,9,19),(2,5,10),(1,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((4,12,25),(3,9,19),(2,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(4,12,25),(2,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,21),(1,3,6),(4,12,25)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,21),(4,12,25),(3,9,19)); lvl=2; h,r-ind=1,1
  [3,3]((3,11,24),(3,10,21),(1,4,8)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((3,11,24),(3,10,21),(4,13,28),(3,9,19)); lvl=1; h,r-ind=1,1
    [3,3]((3,9,19),(2,7,15),(3,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((9,29,62),(3,9,19),(2,7,15)); lvl=2; h,r-ind=1,1
    [4,3]((3,11,24),(9,29,62),(4,13,28),(2,7,15)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,20,43),(4,13,28),(9,29,62)); lvl=3; h,r-ind=1,1
      [3,3]((6,20,43),(2,7,15),(9,29,62)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,24),(6,20,43),(2,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,24),(6,20,43),(4,13,28)); lvl=3; h,r-ind=1,1
    [3,3]((9,29,62),(4,13,28),(3,9,19)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,8),(1,4,5)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((0,1,0),(1,4,5),(2,7,9),(2,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,9),(4,15,18)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,4),(2,7,8),(2,7,9),(4,15,18)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,7,8),(3,11,13),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,18),(3,11,13),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,7,8),(3,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,18),(1,4,4),(3,11,13)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,4,4),(1,4,5),(4,15,18)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,8,9),(1,4,4),(4,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(1,4,5),(4,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,8,9),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,8,9),(1,4,4)); lvl=3; h,r-ind=1,1
```

24.38 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,13,24)); lvl=0; h,r-ind=24,192
  [5,3]((4,7,12),(2,5,9),(6,13,22),(3,10,18),(5,16,29)); lvl=1; h,r-ind=1,1
    [3,3]((5,15,27),(3,10,18),(5,16,29)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,9),(5,15,27),(5,16,29)); lvl=2; h,r-ind=1,1
    [4,3]((5,15,27),(3,10,18),(3,8,14),(10,25,44)); lvl=2; h,r-ind=1,1
      [4,3]((5,13,23),(10,27,48),(3,8,14),(3,9,16)); lvl=3; h,r-ind=1,1
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      [3,3]((8,22,39),(10,27,48),(3,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,14),(8,22,39),(3,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((5,13,23),(8,22,39),(10,27,48)); lvl=4; h,r-ind=1,1
      [3,3]((5,13,23),(3,8,14),(8,22,39)); lvl=4; h,r-ind=1,1
    [4,3]((5,15,27),(10,27,48),(3,10,18),(3,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,14,25),(3,9,16),(10,27,48)); lvl=4; h,r-ind=1,1
      [3,3]((5,14,25),(11,33,59),(3,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,18),(11,33,59),(3,9,16)); lvl=4; h,r-ind=1,1
      [4,3]((5,14,25),(5,15,27),(3,10,18),(11,33,59)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((8,24,43),(5,15,27),(3,10,18)); lvl=5; h,r-ind=1,1
        [3,3]((11,33,59),(8,24,43),(3,10,18)); lvl=5; h,r-ind=1,1
        [3,3]((5,14,25),(11,33,59),(8,24,43)); lvl=5; h,r-ind=1,1
        [3,3]((5,14,25),(8,24,43),(5,15,27)); lvl=5; h,r-ind=1,1
    [3,3]((10,25,44),(5,13,23),(3,8,14)); lvl=3; h,r-ind=1,1
  [4,3]((2,4,7),(3,7,12),(3,8,14),(10,25,44)); lvl=2; h,r-ind=1,1
    [3,3]((5,12,21),(3,8,14),(3,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(5,12,21),(3,7,12)); lvl=3; h,r-ind=1,1
    [3,3]((10,25,44),(5,12,21),(3,8,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(10,25,44),(5,12,21)); lvl=3; h,r-ind=1,1
  [3,3]((5,10,17),(2,4,7),(3,7,12)); lvl=2; h,r-ind=1,1
  [3,3]((5,10,17),(6,13,22),(3,7,12)); lvl=2; h,r-ind=1,1
  [3,3]((5,10,17),(4,7,12),(2,4,7)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,9),(5,15,27),(2,4,7),(10,25,44)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,7),(10,25,44),(5,13,23)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,7),(11,27,48),(10,27,48),(5,13,23)); lvl=3; h,r-ind=1,1
      [4,3]((5,13,23),(7,18,32),(14,35,62),(10,27,48)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((12,31,55),(7,18,32),(14,35,62)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,23),(12,31,55),(14,35,62)); lvl=5; h,r-ind=1,1
        [3,3]((10,27,48),(12,31,55),(7,18,32)); lvl=5; h,r-ind=1,1
        [3,3]((5,13,23),(10,27,48),(12,31,55)); lvl=5; h,r-ind=1,1
      [3,3]((2,4,7),(7,18,32),(14,35,62)); lvl=4; h,r-ind=1,1
      [3,3]((5,13,23),(2,4,7),(14,35,62)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,7),(7,18,32),(11,27,48)); lvl=4; h,r-ind=1,1
    [3,3]((2,4,7),(2,5,9),(11,27,48)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,9),(5,15,27),(11,27,48),(10,27,48)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((7,18,32),(5,14,25),(16,42,75)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((2,5,9),(5,15,27),(5,14,25),(16,42,75)); lvl=4; h,r-ind=1,3
        [3,3]((7,19,34),(5,14,25),(5,15,27)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,9),(7,19,34),(5,15,27)); lvl=5; h,r-ind=1,1
        [3,3]((7,19,34),(16,42,75),(5,14,25)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,9),(7,19,34),(16,42,75)); lvl=5; h,r-ind=1,1
      [4,3]((2,5,9),(11,27,48),(7,18,32),(16,42,75)); lvl=4; h,r-ind=1,3
        [3,3]((7,18,32),(9,23,41),(11,27,48)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,9),(9,23,41),(11,27,48)); lvl=5; h,r-ind=1,1
        [3,3]((16,42,75),(7,18,32),(9,23,41)); lvl=5; h,r-ind=1,1
        [3,3]((2,5,9),(16,42,75),(9,23,41)); lvl=5; h,r-ind=1,1
      [3,3]((7,18,32),(10,27,48),(5,14,25)); lvl=4; h,r-ind=1,1
[6,3]((4,15,27),(4,16,29),(3,12,22),(5,18,33),(3,10,18),(5,16,29)); lvl=1; h,r-ind=1,1
  [3,3]((4,15,27),(3,11,20),(4,16,29)); lvl=2; h,r-ind=1,1
  [3,3]((3,11,20),(3,12,22),(4,16,29)); lvl=2; h,r-ind=1,1
  [3,3]((3,11,20),(3,12,22),(5,18,33)); lvl=2; h,r-ind=1,1
  [3,3]((4,15,27),(3,11,20),(3,10,18)); lvl=2; h,r-ind=1,1
  [3,3]((3,11,20),(3,10,18),(5,16,29)); lvl=2; h,r-ind=1,1
  [3,3]((3,11,20),(5,16,29),(5,17,31)); lvl=2; h,r-ind=1,1
  [3,3]((3,11,20),(5,18,33),(5,17,31)); lvl=2; h,r-ind=1,1
[3,3]((3,13,24),(4,16,29),(3,12,22)); lvl=1; h,r-ind=1,1
[3,3]((3,13,24),(3,12,22),(5,18,33)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(3,13,24),(5,18,33)); lvl=1; h,r-ind=3,3; optimized-h
[4,3]((1,0,0),(5,18,33),(2,5,9),(5,16,29)); lvl=1; h,r-ind=1,1
  [3,3]((2,6,11),(5,18,33),(5,17,31)); lvl=2; h,r-ind=1,1
  [4,3]((2,6,11),(11,33,60),(7,22,40),(5,17,31)); lvl=2; h,r-ind=1,1
    [3,3]((9,28,51),(11,33,60),(7,22,40)); lvl=3; h,r-ind=1,1
    [3,3]((5,17,31),(9,28,51),(7,22,40)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,11),(5,17,31),(9,28,51)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,11),(9,28,51),(11,33,60)); lvl=3; h,r-ind=1,1
  [3,3]((5,16,29),(7,22,40),(5,17,31)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,9),(1,0,0),(2,6,11),(11,33,60)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((4,11,20),(1,0,0),(2,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((11,33,60),(4,11,20),(2,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(11,33,60),(4,11,20)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(4,11,20),(1,0,0)); lvl=3; h,r-ind=1,1
  [4,3]((2,5,9),(5,16,29),(11,33,60),(7,22,40)); lvl=2; h,r-ind=1,1
    [3,3]((9,27,49),(5,16,29),(7,22,40)); lvl=3; h,r-ind=1,1
    [3,3]((11,33,60),(9,27,49),(7,22,40)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(11,33,60),(9,27,49)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,9),(9,27,49),(5,16,29)); lvl=3; h,r-ind=1,1
[3,3]((1,0,0),(4,7,12),(2,5,9)); lvl=1; h,r-ind=3,3; optimized-h
[5,3]((4,15,27),(1,4,7),(6,13,22),(2,5,8),(3,10,18)); lvl=1; h,r-ind=1,1
  [3,3]((4,9,15),(6,13,22),(3,7,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,5),(4,9,15),(3,7,12)); lvl=2; h,r-ind=1,1
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    [4,3]((1,3,5),(8,23,40),(3,8,14),(3,7,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,11,19),(8,23,40),(3,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,12),(4,11,19),(3,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(3,7,12),(4,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(4,11,19),(8,23,40)); lvl=3; h,r-ind=1,1
    [4,3]((4,14,25),(3,10,18),(8,23,40),(3,8,14)); lvl=2; h,r-ind=1,1
      [4,3]((8,25,44),(4,12,21),(3,9,16),(3,8,14)); lvl=3; h,r-ind=1,1
        [3,3]((7,21,37),(3,8,14),(4,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((8,25,44),(7,21,37),(4,12,21)); lvl=4; h,r-ind=1,1
        [3,3]((7,21,37),(3,9,16),(3,8,14)); lvl=4; h,r-ind=1,1
        [3,3]((8,25,44),(7,21,37),(3,9,16)); lvl=4; h,r-ind=1,1
      [3,3]((8,23,40),(4,12,21),(3,8,14)); lvl=3; h,r-ind=1,1
      [4,3]((8,25,44),(4,14,25),(3,9,16),(3,10,18)); lvl=3; h,r-ind=1,1
        [4,3]((4,14,25),(4,13,23),(3,10,18),(10,32,57)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((7,23,41),(4,13,23),(10,32,57)); lvl=5; h,r-ind=1,1
          [3,3]((7,23,41),(3,10,18),(10,32,57)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,25),(7,23,41),(3,10,18)); lvl=5; h,r-ind=1,1
          [3,3]((4,14,25),(7,23,41),(4,13,23)); lvl=5; h,r-ind=1,1
        [3,3]((3,9,16),(3,10,18),(10,32,57)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,16),(4,13,23),(10,32,57)); lvl=4; h,r-ind=1,1
        [3,3]((8,25,44),(3,9,16),(4,13,23)); lvl=4; h,r-ind=1,1
    [3,3]((4,15,27),(4,14,25),(3,10,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,7),(4,15,27),(4,14,25)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,7),(4,14,25),(1,3,5),(8,23,40)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(4,12,21),(8,23,40)); lvl=3; h,r-ind=1,1
      [4,3]((7,23,40),(1,3,5),(8,25,44),(4,12,21)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,5),(4,12,21),(10,31,54)); lvl=4; h,r-ind=1,1
        [4,3]((5,16,28),(8,25,44),(4,12,21),(10,31,54)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((9,28,49),(8,25,44),(4,12,21)); lvl=5; h,r-ind=1,1
          [3,3]((10,31,54),(9,28,49),(4,12,21)); lvl=5; h,r-ind=1,1
          [3,3]((5,16,28),(10,31,54),(9,28,49)); lvl=5; h,r-ind=1,1
          [3,3]((5,16,28),(9,28,49),(8,25,44)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,28),(1,3,5),(10,31,54)); lvl=4; h,r-ind=1,1
        [3,3]((7,23,40),(5,16,28),(1,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(7,23,40),(1,3,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,7),(7,23,40),(4,14,25),(8,25,44)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((5,16,28),(4,13,23),(11,37,65)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,4,7),(4,14,25),(4,13,23),(11,37,65)); lvl=4; h,r-ind=1,3
          [3,3]((4,14,25),(5,17,30),(4,13,23)); lvl=5; h,r-ind=1,1
          [3,3]((11,37,65),(5,17,30),(4,13,23)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(11,37,65),(5,17,30)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(4,14,25),(5,17,30)); lvl=5; h,r-ind=1,1
        [4,3]((1,4,7),(7,23,40),(5,16,28),(11,37,65)); lvl=4; h,r-ind=1,3
          [3,3]((7,23,40),(6,20,35),(5,16,28)); lvl=5; h,r-ind=1,1
          [3,3]((11,37,65),(6,20,35),(5,16,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(11,37,65),(6,20,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,4,7),(7,23,40),(6,20,35)); lvl=5; h,r-ind=1,1
        [3,3]((5,16,28),(8,25,44),(4,13,23)); lvl=4; h,r-ind=1,1
  [3,3]((1,3,5),(2,5,8),(4,9,15)); lvl=2; h,r-ind=1,1
[3,3]((4,15,27),(4,16,29),(1,4,7)); lvl=1; h,r-ind=1,1
[4,3]((3,13,24),(3,14,24),(4,16,29),(1,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((4,16,29),(5,21,38),(1,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,16),(5,21,38),(1,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,9,16),(3,14,24),(1,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((3,13,24),(2,9,16),(5,21,38)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((3,13,24),(4,16,29),(5,21,38)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[3,3]((1,4,4),(1,4,7),(2,5,8)); lvl=1; h,r-ind=9,3; optimized-h
[4,3]((0,1,0),(3,14,24),(1,4,4),(1,4,7)); lvl=1; h,r-ind=3,2
  [4,3]((2,9,12),(2,8,11),(2,9,14),(1,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,14),(2,9,13),(1,4,7),(1,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,20),(1,4,6),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,14),(3,13,20),(1,4,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,13),(3,13,20),(1,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,14),(2,9,13),(3,13,20)); lvl=4; h,r-ind=1,1
    [3,3]((2,9,12),(2,9,13),(1,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,12),(2,8,11),(1,4,6)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,8),(2,9,14),(1,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,8),(3,14,24),(1,4,7)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,5,8),(2,9,12),(2,9,14)); lvl=2; h,r-ind=2,2
    [3,3]((2,9,13),(1,5,7),(2,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(1,5,7),(2,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,8),(1,5,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,9,12),(1,5,6),(2,9,13),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,19),(1,5,7),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,12),(3,14,19),(1,5,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,13),(3,14,19),(1,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,9,12),(2,9,13),(3,14,19)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,6),(1,5,7)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,4,4),(2,9,12),(2,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(1,4,4)); lvl=3; h,r-ind=1,1
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      [3,3]((0,1,0),(1,5,6),(1,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((2,9,12),(1,5,6),(2,8,11),(1,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((1,4,5),(2,8,11),(3,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,9,12),(2,8,11),(3,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(2,9,12),(3,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(1,4,5),(3,13,17)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,4,4)); lvl=1; h,r-ind=4,4; optimized-h
  [5,3]((1,0,0),(1,4,4),(4,7,12),(6,13,22),(2,5,8)); lvl=1; h,r-ind=2,1
    [4,3]((1,2,3),(4,8,13),(2,5,8),(4,9,15)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,18),(4,8,13),(4,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(5,11,18),(4,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,18),(4,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,8),(5,11,18)); lvl=3; h,r-ind=1,1
    [6,3]((4,8,13),(6,11,18),(6,13,22),(5,9,15),(5,10,17),(4,9,15)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,9,15),(6,11,18),(3,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,8,13),(6,11,18),(3,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,8,13),(4,9,15),(3,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,15),(5,10,17),(3,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,22),(5,10,17),(3,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,15),(6,13,22),(3,6,10)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,12),(5,9,15),(2,3,5),(5,10,17)); lvl=2; h,r-ind=1,1
      [3,3]((7,13,22),(2,3,5),(5,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,10,17),(7,13,22),(5,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,12),(5,10,17),(7,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,12),(7,13,22),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(4,7,12),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((6,11,18),(3,5,8),(5,9,15),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,8),(2,3,5),(8,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,15),(2,3,5),(8,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,18),(5,9,15),(8,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,18),(3,5,8),(8,14,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(3,5,8),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(4,8,13),(6,11,18),(3,5,8)); lvl=2; h,r-ind=1,1
      [3,3]((4,8,13),(6,11,18),(7,13,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,8),(6,11,18),(7,13,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,8,13),(7,13,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,8),(1,2,3),(7,13,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(3,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,2,3),(2,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,4),(1,3,4),(1,2,3),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,10),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(1,2,2),(3,8,10),(1,2,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,6),(1,2,2),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,10),(2,5,6),(1,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(3,8,10),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,5,6),(1,2,2)); lvl=4; h,r-ind=1,1
      [4,3]((1,4,4),(1,3,3),(1,3,4),(3,8,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,3),(3,8,10),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,10),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(1,3,3),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(1,4,4),(2,6,7)); lvl=4; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,2,2)); lvl=2; h,r-ind=2,2; alert-r-inc; optimized-h
```

24.39 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,14,24)); lvl=0; h,r-ind=24,96
  [3,3]((1,4,6),(1,4,4),(1,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,0,0),(1,2,3),(1,4,4),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,4),(5,12,16)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,4),(1,2,2),(1,3,4),(5,12,16)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,3,4),(3,8,10),(5,12,16),(3,7,9)); lvl=3; h,r-ind=1,2
        [3,3]((4,10,13),(3,8,10),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,16),(4,10,13),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(5,12,16),(4,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(4,10,13),(3,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(3,8,10),(3,7,9)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((1,3,3),(1,2,2),(3,8,10)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((1,3,3),(1,4,4),(1,3,4),(3,8,10)); lvl=3; h,r-ind=1,2
        [3,3]((1,4,4),(2,6,7),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,10),(2,6,7),(1,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(1,4,4),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,10),(1,3,3),(2,6,7)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(1,2,2),(1,2,3),(5,12,16)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,2,3),(3,6,8),(3,7,9),(5,12,16)); lvl=3; h,r-ind=1,2
        [3,3]((4,9,12),(3,7,9),(3,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(4,9,12),(3,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,16),(4,9,12),(3,7,9)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((1,2,3),(5,12,16),(4,9,12)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,2),(3,6,8),(3,7,9)); lvl=3; h,r-ind=2,2; optimized-h
    [3,3]((1,1,1),(1,2,2),(3,6,8)); lvl=3; h,r-ind=2,2; optimized-h
    [4,3]((1,2,3),(1,0,0),(1,1,1),(3,6,8)); lvl=3; h,r-ind=1,2
      [3,3]((1,1,1),(2,3,4),(1,0,0)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,4),(1,0,0)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,8),(1,1,1),(2,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(3,6,8),(2,3,4)); lvl=4; h,r-ind=1,1
[3,3]((0,1,0),(1,0,0),(1,4,4)); lvl=1; h,r-ind=4,4; optimized-h
[5,3]((1,2,3),(2,8,13),(1,3,5),(1,4,6),(1,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((3,9,14),(1,2,3),(1,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((2,7,11),(3,9,14),(4,13,20),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,14),(4,13,20),(5,16,25)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,11),(4,13,20),(5,16,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(2,7,11),(5,16,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,5),(3,9,14),(5,16,25)); lvl=3; h,r-ind=1,1
  [3,3]((2,8,13),(2,7,11),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((2,8,13),(2,7,11),(1,4,6)); lvl=2; h,r-ind=1,1
  [5,3]((3,9,14),(4,13,20),(1,3,4),(3,10,15),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,15),(4,13,20),(2,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,9,14),(4,13,20),(2,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,9,14),(1,2,3),(2,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,15),(1,3,4),(2,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(1,3,4),(2,6,9)); lvl=3; h,r-ind=1,1
  [4,3]((2,7,11),(4,13,20),(1,4,6),(3,10,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,15),(4,13,20),(5,17,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,11),(4,13,20),(5,17,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(2,7,11),(5,17,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(3,10,15),(5,17,26)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,4),(1,4,6),(3,10,15)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,2,3),(1,3,5)); lvl=1; h,r-ind=1,1
[5,3]((1,5,8),(2,9,15),(2,8,13),(5,21,35),(1,4,6)); lvl=1; h,r-ind=1,1
  [4,3]((4,17,28),(7,30,49),(5,22,36),(2,9,15)); lvl=2; h,r-ind=1,1
    [3,3]((9,39,64),(5,22,36),(7,30,49)); lvl=3; h,r-ind=1,1
    [3,3]((4,17,28),(9,39,64),(7,30,49)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,15),(9,39,64),(5,22,36)); lvl=3; h,r-ind=1,1
    [3,3]((4,17,28),(2,9,15),(9,39,64)); lvl=3; h,r-ind=1,1
  [3,3]((1,5,8),(5,22,36),(2,9,15)); lvl=2; h,r-ind=1,1
  [3,3]((4,17,28),(5,21,35),(2,9,15)); lvl=2; h,r-ind=1,1
  [4,3]((4,17,28),(7,30,49),(2,8,13),(5,21,34)); lvl=2; h,r-ind=1,1
    [3,3]((9,38,62),(5,21,34),(7,30,49)); lvl=3; h,r-ind=1,1
    [3,3]((4,17,28),(9,38,62),(7,30,49)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,13),(9,38,62),(5,21,34)); lvl=3; h,r-ind=1,1
    [3,3]((4,17,28),(2,8,13),(9,38,62)); lvl=3; h,r-ind=1,1
  [5,3]((1,5,8),(1,4,6),(7,30,49),(5,22,36),(5,21,34)); lvl=2; h,r-ind=1,1
    [3,3]((3,13,21),(5,22,36),(7,30,49)); lvl=3; h,r-ind=1,1
    [3,3]((5,21,34),(3,13,21),(7,30,49)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(5,21,34),(3,13,21)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,8),(3,13,21),(5,22,36)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,5,8),(3,13,21)); lvl=3; h,r-ind=1,1
  [3,3]((4,17,28),(5,21,35),(2,8,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,6),(2,8,13),(5,21,34)); lvl=2; h,r-ind=1,1
[4,3]((2,8,13),(5,21,35),(6,25,42),(1,3,5)); lvl=1; h,r-ind=1,2
  [3,3]((3,12,20),(6,25,42),(5,21,35)); lvl=2; h,r-ind=1,1
  [3,3]((2,8,13),(3,12,20),(5,21,35)); lvl=2; h,r-ind=1,1
  [3,3]((1,3,5),(3,12,20),(6,25,42)); lvl=2; h,r-ind=1,1
  [3,3]((2,8,13),(1,3,5),(3,12,20)); lvl=2; h,r-ind=1,1
[4,3]((3,14,24),(6,25,42),(1,3,5),(2,7,12)); lvl=1; h,r-ind=1,2
  [3,3]((3,13,22),(1,3,5),(6,25,42)); lvl=2; h,r-ind=1,1
  [3,3]((3,13,22),(5,20,34),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((5,20,34),(2,7,12),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((3,14,24),(5,20,34),(2,7,12)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
  [3,3]((3,14,24),(3,13,22),(5,20,34)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
[3,3]((1,0,0),(1,3,5),(2,7,12)); lvl=1; h,r-ind=1,1
[4,3]((3,14,24),(2,9,15),(5,21,35),(6,25,42)); lvl=1; h,r-ind=1,1
  [3,3]((2,9,15),(5,21,35),(10,43,72)); lvl=2; h,r-ind=1,1
  [4,3]((6,25,42),(3,13,22),(5,21,35),(10,43,72)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((8,34,57),(10,43,72),(3,13,22)); lvl=3; h,r-ind=1,1
    [3,3]((6,25,42),(8,34,57),(3,13,22)); lvl=3; h,r-ind=1,1
    [3,3]((5,21,35),(6,25,42),(8,34,57)); lvl=3; h,r-ind=1,1
    [3,3]((5,21,35),(8,34,57),(10,43,72)); lvl=3; h,r-ind=1,1
  [3,3]((3,13,22),(2,9,15),(10,43,72)); lvl=2; h,r-ind=1,1
  [3,3]((3,14,24),(3,13,22),(2,9,15)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(1,5,8),(1,4,6),(1,4,4)); lvl=1; h,r-ind=2,2
  [3,3]((1,5,7),(1,5,8),(1,4,6)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,5),(1,5,7),(1,5,6),(1,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(1,5,7),(2,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,5,7),(2,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,5),(1,5,6),(2,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,4,5),(2,9,12)); lvl=3; h,r-ind=1,1
```

```
    [4,3]((0,1,0),(1,4,4),(1,4,5),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,5),(1,4,4),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,5),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,6),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,7),(1,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,5,7),(1,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((1,5,8),(3,14,24),(2,9,15)); lvl=1; h,r-ind=1,1
```

24.40 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,16,24)); lvl=0; h,r-ind=24,24
  [3,3]((0,1,0),(1,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,6,9),(1,3,3),(1,0,0)); lvl=1; h,r-ind=9,3; optimized-h
  [4,3]((3,16,24),(3,17,24),(3,14,21),(1,5,7)); lvl=1; h,r-ind=3,3
    [4,3]((2,11,16),(6,31,45),(1,5,7),(3,17,24)); lvl=2; h,r-ind=1,3
      [3,3]((3,16,23),(6,31,45),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,24),(3,16,23),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,16),(3,17,24),(3,16,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,16),(3,16,23),(6,31,45)); lvl=3; h,r-ind=1,1
    [4,3]((2,10,15),(6,31,45),(3,14,21),(1,5,7)); lvl=2; h,r-ind=1,3
      [3,3]((1,5,7),(3,15,22),(6,31,45)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,15),(3,15,22),(6,31,45)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,21),(2,10,15),(3,15,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,21),(1,5,7),(3,15,22)); lvl=3; h,r-ind=1,1
    [3,3]((2,11,16),(2,10,15),(6,31,45)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((2,11,16),(3,16,24),(2,10,15)); lvl=2; h,r-ind=1,1
  [3,3]((1,4,4),(0,1,0),(1,3,3)); lvl=1; h,r-ind=1,1
  [5,3]((3,14,21),(2,6,9),(1,5,7),(1,4,4),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,4),(1,3,3),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(3,12,16),(1,3,3),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,12,16),(2,7,9),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,9),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(2,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,12,16),(2,7,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(3,12,16),(3,13,18)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,4,6),(1,3,4),(3,12,16)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,4,6),(2,6,9),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,7),(1,4,4),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((3,12,16),(1,5,7),(3,13,18),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,13,18),(4,17,23),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(4,17,23),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,16),(3,13,18),(4,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,12,16),(4,17,23)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,6),(3,14,21),(1,5,7),(3,13,18)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,9,13),(1,5,7),(3,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(2,9,13),(3,14,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,13,18),(2,9,13),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,6),(3,13,18),(2,9,13)); lvl=3; h,r-ind=1,1
  [4,3]((3,17,24),(1,5,7),(1,4,4),(0,1,0)); lvl=1; h,r-ind=3,3
    [5,3]((2,11,12),(2,11,13),(3,16,20),(1,5,6),(2,10,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,16,19),(3,16,20),(2,11,13)); lvl=3; h,r-ind=1,1
      [4,3]((5,27,31),(3,16,19),(6,32,37),(2,11,13)); lvl=3; h,r-ind=1,1
        [3,3]((8,43,50),(6,32,37),(3,16,19)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,13),(8,43,50),(3,16,19)); lvl=4; h,r-ind=1,1
        [3,3]((5,27,31),(2,11,13),(8,43,50)); lvl=4; h,r-ind=1,1
        [3,3]((5,27,31),(8,43,50),(6,32,37)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,12),(5,27,31),(2,11,13)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,12),(4,21,24),(5,27,31),(6,32,37)); lvl=3; h,r-ind=1,1
        [4,3]((3,16,18),(4,21,24),(6,32,37),(14,75,86)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((9,48,55),(4,21,24),(6,32,37)); lvl=5; h,r-ind=1,1
          [3,3]((14,75,86),(9,48,55),(6,32,37)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,18),(14,75,86),(9,48,55)); lvl=5; h,r-ind=1,1
          [3,3]((3,16,18),(9,48,55),(4,21,24)); lvl=5; h,r-ind=1,1
        [3,3]((5,27,31),(6,32,37),(14,75,86)); lvl=4; h,r-ind=1,1
        [4,3]((5,27,31),(2,11,12),(3,16,18),(14,75,86)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((8,43,49),(2,11,12),(3,16,18)); lvl=5; h,r-ind=1,1
          [3,3]((14,75,86),(8,43,49),(3,16,18)); lvl=5; h,r-ind=1,1
          [3,3]((5,27,31),(14,75,86),(8,43,49)); lvl=5; h,r-ind=1,1
          [3,3]((5,27,31),(8,43,49),(2,11,12)); lvl=5; h,r-ind=1,1
      [3,3]((3,16,19),(1,5,6),(3,16,20)); lvl=3; h,r-ind=1,1
      [4,3]((4,21,24),(3,16,19),(6,32,37),(1,5,6)); lvl=3; h,r-ind=1,1
        [3,3]((3,16,19),(6,32,37),(7,37,43)); lvl=4; h,r-ind=1,1
        [3,3]((4,21,24),(6,32,37),(7,37,43)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(4,21,24),(7,37,43)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,6),(3,16,19),(7,37,43)); lvl=4; h,r-ind=1,1
      [3,3]((4,21,24),(2,10,11),(1,5,6)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,11,12),(4,21,24),(2,10,11)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,4,4),(1,5,6),(2,10,11)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(2,11,12),(1,4,4),(2,10,11)); lvl=2; h,r-ind=1,1
      [3,3]((1,5,5),(2,10,11),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(1,5,5),(2,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,6),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,5,5),(2,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(1,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,7),(1,4,4),(1,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(2,11,12),(2,11,13),(1,6,7)); lvl=2; h,r-ind=1,1
      [4,3]((1,6,6),(2,11,12),(2,11,13),(4,23,26)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,11,12),(3,17,19),(2,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,23,26),(3,17,19),(2,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(2,11,12),(3,17,19)); lvl=4; h,r-ind=1,1
        [3,3]((4,23,26),(1,6,6),(3,17,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,13),(4,23,26)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,6,7),(1,6,6),(4,23,26)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,12,13),(1,6,7),(4,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(2,12,13),(4,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,12,13),(1,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(0,1,0),(2,12,13)); lvl=4; h,r-ind=1,1
    [3,3]((1,6,8),(0,1,0),(1,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,5,7),(3,16,21),(3,16,20),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,16,21),(3,16,20),(4,21,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(3,16,20),(4,21,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(3,16,21),(4,21,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,7),(4,21,27)); lvl=3; h,r-ind=1,1
    [4,3]((3,17,24),(1,6,8),(1,5,7),(3,16,21)); lvl=2; h,r-ind=1,3
      [3,3]((1,6,8),(2,11,15),(3,16,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,7),(2,11,15),(3,16,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,24),(1,5,7),(2,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,17,24),(1,6,8),(2,11,15)); lvl=3; h,r-ind=1,1
    [5,3]((1,6,8),(2,11,13),(1,6,7),(3,16,21),(3,16,20)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,14),(3,16,21),(3,16,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(2,11,13),(3,16,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,14),(2,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(1,6,7),(2,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(2,11,14),(3,16,21)); lvl=3; h,r-ind=1,1
```

24.41 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,17,24)); lvl=0; h,r-ind=24,192
  [3,3]((1,3,4),(1,5,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,17,24),(1,5,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,4),(1,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,4),(1,3,3),(1,4,4),(1,5,7)); lvl=1; h,r-ind=1,2
    [3,3]((1,4,5),(1,3,3),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,7),(1,4,5),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(1,4,5),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,7),(1,3,4),(1,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,6,8),(1,4,4),(1,5,7)); lvl=1; h,r-ind=1,2
    [3,3]((2,11,14),(1,5,7),(1,6,8)); lvl=2; h,r-ind=1,1
    [5,3]((0,1,0),(1,6,6),(2,11,13),(2,11,14),(1,6,8)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,13),(1,6,7),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,7),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(1,6,7),(2,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,8),(1,6,7),(2,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,6,8),(1,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,11,13),(2,11,14),(1,5,6),(1,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,16,20),(1,5,7),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(3,16,20),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,14),(3,16,20),(1,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(2,11,14),(3,16,20)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(1,5,6),(1,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,6),(2,11,13),(2,10,11),(1,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((2,11,12),(2,10,11),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(2,11,12),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,6),(2,11,12),(2,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,11,13),(1,6,6),(2,11,12)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,4),(2,10,11),(1,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,6,6),(1,4,4),(2,10,11)); lvl=2; h,r-ind=1,2
      [3,3]((1,5,5),(2,10,11),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,5,5),(2,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(1,5,5)); lvl=3; h,r-ind=1,1
```

```
  [3,3]((3,17,24),(1,6,8),(1,5,7)); lvl=1; h,r-ind=1,1
```

24.42 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,19,24)); lvl=0; h,r-ind=24,192
  [5,3]((1,5,6),(1,4,4),(2,5,6),(1,2,2),(1,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(2,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,5,6),(1,4,5),(4,16,19)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(1,3,3),(2,6,7),(2,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,8),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(2,7,8),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(3,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(1,2,2),(3,9,10)); lvl=3; h,r-ind=1,1
    [5,3]((1,4,4),(1,5,6),(4,16,19),(1,3,3),(2,7,8)); lvl=2; h,r-ind=1,1
      [4,3]((3,12,14),(5,20,23),(4,15,17),(2,7,8)); lvl=3; h,r-ind=1,1
        [3,3]((5,20,23),(4,15,17),(7,27,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(4,15,17),(7,27,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,12,14),(5,20,23),(7,27,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,8),(3,12,14),(7,27,31)); lvl=4; h,r-ind=1,1
      [3,3]((1,3,3),(4,15,17),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,16,19),(3,12,14),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(4,16,19),(3,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(3,12,14),(5,20,23)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(5,20,23),(2,8,9),(4,15,17)); lvl=3; h,r-ind=1,1
        [3,3]((2,8,9),(5,20,23),(6,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,17),(5,20,23),(6,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,8,9),(6,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,17),(1,3,3),(6,23,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(1,3,3),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,4,4),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(5,20,23),(2,8,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,4,5),(4,16,19),(2,6,7),(2,7,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,11,13),(2,7,8),(4,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(3,11,13),(4,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(3,11,13),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,6,7),(3,11,13)); lvl=3; h,r-ind=1,1
  [4,3]((3,16,20),(3,17,21),(1,5,6),(1,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((4,21,26),(1,5,6),(3,17,21)); lvl=2; h,r-ind=1,1
    [3,3]((3,16,20),(4,21,26),(3,17,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(3,16,20),(4,21,26)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(4,21,26),(1,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((3,19,24),(3,16,20),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,19,24),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,19,24),(3,16,20),(3,17,21)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((3,17,21),(0,1,0),(1,5,6),(3,20,24),(1,4,4)); lvl=1; h,r-ind=1,1
    [3,3]((2,11,12),(1,6,6),(1,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,7,8),(1,6,6),(1,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,7,7),(1,6,6),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(1,7,7),(1,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,8),(1,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(1,6,6)); lvl=3; h,r-ind=1,1
    [4,3]((6,37,45),(3,20,24),(1,7,8),(1,6,7)); lvl=2; h,r-ind=1,1
      [4,3]((3,19,23),(5,32,38),(3,20,24),(1,7,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,26,31),(5,32,38),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,20,24),(4,26,31),(1,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,19,23),(3,20,24),(4,26,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,19,23),(4,26,31),(5,32,38)); lvl=4; h,r-ind=1,1
      [3,3]((1,6,7),(5,32,38),(1,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,19,23),(1,6,7),(5,32,38)); lvl=3; h,r-ind=1,1
      [3,3]((6,37,45),(3,19,23),(1,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,10,11),(2,11,12),(1,5,6),(1,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,6,7),(2,11,12),(3,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,10,11),(2,11,12),(3,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(2,10,11),(3,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,6,7),(3,16,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,17,21),(1,5,6),(1,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,17,21),(6,37,45),(1,6,7)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,10,11),(2,11,12),(1,4,4),(1,6,6)); lvl=2; h,r-ind=1,1
      [4,3]((2,11,12),(5,26,28),(1,6,6),(1,5,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,26,28),(3,16,17),(1,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,6,6),(3,16,17),(1,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(1,6,6),(3,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(5,26,28),(3,16,17)); lvl=4; h,r-ind=1,1
      [4,3]((2,10,11),(1,4,4),(5,26,28),(1,5,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,5,5),(3,15,16),(1,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(3,15,16),(1,4,4)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((5,26,28),(1,5,5),(3,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,10,11),(5,26,28),(3,15,16)); lvl=4; h,r-ind=1,1
      [3,3]((2,10,11),(2,11,12),(5,26,28)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(1,6,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,10,11),(1,5,6),(1,4,4)); lvl=2; h,r-ind=1,1
  [3,3]((3,19,24),(3,17,21),(3,20,24)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,4,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(2,5,6),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,5,6),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

24.43 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,20,24)); lvl=0; h,r-ind=24,48
  [3,3]((1,5,6),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,5,6),(1,6,7),(1,4,4),(1,2,2)); lvl=1; h,r-ind=1,1
    [4,3]((1,6,7),(3,14,16),(1,4,4),(1,3,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,10),(1,3,3),(3,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(2,9,10),(3,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,6,7),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,9,10),(1,3,3)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(1,5,6),(3,14,16),(1,3,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,8,9),(3,14,16),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,8,9),(1,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,8,9),(3,14,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,5,6),(1,6,7),(3,14,16)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,4,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,20,24),(1,5,6),(1,6,7)); lvl=1; h,r-ind=1,1
  [4,3]((1,6,7),(0,1,0),(1,4,4),(1,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,5),(1,6,6),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,8),(3,19,21),(1,6,6),(0,1,0)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,20,21),(2,13,14),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,19,21),(2,13,14),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(3,19,21),(2,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,7),(3,20,21),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,7),(1,6,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(1,7,7),(3,20,21)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,7,8),(1,7,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,8),(3,20,21),(2,13,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,6,7),(1,7,8),(3,19,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,4),(1,5,5),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,6,7),(1,4,4),(1,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,7),(3,19,21),(1,5,5),(1,6,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,6,6),(3,19,21),(2,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(3,19,21),(2,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,5),(1,6,6),(2,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,6,7),(1,5,5),(2,12,13)); lvl=3; h,r-ind=1,1
  [3,3]((3,20,24),(1,6,7),(1,7,8)); lvl=1; h,r-ind=1,1
```

24.44 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,22,24)); lvl=0; h,r-ind=24,96
  [4,3]((3,13,14),(1,1,1),(1,0,0),(2,11,12)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(3,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,12),(1,0,0),(3,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,13,14),(2,11,12),(3,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,13,14),(1,1,1),(3,12,13)); lvl=2; h,r-ind=1,1
  [4,3]((3,22,24),(3,13,14),(3,17,18),(2,11,12)); lvl=1; h,r-ind=2,2
    [3,3]((2,12,13),(3,15,16),(3,13,14)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((2,11,12),(2,12,13),(3,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,11,12),(3,22,24),(2,12,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,13,14),(2,12,13),(3,17,18),(3,15,16)); lvl=2; h,r-ind=1,1
      [4,3]((7,41,44),(3,16,17),(3,15,16),(2,12,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,28,30),(3,16,17),(3,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((5,28,30),(2,12,13),(3,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((7,41,44),(5,28,30),(2,12,13)); lvl=4; h,r-ind=1,1
        [3,3]((7,41,44),(5,28,30),(3,16,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,13,14),(7,41,44),(2,12,13)); lvl=3; h,r-ind=1,1
      [4,3]((2,13,14),(7,41,44),(3,17,18),(3,16,17)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,16,17),(7,41,44),(5,29,31)); lvl=4; h,r-ind=1,1
        [3,3]((2,13,14),(7,41,44),(5,29,31)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,18),(3,16,17),(5,29,31)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((2,13,14),(3,17,18),(5,29,31)); lvl=4; h,r-ind=1,1
    [3,3]((3,22,24),(2,13,14),(2,12,13)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,4),(3,13,14),(3,17,18),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,1),(2,5,5),(3,13,14),(3,15,16)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(3,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,14,15),(3,15,16)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(1,2,2),(3,13,14),(3,14,15)); lvl=3; h,r-ind=1,1
        [3,3]((1,2,2),(3,14,15),(4,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,14),(3,14,15),(4,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,2,2),(4,15,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,13,14),(1,1,1),(4,15,16)); lvl=4; h,r-ind=1,1
    [4,3]((1,4,4),(2,5,5),(3,17,18),(3,15,16)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(3,15,16),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,16,17),(3,15,16)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,4),(1,3,3),(3,17,18),(3,16,17)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,3),(3,16,17),(4,20,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,18),(3,16,17),(4,20,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(1,3,3),(4,20,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,17,18),(1,4,4),(4,20,21)); lvl=4; h,r-ind=1,1
[3,3]((0,1,0),(1,4,4),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
[4,3]((0,1,0),(1,4,4),(3,23,24),(3,17,18)); lvl=1; h,r-ind=6,6
  [3,3]((1,5,5),(1,4,4),(3,17,18)); lvl=2; h,r-ind=1,1
  [4,3]((1,5,5),(1,6,6),(3,20,21),(3,17,18)); lvl=2; h,r-ind=1,1
    [4,3]((1,6,6),(6,35,36),(3,20,21),(6,37,39)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((4,24,25),(3,19,20),(9,55,57)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,6,6),(3,20,21),(3,19,20),(9,55,57)); lvl=4; h,r-ind=1,3
        [3,3]((3,20,21),(4,25,26),(3,19,20)); lvl=5; h,r-ind=1,1
        [3,3]((9,55,57),(4,25,26),(3,19,20)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(9,55,57),(4,25,26)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(3,20,21),(4,25,26)); lvl=5; h,r-ind=1,1
      [4,3]((1,6,6),(6,35,36),(4,24,25),(9,55,57)); lvl=4; h,r-ind=1,3
        [3,3]((5,30,31),(6,35,36),(4,24,25)); lvl=5; h,r-ind=1,1
        [3,3]((9,55,57),(5,30,31),(4,24,25)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(9,55,57),(5,30,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(5,30,31),(6,35,36)); lvl=5; h,r-ind=1,1
      [3,3]((4,24,25),(6,37,39),(3,19,20)); lvl=4; h,r-ind=1,1
    [4,3]((3,17,18),(1,5,5),(6,35,36),(6,37,39)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((9,52,54),(1,5,5),(6,35,36),(4,24,25)); lvl=4; h,r-ind=1,3
        [3,3]((1,5,5),(6,35,36),(5,29,30)); lvl=5; h,r-ind=1,1
        [3,3]((4,24,25),(6,35,36),(5,29,30)); lvl=5; h,r-ind=1,1
        [3,3]((9,52,54),(1,5,5),(5,29,30)); lvl=5; h,r-ind=1,1
        [3,3]((4,24,25),(9,52,54),(5,29,30)); lvl=5; h,r-ind=1,1
      [3,3]((3,18,19),(9,52,54),(4,24,25)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((3,18,19),(6,37,39),(4,24,25)); lvl=4; h,r-ind=1,1
      [4,3]((3,17,18),(3,18,19),(9,52,54),(1,5,5)); lvl=4; h,r-ind=1,3
        [3,3]((3,18,19),(4,23,24),(9,52,54)); lvl=5; h,r-ind=1,1
        [3,3]((1,5,5),(4,23,24),(9,52,54)); lvl=5; h,r-ind=1,1
        [3,3]((3,17,18),(1,5,5),(4,23,24)); lvl=5; h,r-ind=1,1
        [3,3]((3,17,18),(3,18,19),(4,23,24)); lvl=5; h,r-ind=1,1
    [3,3]((1,5,5),(1,6,6),(6,35,36)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,5,5),(1,6,6)); lvl=2; h,r-ind=1,1
  [4,3]((1,8,8),(3,23,24),(1,6,6),(3,20,21)); lvl=2; h,r-ind=1,1
    [4,3]((1,7,7),(1,6,6),(3,20,21),(6,43,45)); lvl=3; h,r-ind=1,1
      [4,3]((5,34,35),(3,21,22),(1,6,6),(3,20,21)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((3,21,22),(3,20,21),(4,27,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(3,20,21),(4,27,28)); lvl=5; h,r-ind=1,1
        [3,3]((5,34,35),(3,21,22),(4,27,28)); lvl=5; h,r-ind=1,1
        [3,3]((1,6,6),(5,34,35),(4,27,28)); lvl=5; h,r-ind=1,1
      [3,3]((1,7,7),(5,34,35),(3,21,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,7),(3,21,22),(6,43,45)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,7),(5,34,35),(1,6,6)); lvl=4; h,r-ind=1,1
    [4,3]((1,8,8),(1,7,7),(3,23,24),(6,43,45)); lvl=3; h,r-ind=1,1
      [3,3]((1,7,7),(3,22,23),(5,37,38)); lvl=4; h,r-ind=1,1
      [4,3]((1,8,8),(3,23,24),(3,22,23),(5,37,38)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((4,30,31),(3,23,24),(3,22,23)); lvl=5; h,r-ind=1,1
        [3,3]((5,37,38),(4,30,31),(3,22,23)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,8),(5,37,38),(4,30,31)); lvl=5; h,r-ind=1,1
        [3,3]((1,8,8),(4,30,31),(3,23,24)); lvl=5; h,r-ind=1,1
      [3,3]((1,8,8),(1,7,7),(5,37,38)); lvl=4; h,r-ind=1,1
      [3,3]((1,7,7),(6,43,45),(3,22,23)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(1,8,8),(1,6,6)); lvl=2; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,5,5),(1,4,4)); lvl=2; h,r-ind=1,1
[3,3]((3,22,24),(3,23,24),(3,17,18)); lvl=1; h,r-ind=18,6; optimized-h
[3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
```

24.45 Resolved

```
[3,3]((1,0,0),(0,1,0),(3,23,24)); lvl=0; h,r-ind=24,192
  [3,3]((0,1,0),(1,8,8),(1,4,4)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((3,23,24),(1,8,8),(1,4,4)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,1,1),(0,1,0),(1,4,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((3,23,24),(1,1,1),(1,4,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(3,23,24),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
```

24.46 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,5,24)); lvl=0; h,r-ind=24,144
  [5,3]((5,6,24),(1,1,4),(12,13,60),(5,6,25),(5,5,23)); lvl=1; h,r-ind=1,1
    [4,3]((6,7,29),(10,11,49),(2,2,9),(1,1,4)); lvl=2; h,r-ind=1,1
      [4,3]((8,9,39),(10,11,49),(2,2,9),(14,15,65)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((9,10,44),(10,11,49),(12,13,57),(2,2,9)); lvl=4; h,r-ind=1,2
          [3,3]((11,12,53),(10,11,49),(2,2,9)); lvl=5; h,r-ind=1,1
          [3,3]((12,13,57),(11,12,53),(2,2,9)); lvl=5; h,r-ind=1,1
          [3,3]((9,10,44),(12,13,57),(11,12,53)); lvl=5; h,r-ind=1,1
          [3,3]((9,10,44),(11,12,53),(10,11,49)); lvl=5; h,r-ind=1,1
        [4,3]((11,12,52),(14,15,65),(12,13,57),(2,2,9)); lvl=4; h,r-ind=1,2
          [3,3]((2,2,9),(14,15,65),(13,14,61)); lvl=5; h,r-ind=1,1
          [3,3]((11,12,52),(14,15,65),(13,14,61)); lvl=5; h,r-ind=1,1
          [3,3]((12,13,57),(2,2,9),(13,14,61)); lvl=5; h,r-ind=1,1
          [3,3]((11,12,52),(12,13,57),(13,14,61)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,39),(9,10,44),(12,13,57)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((8,9,39),(11,12,52),(12,13,57)); lvl=4; h,r-ind=2,2; optimized-h
      [3,3]((1,1,4),(2,2,9),(14,15,65)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,4),(6,7,29),(8,9,39),(14,15,65)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,1,4),(10,11,47),(7,8,34),(6,7,29)); lvl=4; h,r-ind=1,2
          [3,3]((8,9,38),(10,11,47),(7,8,34)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,29),(8,9,38),(7,8,34)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(6,7,29),(8,9,38)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(8,9,38),(10,11,47)); lvl=5; h,r-ind=1,1
        [3,3]((10,11,47),(8,9,39),(7,8,34)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((11,12,52),(10,11,47),(8,9,39)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,1,4),(11,12,52),(14,15,65),(10,11,47)); lvl=4; h,r-ind=1,2
          [3,3]((12,13,56),(14,15,65),(11,12,52)); lvl=5; h,r-ind=1,1
          [3,3]((10,11,47),(12,13,56),(11,12,52)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(10,11,47),(12,13,56)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(12,13,56),(14,15,65)); lvl=5; h,r-ind=1,1
    [3,3]((5,6,24),(6,7,29),(1,1,4)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,25),(6,7,29),(17,19,85),(10,11,49)); lvl=2; h,r-ind=1,1
      [4,3]((8,9,40),(7,8,35),(8,9,39),(10,11,49)); lvl=3; h,r-ind=1,1
        [4,3]((24,27,119),(9,10,44),(8,9,39),(7,8,35)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((16,18,79),(8,9,39),(9,10,44)); lvl=5; h,r-ind=1,1
          [3,3]((24,27,119),(16,18,79),(9,10,44)); lvl=5; h,r-ind=1,1
          [3,3]((16,18,79),(7,8,35),(8,9,39)); lvl=5; h,r-ind=1,1
          [3,3]((24,27,119),(16,18,79),(7,8,35)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,40),(24,27,119),(7,8,35)); lvl=4; h,r-ind=1,1
        [4,3]((8,9,40),(24,27,119),(10,11,49),(9,10,44)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((24,27,119),(17,19,84),(9,10,44)); lvl=5; h,r-ind=1,1
          [3,3]((10,11,49),(17,19,84),(9,10,44)); lvl=5; h,r-ind=1,1
          [3,3]((8,9,40),(10,11,49),(17,19,84)); lvl=5; h,r-ind=1,1
          [3,3]((8,9,40),(24,27,119),(17,19,84)); lvl=5; h,r-ind=1,1
      [3,3]((17,19,85),(8,9,40),(10,11,49)); lvl=3; h,r-ind=1,1
      [4,3]((5,6,25),(7,8,35),(6,7,29),(8,9,39)); lvl=3; h,r-ind=2,1; alert-h-inc
        [4,3]((6,7,30),(7,8,34),(7,8,35),(8,9,39)); lvl=4; h,r-ind=1,1
          [3,3]((8,9,39),(7,8,34),(14,16,69)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,30),(7,8,34),(14,16,69)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,35),(6,7,30),(14,16,69)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,35),(8,9,39),(14,16,69)); lvl=5; h,r-ind=1,1
        [4,3]((5,6,25),(6,7,30),(6,7,29),(7,8,34)); lvl=4; h,r-ind=1,1
          [3,3]((12,14,59),(7,8,34),(6,7,30)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,25),(12,14,59),(6,7,30)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,29),(12,14,59),(7,8,34)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,25),(6,7,29),(12,14,59)); lvl=5; h,r-ind=1,1
    [3,3]((5,6,24),(5,6,25),(6,7,29)); lvl=2; h,r-ind=1,1
    [4,3]((12,13,60),(17,19,85),(10,11,49),(2,2,9)); lvl=2; h,r-ind=1,1
      [4,3]((17,19,85),(9,10,45),(10,11,49),(21,23,103)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,10,45),(19,21,94),(21,23,103)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,49),(19,21,94),(21,23,103)); lvl=4; h,r-ind=1,1
        [3,3]((17,19,85),(10,11,49),(19,21,94)); lvl=4; h,r-ind=1,1
        [3,3]((17,19,85),(9,10,45),(19,21,94)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,9),(10,11,49),(21,23,103)); lvl=3; h,r-ind=1,1
      [4,3]((2,2,9),(10,11,50),(9,10,45),(21,23,103)); lvl=3; h,r-ind=1,1
        [3,3]((10,11,50),(11,12,54),(9,10,45)); lvl=4; h,r-ind=1,1
        [3,3]((21,23,103),(11,12,54),(9,10,45)); lvl=4; h,r-ind=1,1
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      [3,3]((2,2,9),(21,23,103),(11,12,54)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,9),(10,11,50),(11,12,54)); lvl=4; h,r-ind=1,1
    [3,3]((2,2,9),(12,13,60),(10,11,50)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((12,13,60),(2,2,9),(5,5,23)); lvl=2; h,r-ind=1,1
[4,3]((1,0,0),(4,5,24),(12,13,60),(5,5,23)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,14),(12,13,60),(8,9,42)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((4,5,24),(3,3,14),(8,9,42)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((7,7,33),(4,5,24),(3,3,14)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(7,7,33),(3,3,14)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(7,7,33),(4,5,24)); lvl=2; h,r-ind=3,9; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((5,5,23),(3,3,14),(12,13,60)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(5,5,23),(3,3,14)); lvl=2; h,r-ind=1,1
[4,3]((4,5,24),(4,5,21),(12,13,60),(5,6,25)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,26),(5,6,25),(4,5,21)); lvl=2; h,r-ind=1,1
  [4,3]((8,10,45),(5,6,26),(5,6,27),(4,5,21)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,27),(5,6,26),(14,17,75)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,22),(4,5,21),(5,6,26),(14,17,75)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((9,11,48),(5,6,26),(4,5,21)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,22),(9,11,48),(4,5,21)); lvl=4; h,r-ind=1,1
      [3,3]((14,17,75),(9,11,48),(5,6,26)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,22),(14,17,75),(9,11,48)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,22),(5,6,27),(14,17,75)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,22),(8,10,45),(5,6,27)); lvl=3; h,r-ind=1,1
  [4,3]((7,8,36),(6,7,32),(5,6,26),(5,6,27)); lvl=2; h,r-ind=1,1
    [4,3]((6,7,31),(5,6,26),(5,6,27),(17,20,90)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,6,26),(11,13,58),(5,6,27)); lvl=4; h,r-ind=1,1
      [3,3]((17,20,90),(11,13,58),(5,6,27)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,31),(17,20,90),(11,13,58)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,31),(5,6,26),(11,13,58)); lvl=4; h,r-ind=1,1
    [3,3]((6,7,32),(5,6,27),(17,20,90)); lvl=3; h,r-ind=1,1
    [4,3]((6,7,32),(7,8,36),(6,7,31),(17,20,90)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((12,14,63),(7,8,36),(6,7,31)); lvl=4; h,r-ind=1,1
      [3,3]((17,20,90),(12,14,63),(6,7,31)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,32),(17,20,90),(12,14,63)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,32),(12,14,63),(7,8,36)); lvl=4; h,r-ind=1,1
  [4,3]((4,5,24),(8,10,45),(6,7,32),(5,6,27)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,23),(19,23,105),(8,10,45),(5,6,27)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((9,11,50),(5,6,27),(19,23,105)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,23),(9,11,50),(19,23,105)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,45),(9,11,50),(5,6,27)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,23),(8,10,45),(9,11,50)); lvl=4; h,r-ind=1,1
    [4,3]((6,7,32),(19,23,105),(10,12,55),(5,6,27)); lvl=3; h,r-ind=1,1
      [3,3]((15,18,82),(10,12,55),(19,23,105)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,27),(15,18,82),(19,23,105)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,32),(15,18,82),(10,12,55)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,27),(6,7,32),(15,18,82)); lvl=4; h,r-ind=1,1
    [4,3]((5,6,28),(4,5,23),(19,23,105),(10,12,55)); lvl=3; h,r-ind=1,1
      [3,3]((14,17,78),(19,23,105),(4,5,23)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,28),(14,17,78),(4,5,23)); lvl=4; h,r-ind=1,1
      [3,3]((14,17,78),(10,12,55),(19,23,105)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,28),(14,17,78),(10,12,55)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,24),(5,6,28),(4,5,23)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,32),(5,6,28),(10,12,55)); lvl=3; h,r-ind=1,1
  [4,3]((7,8,36),(5,6,26),(17,19,85),(5,6,25)); lvl=2; h,r-ind=1,1
    [4,3]((7,8,35),(5,6,26),(6,7,31),(5,6,25)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,31),(5,6,26),(17,20,87)); lvl=4; h,r-ind=1,1
      [4,3]((6,7,30),(5,6,25),(5,6,26),(17,20,87)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,6,25),(11,13,56),(5,6,26)); lvl=5; h,r-ind=1,1
        [3,3]((17,20,87),(11,13,56),(5,6,26)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,30),(17,20,87),(11,13,56)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,30),(5,6,25),(11,13,56)); lvl=5; h,r-ind=1,1
      [4,3]((7,8,35),(6,7,30),(6,7,31),(17,20,87)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((6,7,30),(17,20,87),(12,14,61)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,31),(17,20,87),(12,14,61)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,35),(6,7,30),(12,14,61)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,31),(7,8,35),(12,14,61)); lvl=5; h,r-ind=1,1
    [4,3]((7,8,36),(7,8,35),(8,9,40),(6,7,31)); lvl=3; h,r-ind=1,1
      [3,3]((14,16,71),(7,8,35),(8,9,40)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,36),(14,16,71),(8,9,40)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,31),(14,16,71),(7,8,35)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,36),(6,7,31),(14,16,71)); lvl=4; h,r-ind=1,1
    [3,3]((7,8,36),(17,19,85),(8,9,40)); lvl=3; h,r-ind=1,1
  [5,3]((7,8,36),(6,7,32),(8,9,42),(12,13,60),(17,19,85)); lvl=2; h,r-ind=1,1
    [4,3]((7,8,37),(17,19,87),(15,17,77),(6,7,32)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc
      [3,3]((6,7,32),(8,9,41),(15,17,77)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,32),(8,9,41),(21,24,110)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,32),(7,8,37),(21,24,110)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,37),(8,9,41),(21,24,110)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,37),(17,19,87),(8,9,41)); lvl=4; h,r-ind=1,1
    [3,3]((7,8,36),(15,17,77),(6,7,32)); lvl=3; h,r-ind=1,1
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    [4,3]((17,19,87),(15,17,77),(9,10,45),(10,11,50)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc
      [3,3]((9,10,45),(8,9,41),(15,17,77)); lvl=4; h,r-ind=1,1
      [3,3]((27,30,136),(9,10,45),(8,9,41)); lvl=4; h,r-ind=1,1
      [3,3]((10,11,50),(27,30,136),(8,9,41)); lvl=4; h,r-ind=1,1
      [3,3]((17,19,87),(10,11,50),(8,9,41)); lvl=4; h,r-ind=1,1
      [3,3]((10,11,50),(27,30,136),(9,10,45)); lvl=4; h,r-ind=1,1
    [4,3]((7,8,36),(17,19,85),(15,17,77),(9,10,45)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((16,18,81),(17,19,85),(9,10,45)); lvl=4; h,r-ind=1,1
      [3,3]((15,17,77),(16,18,81),(9,10,45)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,36),(15,17,77),(16,18,81)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,36),(16,18,81),(17,19,85)); lvl=4; h,r-ind=1,1
    [4,3]((8,9,42),(7,8,37),(17,19,87),(10,11,51)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,37),(9,10,46),(17,19,87)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,37),(9,10,46),(24,27,125)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,42),(7,8,37),(24,27,125)); lvl=4; h,r-ind=1,1
      [4,3]((8,9,42),(10,11,51),(9,10,46),(24,27,125)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((17,19,88),(10,11,51),(9,10,46)); lvl=5; h,r-ind=1,1
        [3,3]((24,27,125),(17,19,88),(9,10,46)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,42),(24,27,125),(17,19,88)); lvl=5; h,r-ind=1,1
        [3,3]((8,9,42),(17,19,88),(10,11,51)); lvl=5; h,r-ind=1,1
    [4,3]((17,19,87),(10,11,50),(10,11,51),(12,13,60)); lvl=3; h,r-ind=1,1
      [4,3]((9,10,46),(10,11,51),(12,13,60),(11,12,55)); lvl=4; h,r-ind=1,1
        [3,3]((21,23,106),(12,13,60),(10,11,51)); lvl=5; h,r-ind=1,1
        [3,3]((9,10,46),(21,23,106),(10,11,51)); lvl=5; h,r-ind=1,1
        [3,3]((11,12,55),(21,23,106),(12,13,60)); lvl=5; h,r-ind=1,1
        [3,3]((9,10,46),(11,12,55),(21,23,106)); lvl=5; h,r-ind=1,1
      [3,3]((9,10,46),(10,11,50),(11,12,55)); lvl=4; h,r-ind=1,1
      [3,3]((17,19,87),(9,10,46),(10,11,50)); lvl=4; h,r-ind=1,1
  [3,3]((4,5,24),(6,7,32),(8,9,42)); lvl=2; h,r-ind=4,2; alert-h-inc; alert-r-inc; optimized-h
[6,3]((3,4,15),(5,6,24),(4,5,19),(4,5,21),(3,4,16),(5,6,25)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,20),(4,5,19),(5,6,24)); lvl=2; h,r-ind=1,1
  [3,3]((5,6,25),(4,5,20),(5,6,24)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,21),(5,6,25),(4,5,20)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,16),(4,5,21),(4,5,20)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,15),(4,5,20),(4,5,19)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,15),(3,4,16),(4,5,20)); lvl=2; h,r-ind=1,1
[4,3]((4,5,24),(2,3,12),(4,5,21),(3,4,16)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,17),(3,4,16),(2,3,12)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,18),(3,4,17),(2,3,12)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,17),(4,5,21),(3,4,16)); lvl=2; h,r-ind=1,1
  [3,3]((8,10,45),(3,4,17),(4,5,21)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((4,5,24),(3,4,18),(8,10,45),(3,4,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,18),(10,13,58),(3,4,17)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,23),(10,13,58),(3,4,17)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,23),(8,10,45),(3,4,17)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,23),(4,5,24),(3,4,18),(10,13,58)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,18),(4,5,24),(7,9,41)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,23),(4,5,24),(7,9,41)); lvl=4; h,r-ind=1,1
      [3,3]((10,13,58),(3,4,18),(7,9,41)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,23),(10,13,58),(7,9,41)); lvl=4; h,r-ind=1,1
[4,3]((0,1,0),(3,4,15),(2,3,12),(3,4,16)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,11),(3,4,15),(3,4,16)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,12),(2,3,11),(3,4,16)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,11),(3,5,15),(3,4,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((0,1,0),(1,2,6),(2,3,11),(3,5,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,6),(4,7,22),(2,3,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(4,7,22),(2,3,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,5),(3,5,15),(2,3,11)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,5),(1,2,6),(4,7,22)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,11),(1,2,5),(4,7,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,11),(1,2,6),(4,7,22)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,11),(1,2,6)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,11),(1,2,5)); lvl=4; h,r-ind=1,1
  [3,3]((2,3,12),(1,2,6),(2,3,11)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,1,4),(5,5,23)); lvl=1; h,r-ind=3,3; optimized-h
[5,3]((5,6,24),(4,5,19),(1,1,4),(4,5,12),(2,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,3),(4,5,12),(8,10,31),(5,6,19)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,19),(10,12,37),(8,10,31),(4,5,15)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((8,10,31),(9,11,34),(4,5,15)); lvl=4; h,r-ind=1,1
      [3,3]((10,12,37),(9,11,34),(4,5,15)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,19),(10,12,37),(9,11,34)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,19),(8,10,31),(9,11,34)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,3),(10,12,37),(4,5,14),(4,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,14),(4,5,15),(5,6,18)); lvl=4; h,r-ind=1,1
      [3,3]((10,12,37),(4,5,15),(5,6,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(10,12,37),(5,6,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,14),(5,6,18)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,3),(4,5,12),(4,5,14)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,3),(5,6,19),(10,12,37)); lvl=3; h,r-ind=1,1
  [4,3]((4,5,19),(5,6,23),(8,10,31),(5,6,19)); lvl=2; h,r-ind=1,1
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      [4,3]((4,5,16),(4,5,17),(5,6,19),(5,6,21)); lvl=3; h,r-ind=1,1
        [4,3]((13,16,53),(4,5,17),(5,6,20),(5,6,21)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((9,11,37),(5,6,20),(5,6,21)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,17),(9,11,37),(5,6,21)); lvl=5; h,r-ind=1,1
          [3,3]((13,16,53),(9,11,37),(5,6,20)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,17),(13,16,53),(9,11,37)); lvl=5; h,r-ind=1,1
        [4,3]((4,5,16),(13,16,53),(5,6,19),(5,6,20)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((5,6,19),(5,6,20),(9,11,36)); lvl=5; h,r-ind=1,1
          [3,3]((13,16,53),(5,6,20),(9,11,36)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,16),(13,16,53),(9,11,36)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,16),(5,6,19),(9,11,36)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,16),(13,16,53),(4,5,17)); lvl=4; h,r-ind=1,1
      [4,3]((4,5,19),(4,5,17),(5,6,23),(5,6,21)); lvl=3; h,r-ind=2,1; alert-h-inc
        [4,3]((4,5,18),(4,5,17),(5,6,22),(5,6,21)); lvl=4; h,r-ind=1,1
          [3,3]((9,11,39),(5,6,21),(5,6,22)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,18),(9,11,39),(5,6,22)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,17),(9,11,39),(5,6,21)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,18),(4,5,17),(9,11,39)); lvl=5; h,r-ind=1,1
        [4,3]((4,5,18),(4,5,19),(5,6,23),(5,6,22)); lvl=4; h,r-ind=1,1
          [3,3]((9,11,41),(5,6,23),(4,5,19)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,18),(9,11,41),(4,5,19)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,22),(4,5,18),(9,11,41)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,22),(9,11,41),(5,6,23)); lvl=5; h,r-ind=1,1
      [3,3]((8,10,31),(4,5,16),(5,6,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,4),(1,1,3),(5,6,23),(5,6,19)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,3),(9,10,35),(5,6,19),(5,6,21)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [3,3]((7,8,27),(5,6,21),(7,8,28)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((9,10,35),(1,1,3),(7,8,27),(7,8,28)); lvl=4; h,r-ind=1,2
          [3,3]((1,1,3),(7,8,27),(8,9,31)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,28),(7,8,27),(8,9,31)); lvl=5; h,r-ind=1,1
          [3,3]((9,10,35),(7,8,28),(8,9,31)); lvl=5; h,r-ind=1,1
          [3,3]((9,10,35),(1,1,3),(8,9,31)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,27),(5,6,20),(5,6,21)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,1,3),(5,6,19),(7,8,27),(5,6,20)); lvl=4; h,r-ind=1,2
          [3,3]((5,6,19),(6,7,23),(5,6,20)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,27),(6,7,23),(5,6,20)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(5,6,19),(6,7,23)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,27),(1,1,3),(6,7,23)); lvl=5; h,r-ind=1,1
      [4,3]((1,1,4),(9,10,35),(5,6,23),(5,6,21)); lvl=3; h,r-ind=2,4; alert-h-inc; alert-r-inc
        [4,3]((1,1,4),(7,8,29),(5,6,22),(5,6,23)); lvl=4; h,r-ind=1,2
          [3,3]((6,7,26),(7,8,29),(5,6,22)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,23),(6,7,26),(5,6,22)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(5,6,23),(6,7,26)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(6,7,26),(7,8,29)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,21),(7,8,29),(5,6,22)); lvl=4; h,r-ind=2,2; optimized-h
        [3,3]((7,8,28),(5,6,21),(7,8,29)); lvl=4; h,r-ind=2,2; optimized-h
        [4,3]((1,1,4),(9,10,35),(7,8,28),(7,8,29)); lvl=4; h,r-ind=1,2
          [3,3]((8,9,32),(7,8,28),(9,10,35)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(8,9,32),(9,10,35)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,29),(8,9,32),(7,8,28)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,4),(7,8,29),(8,9,32)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,4),(1,1,3),(9,10,35)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,24),(1,1,4),(5,6,23)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,19),(5,6,24),(5,6,23)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(2,2,5),(4,5,12)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(3,4,15),(4,5,19),(4,5,12)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,14),(3,4,15),(4,5,19)); lvl=2; h,r-ind=1,1
    [4,3]((8,10,31),(3,4,12),(3,4,14),(4,5,19)); lvl=2; h,r-ind=1,1
      [4,3]((4,5,19),(4,5,17),(3,4,14),(3,4,13)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,14),(3,4,13),(10,13,45)); lvl=4; h,r-ind=1,1
        [4,3]((4,5,18),(4,5,17),(3,4,13),(10,13,45)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((7,9,31),(4,5,17),(3,4,13)); lvl=5; h,r-ind=1,1
          [3,3]((10,13,45),(7,9,31),(3,4,13)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,18),(10,13,45),(7,9,31)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,18),(7,9,31),(4,5,17)); lvl=5; h,r-ind=1,1
        [4,3]((4,5,19),(4,5,18),(3,4,14),(10,13,45)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,5,18),(10,13,45),(7,9,32)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,14),(10,13,45),(7,9,32)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,19),(3,4,14),(7,9,32)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,19),(4,5,18),(7,9,32)); lvl=5; h,r-ind=1,1
      [4,3]((4,5,16),(4,5,17),(3,4,12),(3,4,13)); lvl=3; h,r-ind=1,1
        [3,3]((7,9,29),(3,4,13),(3,4,12)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,16),(7,9,29),(3,4,12)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,17),(7,9,29),(3,4,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,16),(4,5,17),(7,9,29)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,16),(8,10,31),(3,4,12)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,14),(2,3,9),(3,5,15),(3,4,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,9),(2,3,10),(3,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(7,10,33),(2,3,10)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,14),(3,4,15),(7,10,33),(2,3,10)); lvl=3; h,r-ind=1,2; alert-r-inc
```

```
      [3,3]((2,3,10),(3,4,15),(5,7,24)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,14),(3,4,15),(5,7,24)); lvl=4; h,r-ind=1,1
      [3,3]((7,10,33),(2,3,10),(5,7,24)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,14),(7,10,33),(5,7,24)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,14),(2,3,9),(7,10,33)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,8),(3,4,12),(3,4,14),(2,3,9)); lvl=2; h,r-ind=1,1
    [4,3]((7,10,30),(2,3,9),(3,4,13),(3,4,14)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,13),(5,7,22),(3,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(5,7,22),(3,4,14)); lvl=4; h,r-ind=1,1
      [3,3]((7,10,30),(2,3,9),(5,7,22)); lvl=4; h,r-ind=1,1
      [3,3]((7,10,30),(3,4,13),(5,7,22)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,8),(7,10,30),(3,4,12),(3,4,13)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,12),(5,7,21),(3,4,13)); lvl=4; h,r-ind=1,1
      [3,3]((7,10,30),(5,7,21),(3,4,13)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,8),(3,4,12),(5,7,21)); lvl=4; h,r-ind=1,1
      [3,3]((7,10,30),(2,3,8),(5,7,21)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,8),(7,10,30),(2,3,9)); lvl=3; h,r-ind=1,1
  [5,3]((4,5,12),(2,3,6),(8,10,31),(2,3,8),(3,4,12)); lvl=2; h,r-ind=1,1
    [4,3]((6,8,23),(6,8,21),(2,3,7),(2,3,8)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc
      [3,3]((3,4,11),(2,3,7),(6,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,11),(7,10,26),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,8),(7,10,26),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,11),(2,3,8),(7,10,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,11),(6,8,23),(2,3,8)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,12),(6,8,23),(2,3,8)); lvl=3; h,r-ind=1,1
    [4,3]((8,10,31),(4,5,15),(3,4,12),(6,8,23)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((7,9,27),(3,4,12),(6,8,23)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,15),(7,9,27),(6,8,23)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,31),(7,9,27),(3,4,12)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,15),(8,10,31),(7,9,27)); lvl=4; h,r-ind=1,1
    [4,3]((4,5,14),(4,5,15),(6,8,23),(6,8,21)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc
      [3,3]((3,4,11),(4,5,15),(6,8,23)); lvl=4; h,r-ind=1,1
      [3,3]((11,14,40),(3,4,11),(4,5,15)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,14),(11,14,40),(4,5,15)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,14),(11,14,40),(3,4,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,14),(6,8,21),(3,4,11)); lvl=4; h,r-ind=1,1
    [4,3]((4,5,12),(3,4,9),(4,5,14),(6,8,21)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,14),(3,4,10),(6,8,21)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,13),(4,5,14),(3,4,10)); lvl=4; h,r-ind=1,1
      [4,3]((4,5,12),(4,5,13),(3,4,9),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,22),(3,4,10),(3,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,12),(7,9,22),(3,4,9)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,13),(7,9,22),(3,4,10)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,12),(4,5,13),(7,9,22)); lvl=5; h,r-ind=1,1
    [4,3]((3,4,9),(2,3,6),(6,8,21),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(7,10,23),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(7,10,23),(2,3,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,10),(6,8,21),(2,3,7)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,9),(3,4,10),(2,3,6),(7,10,23)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,16),(7,10,23),(3,4,10)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,9),(5,7,16),(3,4,10)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,6),(3,4,9),(5,7,16)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,6),(5,7,16),(7,10,23)); lvl=5; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,6),(2,3,8)); lvl=2; h,r-ind=4,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((0,1,0),(2,3,8),(2,3,9),(3,5,15)); lvl=2; h,r-ind=1,1
    [4,3]((6,10,27),(3,5,13),(2,3,8),(2,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,22),(3,5,13),(2,3,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,9),(5,8,22),(2,3,8)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,27),(2,3,9),(5,8,22)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,27),(5,8,22),(3,5,13)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,5),(3,5,15),(6,10,27),(2,3,9)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((3,5,14),(3,5,15),(2,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((6,10,27),(3,5,14),(2,3,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(6,10,27),(3,5,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,5),(3,5,14),(3,5,15)); lvl=4; h,r-ind=1,1
    [4,3]((1,2,4),(1,2,5),(6,10,27),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,18),(1,2,5),(6,10,27)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,13),(4,7,18),(6,10,27)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,13),(4,7,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(4,7,18),(1,2,5)); lvl=4; h,r-ind=1,1
    [3,3]((1,2,4),(0,1,0),(1,2,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,13),(2,3,8)); lvl=3; h,r-ind=1,1
[4,3]((1,0,0),(0,1,0),(4,5,12),(2,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(4,5,12),(2,3,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,1,2),(2,3,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,2,3)); lvl=2; h,r-ind=3,9; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,2,5),(1,1,2),(4,5,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,5),(1,1,2)); lvl=2; h,r-ind=1,1
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  [3,3]((1,0,0),(1,1,4),(2,2,5)); lvl=1; h,r-ind=3,3; optimized-h
```

24.47 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,7,24)); lvl=0; h,r-ind=24,144
  [6,3]((1,2,6),(3,5,13),(2,3,9),(7,11,35),(1,2,5),(3,5,16)); lvl=1; h,r-ind=1,1
    [4,3]((5,8,25),(8,13,40),(6,10,31),(3,5,16)); lvl=2; h,r-ind=1,1
      [3,3]((11,18,56),(6,10,31),(8,13,40)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,25),(11,18,56),(8,13,40)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,16),(11,18,56),(6,10,31)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,25),(3,5,16),(11,18,56)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(6,10,31),(3,5,16)); lvl=2; h,r-ind=1,1
    [3,3]((7,11,35),(5,8,25),(3,5,16)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(7,11,35),(5,8,25)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,9),(5,8,24),(5,8,25),(8,13,40)); lvl=2; h,r-ind=1,1
      [3,3]((10,16,49),(8,13,40),(5,8,24)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(10,16,49),(5,8,24)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,25),(10,16,49),(8,13,40)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(5,8,25),(10,16,49)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,14),(6,10,29),(2,3,9),(5,8,24)); lvl=2; h,r-ind=1,1
      [3,3]((6,10,29),(5,8,24),(8,13,38)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(5,8,24),(8,13,38)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,14),(2,3,9),(8,13,38)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,14),(6,10,29),(8,13,38)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,13),(3,5,14),(2,3,9)); lvl=2; h,r-ind=1,1
    [6,3]((6,10,29),(5,8,24),(1,2,6),(4,7,20),(8,13,40),(6,10,31)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,15),(8,13,40),(6,10,31)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,15),(1,2,6),(6,10,31)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,20),(3,5,15),(1,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,29),(4,7,20),(3,5,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,24),(3,5,15),(8,13,40)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,24),(6,10,29),(3,5,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,6),(1,2,5),(4,7,20)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,14),(6,10,29),(1,2,5),(4,7,20)); lvl=2; h,r-ind=1,1
      [3,3]((6,10,29),(4,7,20),(7,12,34)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,5),(4,7,20),(7,12,34)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,14),(1,2,5),(7,12,34)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,14),(6,10,29),(7,12,34)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,13),(3,5,14),(1,2,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,3),(2,3,9),(7,11,35),(2,3,10)); lvl=1; h,r-ind=1,2
    [3,3]((4,6,19),(2,3,9),(7,11,35)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,19),(2,3,10),(7,11,35)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(4,6,19),(2,3,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(4,6,19),(2,3,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,3),(2,3,10)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(3,5,9),(3,5,13),(1,2,5)); lvl=1; h,r-ind=2,2
    [3,3]((1,2,4),(3,5,11),(3,5,13)); lvl=2; h,r-ind=2,2; optimized-h
    [3,3]((1,2,5),(1,2,4),(3,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,5),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(3,5,9),(1,2,4),(3,5,11)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,4),(5,9,17),(3,5,10),(3,5,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,9,17),(4,7,14),(3,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,11),(4,7,14),(3,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(5,9,17),(4,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,11),(1,2,4),(4,7,14)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(1,2,4),(5,9,17)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(5,9,17),(3,5,9),(3,5,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,9),(4,7,13),(3,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,17),(4,7,13),(3,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(3,5,9),(4,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,17),(1,2,3),(4,7,13)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
  [5,3]((1,1,3),(1,1,2),(3,5,9),(3,5,13),(2,3,9)); lvl=1; h,r-ind=1,2
    [4,3]((1,1,3),(4,5,12),(2,3,8),(2,3,7)); lvl=2; h,r-ind=1,2
      [3,3]((2,3,8),(3,4,10),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,12),(3,4,10),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(4,5,12),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(2,3,8),(3,4,10)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,13),(3,5,11),(2,3,8),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,7),(2,3,8),(7,11,27)); lvl=3; h,r-ind=1,1
      [4,3]((3,5,13),(3,5,12),(2,3,8),(7,11,27)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,12),(5,8,20),(7,11,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,8),(5,8,20),(7,11,27)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,13),(2,3,8),(5,8,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,13),(3,5,12),(5,8,20)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,11),(3,5,12),(2,3,7),(7,11,27)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,12),(7,11,27),(5,8,19)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((2,3,7),(7,11,27),(5,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,11),(3,5,12),(5,8,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,7),(3,5,11),(5,8,19)); lvl=4; h,r-ind=1,1
  [3,3]((2,3,9),(3,5,13),(2,3,8)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,6),(1,1,2),(4,5,12),(2,3,7)); lvl=2; h,r-ind=1,2
    [3,3]((3,4,9),(4,5,12),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(3,4,9),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,9),(2,3,7),(4,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(3,4,9),(2,3,7)); lvl=3; h,r-ind=1,1
  [4,3]((3,5,9),(2,3,6),(3,5,11),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(7,11,23),(2,3,7)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,10),(3,5,11),(7,11,23),(2,3,7)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,7),(3,5,11),(5,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,10),(3,5,11),(5,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((7,11,23),(2,3,7),(5,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,10),(7,11,23),(5,8,17)); lvl=4; h,r-ind=1,1
    [4,3]((3,5,9),(3,5,10),(2,3,6),(7,11,23)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((5,8,16),(3,5,10),(7,11,23)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(5,8,16),(7,11,23)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,9),(5,8,16),(3,5,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(3,5,9),(5,8,16)); lvl=4; h,r-ind=1,1
  [3,3]((3,5,9),(2,3,6),(1,1,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,3),(1,1,2),(4,5,12)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,3),(2,3,9),(2,3,8)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=1; h,r-ind=1,1
[4,3]((0,1,0),(1,0,0),(1,1,2),(3,5,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(1,0,0),(2,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,3),(4,5,7),(1,0,0),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,7),(2,2,3),(5,6,8),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(8,9,12),(7,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,8),(8,9,12),(7,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,7),(5,6,8),(7,8,11)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,7),(2,2,3),(7,8,11)); lvl=4; h,r-ind=1,1
    [4,3]((1,1,1),(3,4,5),(5,6,8),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(3,4,5),(6,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(6,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,12),(1,1,1),(6,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,12),(5,6,8),(6,7,9)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(1,0,0),(2,2,3),(8,9,12)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,12),(2,2,3),(3,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(8,9,12),(3,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,5),(4,5,7),(5,6,8)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,0,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,6),(4,5,7),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,9),(2,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(5,6,9),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,7),(5,6,9),(2,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(4,5,7),(5,6,9)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,3),(3,4,6),(3,5,9),(1,1,2)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((2,3,5),(3,4,6),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,9),(2,3,5),(1,1,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,9),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(3,4,6)); lvl=3; h,r-ind=1,1
  [5,3]((2,3,3),(1,2,2),(1,2,3),(3,4,6),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,4),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(2,3,4),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(4,5,7),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,7),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,1
[4,3]((4,7,24),(1,2,6),(3,5,17),(3,5,16)); lvl=1; h,r-ind=1,1
  [3,3]((4,7,23),(3,5,17),(3,5,16)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,6),(4,7,23),(3,5,16)); lvl=2; h,r-ind=1,1
  [3,3]((4,7,24),(4,7,23),(3,5,17)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,6),(4,7,24),(4,7,23)); lvl=2; h,r-ind=1,1
[4,3]((7,11,35),(2,3,10),(3,5,17),(3,5,16)); lvl=1; h,r-ind=1,2
  [3,3]((2,3,10),(3,5,17),(5,8,26)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,16),(3,5,17),(5,8,26)); lvl=2; h,r-ind=1,1
  [3,3]((7,11,35),(3,5,16),(5,8,26)); lvl=2; h,r-ind=1,1
  [3,3]((7,11,35),(2,3,10),(5,8,26)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(2,3,10),(3,5,17)); lvl=1; h,r-ind=1,1
[3,3]((4,7,24),(1,0,0),(3,5,17)); lvl=1; h,r-ind=1,1
[3,3]((0,1,0),(1,2,6),(1,2,5)); lvl=1; h,r-ind=1,1
```

24.48 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,9,24)); lvl=0; h,r-ind=24,48
  [3,3]((1,0,0),(2,3,7),(1,2,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,4),(2,3,7),(1,2,5)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,4),(2,5,12),(1,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,10),(1,2,4),(1,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,6),(2,5,12),(2,5,10),(1,2,5)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,12),(2,5,11),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(2,5,11),(1,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(2,5,12),(2,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,10),(1,3,6),(2,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,6),(2,5,10)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,5,10),(1,2,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((4,9,24),(2,5,12),(1,2,5)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(5,9,24),(1,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,9,24),(5,9,24),(1,2,5)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,2,4),(1,2,3),(1,0,0),(2,3,7)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,2),(1,0,0),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,3,7),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(1,1,2),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
```

24.49 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,11,24)); lvl=0; h,r-ind=24,144
  [4,3]((4,11,24),(5,13,28),(10,25,54),(8,20,43)); lvl=1; h,r-ind=1,1
    [4,3]((7,18,39),(20,51,110),(10,25,54),(8,20,43)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((10,25,54),(15,38,82),(8,20,43)); lvl=3; h,r-ind=1,1
      [3,3]((20,51,110),(15,38,82),(8,20,43)); lvl=3; h,r-ind=1,1
      [3,3]((7,18,39),(10,25,54),(15,38,82)); lvl=3; h,r-ind=1,1
      [3,3]((20,51,110),(7,18,39),(15,38,82)); lvl=3; h,r-ind=1,1
    [3,3]((5,13,28),(20,51,110),(8,20,43)); lvl=2; h,r-ind=1,1
    [4,3]((4,11,24),(7,18,39),(5,13,28),(20,51,110)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,18,39),(12,31,67),(20,51,110)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,28),(12,31,67),(20,51,110)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,24),(5,13,28),(12,31,67)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,24),(7,18,39),(12,31,67)); lvl=3; h,r-ind=1,1
  [5,3]((1,2,4),(1,1,2),(4,7,15),(10,25,54),(8,20,43)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,15),(4,7,15),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(3,7,15),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,15),(4,7,15),(14,32,69)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,7,15),(10,25,54),(14,32,69)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((8,20,43),(3,7,15),(10,25,54)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(8,20,43),(3,7,15)); lvl=2; h,r-ind=1,1
  [5,3]((1,2,4),(2,2,3),(2,5,6),(2,5,7),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,7),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(1,1,2),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(1,2,3),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(2,5,6),(1,2,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,3),(4,7,9),(1,2,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(1,1,2),(4,7,15)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,2,3),(2,5,6),(1,0,0)); lvl=1; h,r-ind=3,3
    [4,3]((1,1,1),(2,3,3),(2,2,3),(4,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,6),(2,3,4),(4,7,9)); lvl=3; h,r-ind=1,1
      [4,3]((4,6,7),(7,10,12),(3,5,6),(2,3,4)); lvl=3; h,r-ind=1,1
        [3,3]((6,9,11),(7,10,12),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,6),(6,9,11),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,7),(6,9,11),(7,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,7),(3,5,6),(6,9,11)); lvl=4; h,r-ind=1,1
      [4,3]((2,2,3),(1,1,1),(7,10,12),(2,3,4)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,4,5),(1,1,1),(7,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,5),(7,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,7),(3,5,6),(2,3,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(4,6,7),(7,10,12),(2,3,3)); lvl=3; h,r-ind=1,1
        [3,3]((5,7,8),(7,10,12),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(5,7,8),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(2,3,3),(5,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(5,7,8),(7,10,12)); lvl=4; h,r-ind=1,1
    [4,3]((2,3,3),(2,5,6),(1,3,3),(4,7,9)); lvl=2; h,r-ind=3,1
```

```
      [4,3]((1,2,2),(2,4,5),(1,3,3),(2,5,6)); lvl=3; h,r-ind=1,1
        [3,3]((2,4,5),(2,5,6),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(2,5,6),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,3),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(3,7,8)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,9),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,3,3)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [4,3]((4,11,24),(1,0,0),(4,7,15),(10,25,54)); lvl=1; h,r-ind=3,3
    [3,3]((3,6,13),(1,0,0),(4,7,15)); lvl=2; h,r-ind=1,1
    [4,3]((14,32,69),(8,18,39),(3,6,13),(4,7,15)); lvl=2; h,r-ind=1,1
      [4,3]((14,31,67),(23,50,108),(3,6,13),(8,18,39)); lvl=3; h,r-ind=1,1
        [3,3]((23,50,108),(3,6,13),(17,37,80)); lvl=4; h,r-ind=1,1
        [3,3]((8,18,39),(3,6,13),(17,37,80)); lvl=4; h,r-ind=1,1
        [3,3]((14,31,67),(23,50,108),(17,37,80)); lvl=4; h,r-ind=1,1
        [3,3]((8,18,39),(14,31,67),(17,37,80)); lvl=4; h,r-ind=1,1
      [3,3]((11,25,54),(14,31,67),(8,18,39)); lvl=3; h,r-ind=1,1
      [4,3]((6,13,28),(23,50,108),(4,7,15),(3,6,13)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((9,19,41),(23,50,108),(3,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,15),(9,19,41),(3,6,13)); lvl=4; h,r-ind=1,1
        [3,3]((6,13,28),(4,7,15),(9,19,41)); lvl=4; h,r-ind=1,1
        [3,3]((6,13,28),(9,19,41),(23,50,108)); lvl=4; h,r-ind=1,1
      [4,3]((11,25,54),(14,31,67),(6,13,28),(23,50,108)); lvl=3; h,r-ind=1,1
        [3,3]((14,31,67),(23,50,108),(20,44,95)); lvl=4; h,r-ind=1,1
        [3,3]((6,13,28),(23,50,108),(20,44,95)); lvl=4; h,r-ind=1,1
        [3,3]((11,25,54),(14,31,67),(20,44,95)); lvl=4; h,r-ind=1,1
        [3,3]((6,13,28),(11,25,54),(20,44,95)); lvl=4; h,r-ind=1,1
      [3,3]((14,32,69),(11,25,54),(6,13,28)); lvl=3; h,r-ind=1,1
    [4,3]((10,25,54),(7,18,39),(14,32,69),(8,18,39)); lvl=2; h,r-ind=3,1
      [4,3]((8,19,41),(10,25,54),(7,18,39),(5,12,26)); lvl=3; h,r-ind=1,1
        [3,3]((15,37,80),(7,18,39),(10,25,54)); lvl=4; h,r-ind=1,1
        [3,3]((8,19,41),(15,37,80),(10,25,54)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,26),(8,19,41),(15,37,80)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,26),(15,37,80),(7,18,39)); lvl=4; h,r-ind=1,1
      [3,3]((8,19,41),(11,25,54),(5,12,26)); lvl=3; h,r-ind=1,1
      [3,3]((11,25,54),(8,18,39),(5,12,26)); lvl=3; h,r-ind=1,1
      [3,3]((8,19,41),(14,32,69),(11,25,54)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,24),(7,18,39),(8,18,39)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((4,11,24),(8,18,39),(3,6,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,24),(3,6,13),(1,0,0)); lvl=2; h,r-ind=1,1
  [4,3]((1,3,6),(1,2,4),(5,13,28),(8,20,43)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,4),(10,25,53),(6,15,32)); lvl=2; h,r-ind=1,1
    [4,3]((5,13,28),(3,8,17),(10,25,53),(6,15,32)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,17),(10,25,53),(9,23,49)); lvl=3; h,r-ind=1,1
      [3,3]((6,15,32),(10,25,53),(9,23,49)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,28),(6,15,32),(9,23,49)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,28),(3,8,17),(9,23,49)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(8,20,43),(6,15,32)); lvl=2; h,r-ind=1,1
    [3,3]((5,13,28),(8,20,43),(6,15,32)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,6),(3,8,17),(1,2,4),(10,25,53)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,17),(10,25,53),(4,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(10,25,53),(4,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,6),(3,8,17),(4,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(1,3,6),(4,10,21)); lvl=3; h,r-ind=1,1
  [3,3]((4,11,24),(1,3,6),(5,13,28)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,3,6),(1,3,4),(1,2,4),(2,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,8),(1,3,4),(2,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,8),(2,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,5),(2,5,8),(4,10,17),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((4,10,17),(3,8,13),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,13),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(4,10,17),(3,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,5),(3,8,13)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,4),(1,3,6),(1,3,5),(4,10,17)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,9),(1,3,5),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(1,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,17),(2,5,9),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(4,10,17),(2,5,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(2,5,8),(4,10,17)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,3,4),(2,5,6),(2,5,7)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,3),(2,5,6),(2,5,7),(4,11,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,6),(3,8,10),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,14),(3,8,10),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,6),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,14),(1,3,3),(3,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,7),(4,11,14)); lvl=2; h,r-ind=1,1
```

```
    [4,3]((0,1,0),(1,3,4),(1,3,3),(4,11,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,6,7),(1,3,4),(4,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,6,7),(4,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,6,7),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(0,1,0),(2,6,7)); lvl=3; h,r-ind=1,1
  [3,3]((1,3,6),(0,1,0),(1,3,4)); lvl=1; h,r-ind=2,2; optimized-h
```

24.50 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,13,24)); lvl=0; h,r-ind=24,144
  [3,3]((1,0,0),(4,7,12),(2,5,9)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,3,3),(3,9,16),(4,7,12),(2,5,9)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,7),(3,7,12),(9,20,34),(2,5,9)); lvl=2; h,r-ind=1,1
      [3,3]((9,20,34),(5,11,19),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(5,11,19),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(2,5,9),(5,11,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(9,20,34),(5,11,19)); lvl=3; h,r-ind=1,1
    [4,3]((3,9,16),(1,3,5),(3,7,12),(2,5,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,14),(1,3,5),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,14),(2,5,9),(3,7,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,16),(3,8,14),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,16),(3,8,14),(1,3,5)); lvl=3; h,r-ind=1,1
    [5,3]((2,5,8),(1,3,5),(4,9,15),(3,7,12),(9,20,34)); lvl=2; h,r-ind=1,1
      [4,3]((4,9,15),(9,21,35),(7,16,27),(12,28,47)); lvl=3; h,r-ind=1,1
        [3,3]((12,28,47),(9,21,35),(16,37,62)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,15),(9,21,35),(16,37,62)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,27),(4,9,15),(16,37,62)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,27),(12,28,47),(16,37,62)); lvl=4; h,r-ind=1,1
      [4,3]((3,7,12),(8,19,32),(7,16,27),(12,28,47)); lvl=3; h,r-ind=1,1
        [3,3]((15,35,59),(12,28,47),(8,19,32)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(15,35,59),(8,19,32)); lvl=4; h,r-ind=1,1
        [3,3]((7,16,27),(15,35,59),(12,28,47)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(7,16,27),(15,35,59)); lvl=4; h,r-ind=1,1
      [3,3]((9,20,34),(3,7,12),(7,16,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,5),(3,7,12),(8,19,32)); lvl=3; h,r-ind=1,1
      [5,3]((2,5,8),(1,3,5),(8,19,32),(9,21,35),(12,28,47)); lvl=3; h,r-ind=1,1
        [3,3]((12,28,47),(5,12,20),(8,19,32)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,5),(5,12,20),(8,19,32)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(1,3,5),(5,12,20)); lvl=4; h,r-ind=1,1
        [3,3]((9,21,35),(12,28,47),(5,12,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,8),(9,21,35),(5,12,20)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,15),(9,20,34),(7,16,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(4,9,15),(9,21,35)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,7),(1,2,3),(4,9,15),(9,20,34)); lvl=2; h,r-ind=1,1
      [3,3]((6,13,22),(1,2,3),(4,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((9,20,34),(6,13,22),(4,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(9,20,34),(6,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,7),(6,13,22),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,12),(2,4,7),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,8),(4,9,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(2,5,8),(1,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(1,2,3),(2,6,9),(2,5,8)); lvl=2; h,r-ind=1,1
      [3,3]((4,10,15),(2,5,8),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(4,10,15),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,4),(4,10,15),(2,6,9),(2,5,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,8,12),(4,10,15),(2,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,9),(3,8,12),(2,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,6,9),(3,8,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(3,8,12),(4,10,15)); lvl=4; h,r-ind=1,1
  [4,3]((0,1,0),(2,7,12),(1,3,3),(3,9,16)); lvl=1; h,r-ind=1,1
    [4,3]((0,1,0),(1,4,6),(1,3,5),(2,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,4,6),(1,4,5),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,9),(1,4,5),(1,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,6,9),(1,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,6),(1,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,6,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,7,12),(1,4,6),(1,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,12),(3,9,16),(1,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,6,11),(2,5,9)); lvl=1; h,r-ind=1,1
  [3,3]((3,9,16),(2,6,11),(2,5,9)); lvl=1; h,r-ind=1,1
  [4,3]((4,13,24),(2,7,12),(3,9,16),(2,6,11)); lvl=1; h,r-ind=1,1
    [3,3]((6,19,34),(3,9,16),(2,7,12)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,10,18),(6,19,34),(2,7,12)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((6,19,34),(2,6,11),(3,9,16)); lvl=2; h,r-ind=1,1
    [4,3]((4,13,24),(3,10,18),(6,19,34),(2,6,11)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,16,29),(6,19,34),(3,10,18)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((4,13,24),(5,16,29),(3,10,18)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,29),(2,6,11),(6,19,34)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,24),(5,16,29),(2,6,11)); lvl=3; h,r-ind=1,1
  [3,3]((4,13,24),(1,0,0),(2,6,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(1,0,0),(4,7,12)); lvl=1; h,r-ind=15,15; optimized-h
  [3,3]((0,1,0),(1,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
```

24.51 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,15,24)); lvl=0; h,r-ind=24,48
  [4,3]((4,13,20),(1,2,3),(3,9,14),(2,6,9)); lvl=1; h,r-ind=1,1
    [3,3]((5,15,23),(1,2,3),(3,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((4,13,20),(5,15,23),(3,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(5,15,23),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,13,20),(2,6,9),(5,15,23)); lvl=2; h,r-ind=1,1
  [4,3]((4,15,24),(5,15,24),(4,13,20),(3,9,14)); lvl=1; h,r-ind=2,1
    [3,3]((6,19,30),(4,12,19),(3,9,14)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,11),(4,13,20),(6,19,30),(3,9,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,9,14),(5,16,25),(4,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,11),(5,16,25),(4,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((6,19,30),(2,7,11),(5,16,25)); lvl=3; h,r-ind=1,1
      [3,3]((6,19,30),(3,9,14),(5,16,25)); lvl=3; h,r-ind=1,1
    [4,3]((3,10,16),(6,19,30),(4,12,19),(5,15,24)); lvl=2; h,r-ind=1,1
      [3,3]((7,22,35),(6,19,30),(4,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,15,24),(7,22,35),(4,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,16),(5,15,24),(7,22,35)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,16),(7,22,35),(6,19,30)); lvl=3; h,r-ind=1,1
    [3,3]((2,7,11),(3,10,16),(6,19,30)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,24),(2,7,11),(3,10,16)); lvl=2; h,r-ind=1,1
  [5,3]((2,3,4),(2,5,6),(1,3,4),(1,2,3),(2,6,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,7),(1,3,4),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(1,2,3),(2,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((5,11,15),(6,14,19),(2,5,7),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(6,14,19),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,15),(6,14,19),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,15),(7,16,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(7,16,22)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,4),(5,11,15),(3,6,8),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((4,8,11),(3,6,8),(5,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,8,11),(5,11,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(1,2,3),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(4,8,11),(3,6,8)); lvl=3; h,r-ind=1,1
    [4,3]((6,14,19),(2,5,7),(5,12,16),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((7,17,23),(1,3,4),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,19),(7,17,23),(2,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,16),(7,17,23),(1,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,19),(5,12,16),(7,17,23)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,6),(3,7,9),(5,12,16),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,9),(5,12,16),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(5,12,16),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,7,9),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,6),(4,10,13)); lvl=3; h,r-ind=1,1
    [6,3]((2,4,5),(5,11,15),(3,6,8),(6,14,19),(3,7,9),(5,12,16)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,12),(3,7,9),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,8),(4,9,12),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,15),(3,6,8),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,16),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,14,19),(5,12,16),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,15),(6,14,19),(4,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,4,5),(3,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(3,6,8)); lvl=2; h,r-ind=1,1
  [4,3]((1,4,6),(4,13,20),(1,3,4),(2,6,9)); lvl=1; h,r-ind=1,1
    [3,3]((3,10,15),(1,3,4),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,13,20),(3,10,15),(2,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(4,13,20),(3,10,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(3,10,15),(1,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((4,15,24),(1,4,6),(4,13,20)); lvl=1; h,r-ind=4,4; optimized-h
  [3,3]((1,0,0),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((2,5,6),(1,3,4),(1,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((1,4,6),(0,1,0),(1,3,4),(1,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((0,1,0),(2,8,9),(1,3,3),(2,7,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,4,4),(2,8,9),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,4,4),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(2,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(0,1,0),(1,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(1,3,3),(2,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(1,4,5),(2,8,9),(2,7,8)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((1,4,5),(2,8,9),(3,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(2,8,9),(3,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,8),(3,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,4,5),(3,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,4,6),(1,3,4),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,5),(2,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,6),(0,1,0),(1,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(2,3,4),(2,5,6),(1,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,3,3),(2,3,3),(2,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,11,13),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(5,11,13),(2,4,5)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(1,3,3),(2,5,6),(5,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,3,3),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(3,7,8),(2,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(1,3,3),(3,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((5,11,13),(1,2,2),(3,7,8)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(2,3,4),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(2,4,5),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,4,5),(5,8,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(2,3,4),(1,1,1),(5,8,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(2,3,4),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(2,4,5)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,0,0),(5,15,24),(1,2,3),(3,9,14)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(3,9,14),(8,21,33),(5,14,22)); lvl=2; h,r-ind=1,1
      [3,3]((3,9,14),(6,16,25),(5,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((8,21,33),(6,16,25),(5,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(8,21,33),(6,16,25)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,9,14),(6,16,25)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,8),(4,12,19),(8,21,33),(5,14,22)); lvl=2; h,r-ind=1,1
      [3,3]((7,19,30),(4,12,19),(5,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((8,21,33),(7,19,30),(5,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(8,21,33),(7,19,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,8),(7,19,30),(4,12,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,8),(5,15,24),(4,12,19)); lvl=2; h,r-ind=1,1
    [3,3]((4,12,19),(3,9,14),(5,14,22)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,5,8),(1,2,3),(8,21,33)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,5,8),(3,7,11),(8,21,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,11),(8,21,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,2,3),(3,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,5,8),(3,7,11)); lvl=3; h,r-ind=1,1
```

24.52 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,17,24)); lvl=0; h,r-ind=24,144
  [4,3]((1,0,0),(1,2,2),(2,4,5),(2,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,1),(5,8,10),(1,2,2),(2,4,5)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,2),(3,5,6),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,10),(3,5,6),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(5,8,10),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(5,8,10),(2,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,1),(2,3,4),(5,8,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,5),(1,1,1),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
  [4,3]((3,8,11),(1,3,4),(2,4,5),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((1,3,4),(3,6,8),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,6,8),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,11),(1,3,4),(3,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,8,11),(3,6,8)); lvl=2; h,r-ind=1,1
  [5,3]((4,15,21),(3,10,14),(3,11,15),(3,8,11),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((4,13,18),(1,3,4),(3,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,14),(4,13,18),(3,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,21),(3,10,14),(8,28,39)); lvl=2; h,r-ind=1,1
    [4,3]((6,21,29),(9,31,43),(4,13,18),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((4,13,18),(9,31,43),(10,34,47)); lvl=3; h,r-ind=1,1
      [3,3]((6,21,29),(9,31,43),(10,34,47)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(6,21,29),(10,34,47)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(4,13,18),(10,34,47)); lvl=3; h,r-ind=1,1
    [4,3]((3,10,14),(9,31,43),(8,28,39),(4,13,18)); lvl=2; h,r-ind=1,1
      [3,3]((9,31,43),(8,28,39),(12,41,57)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((3,10,14),(8,28,39),(12,41,57)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,18),(3,10,14),(12,41,57)); lvl=3; h,r-ind=1,1
      [3,3]((4,13,18),(9,31,43),(12,41,57)); lvl=3; h,r-ind=1,1
    [4,3]((4,15,21),(6,21,29),(9,31,43),(8,28,39)); lvl=2; h,r-ind=1,1
      [4,3]((5,18,25),(22,77,107),(9,31,43),(6,21,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((14,49,68),(9,31,43),(22,77,107)); lvl=4; h,r-ind=1,1
        [3,3]((5,18,25),(14,49,68),(22,77,107)); lvl=4; h,r-ind=1,1
        [3,3]((6,21,29),(14,49,68),(9,31,43)); lvl=4; h,r-ind=1,1
        [3,3]((5,18,25),(6,21,29),(14,49,68)); lvl=4; h,r-ind=1,1
      [3,3]((8,28,39),(22,77,107),(9,31,43)); lvl=3; h,r-ind=1,1
      [4,3]((4,15,21),(5,18,25),(8,28,39),(22,77,107)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((13,46,64),(22,77,107),(8,28,39)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,21),(13,46,64),(8,28,39)); lvl=4; h,r-ind=1,1
        [3,3]((13,46,64),(5,18,25),(22,77,107)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,21),(13,46,64),(5,18,25)); lvl=4; h,r-ind=1,1
    [3,3]((6,21,29),(1,3,4),(3,11,15)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,21),(6,21,29),(3,11,15)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((4,17,24),(4,15,21),(3,10,14)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(3,10,14),(3,8,11),(2,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((2,5,7),(7,16,22),(3,10,14),(3,8,11)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,8,11),(7,16,22),(5,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(7,16,22),(5,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,14),(2,5,7),(5,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,14),(3,8,11),(5,13,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(7,16,22),(3,8,11)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,5,7),(2,3,4),(7,16,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,7),(7,16,22),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(7,16,22),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,5,7),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(1,0,0),(4,8,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(4,17,24),(3,10,14)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((2,7,9),(1,3,4),(1,2,2),(1,3,3),(2,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(1,2,2),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,6),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,9),(3,9,11)); lvl=2; h,r-ind=1,1
    [4,3]((4,11,13),(2,5,6),(3,8,9),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,6),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,13),(2,5,6),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(4,11,13),(5,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(1,2,2),(5,13,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(3,8,9),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(3,9,11),(4,11,13),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,9,11),(4,11,13),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(4,11,13),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,9,11),(5,14,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(1,3,4),(5,14,17)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(3,9,11),(4,11,13),(3,8,9)); lvl=2; h,r-ind=1,1
      [4,3]((2,6,7),(9,25,29),(3,9,11),(4,11,13)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,11,13),(9,25,29),(6,17,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(9,25,29),(6,17,20)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,11),(4,11,13),(6,17,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(3,9,11),(6,17,20)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,9),(9,25,29),(4,11,13)); lvl=3; h,r-ind=1,1
      [4,3]((1,3,3),(2,6,7),(3,8,9),(9,25,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,14,16),(9,25,29),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,3),(5,14,16),(2,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(1,3,3),(5,14,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,9),(5,14,16),(9,25,29)); lvl=4; h,r-ind=1,1
    [3,3]((2,7,9),(1,3,3),(3,9,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((3,11,15),(4,15,20),(2,7,9),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((4,15,20),(2,7,9),(5,18,24)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(2,7,9),(5,18,24)); lvl=2; h,r-ind=1,1
    [3,3]((3,11,15),(4,15,20),(5,18,24)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(3,11,15),(5,18,24)); lvl=2; h,r-ind=1,1
  [5,3]((4,17,24),(4,15,21),(2,9,12),(3,11,15),(4,15,20)); lvl=1; h,r-ind=1,1
    [3,3]((2,8,11),(4,15,20),(3,11,15)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,21),(2,8,11),(3,11,15)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,21),(7,28,39),(2,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,17,24),(7,28,39),(2,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,17,24),(4,15,21),(7,28,39)); lvl=2; h,r-ind=3,9; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,8,11),(3,12,16),(4,15,20)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,11),(2,9,12),(3,12,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,13,18),(2,8,11),(2,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,17,24),(3,13,18),(2,8,11)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
  [5,3]((2,9,12),(4,15,20),(2,7,9),(0,1,0),(1,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,4,5),(2,7,9),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,5),(2,8,9),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,8,9),(1,3,3)); lvl=2; h,r-ind=3,9; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,4,5),(2,8,9)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((0,1,0),(1,5,6),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,12),(1,5,6),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,20),(1,4,5),(2,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,20),(3,12,16),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,9,12),(3,12,16),(1,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

24.53 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,19,24)); lvl=0; h,r-ind=24,144
  [3,3]((2,5,6),(1,0,0),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((4,19,24),(1,0,0),(1,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,2),(2,5,6),(1,3,3),(1,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(1,4,5),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(1,4,5),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,5,6),(2,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(1,2,2),(2,6,7)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,5,6),(1,3,3),(1,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,5,6),(2,9,10),(1,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,4,4),(2,9,9),(2,9,10),(1,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,9),(2,9,10),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,5),(2,9,10),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(1,4,5),(3,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,9,9),(3,13,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(1,4,4),(1,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(2,9,9),(1,5,6),(2,9,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,9,9),(1,5,5),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,5,6),(1,5,5),(2,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,5,6),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,9,9),(1,5,5)); lvl=3; h,r-ind=1,1
  [3,3]((4,19,24),(1,5,6),(1,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,2),(2,5,6),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=1; h,r-ind=1,1
```

24.54 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,21,24)); lvl=0; h,r-ind=24,48
  [4,3]((0,1,0),(2,11,12),(1,3,3),(2,9,10)); lvl=1; h,r-ind=2,2
    [4,3]((1,4,4),(2,10,11),(2,9,9),(2,9,10)); lvl=2; h,r-ind=1,1
      [3,3]((2,9,9),(3,14,15),(2,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(3,14,15),(2,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,9,9),(3,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(1,4,4),(3,14,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(1,4,4),(2,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,4,4),(2,9,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,11,12),(2,10,11),(1,6,6),(2,9,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,10,11),(2,9,9),(1,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,26,28),(2,10,11),(1,5,5)); lvl=3; h,r-ind=1,1
      [4,3]((2,11,12),(1,6,6),(5,26,28),(1,5,5)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,16,17),(1,6,6),(1,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((5,26,28),(3,16,17),(1,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(5,26,28),(3,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,11,12),(3,16,17),(1,6,6)); lvl=4; h,r-ind=1,1
      [3,3]((2,11,12),(5,26,28),(2,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,6,6),(2,9,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((2,8,9),(1,1,1),(1,3,3),(2,9,10)); lvl=1; h,r-ind=1,1
    [4,3]((2,9,10),(5,19,21),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,2),(3,11,12),(5,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(3,11,12),(5,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,9,10),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(3,11,12)); lvl=3; h,r-ind=1,1
    [4,3]((2,8,9),(5,19,21),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,10,11),(1,2,2),(5,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(3,10,11),(5,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,10,11),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(1,1,1),(3,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,8,9),(2,9,10),(5,19,21)); lvl=2; h,r-ind=1,1
  [4,3]((4,21,24),(5,21,24),(2,8,9),(2,9,10)); lvl=1; h,r-ind=1,1
    [4,3]((3,14,16),(10,45,51),(2,8,9),(5,21,24)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,8,9),(5,22,25),(10,45,51)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((3,14,16),(5,22,25),(10,45,51)); lvl=3; h,r-ind=1,1
      [3,3]((5,21,24),(2,8,9),(5,22,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,16),(5,21,24),(5,22,25)); lvl=3; h,r-ind=1,1
    [3,3]((3,14,16),(4,21,24),(3,15,17)); lvl=2; h,r-ind=1,1
    [4,3]((2,9,10),(5,23,26),(10,45,51),(2,8,9)); lvl=2; h,r-ind=1,1
      [3,3]((5,23,26),(7,31,35),(10,45,51)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(7,31,35),(10,45,51)); lvl=3; h,r-ind=1,1
      [3,3]((2,9,10),(5,23,26),(7,31,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(2,9,10),(7,31,35)); lvl=3; h,r-ind=1,1
    [4,3]((3,14,16),(3,15,17),(5,23,26),(10,45,51)); lvl=2; h,r-ind=1,1
      [3,3]((8,37,42),(3,15,17),(5,23,26)); lvl=3; h,r-ind=1,1
      [3,3]((10,45,51),(8,37,42),(5,23,26)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,16),(10,45,51),(8,37,42)); lvl=3; h,r-ind=1,1
      [3,3]((3,14,16),(8,37,42),(3,15,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,9,10),(3,15,17),(5,23,26)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(5,21,24),(2,8,9),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((2,7,8),(2,8,9),(5,21,24)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,8),(5,16,18),(2,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(5,16,18),(2,8,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,8),(1,0,0),(1,1,1),(5,16,18)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(3,8,9),(1,0,0)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,8),(3,8,9),(1,0,0)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,18),(2,7,8),(3,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,16,18),(1,1,1),(3,8,9)); lvl=3; h,r-ind=1,1
  [3,3]((4,21,24),(2,11,12),(2,9,10)); lvl=1; h,r-ind=4,2; optimized-h
  [3,3]((1,1,1),(0,1,0),(1,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
```

24.55 Resolved

```
[3,3]((1,0,0),(0,1,0),(4,23,24)); lvl=0; h,r-ind=24,144
  [3,3]((0,1,0),(1,3,3),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,23,24),(1,3,3),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(4,23,24),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,6,6),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((4,23,24),(1,6,6),(1,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

24.56 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,5,24)); lvl=0; h,r-ind=24,576
  [3,3]((1,0,0),(2,2,5),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(2,2,5),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,5,23),(1,0,0),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(5,5,23),(1,1,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,5,23),(4,4,19),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,5,24),(4,4,19),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,5,23),(4,4,19)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,5,24),(0,1,0),(4,4,19)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,5)); lvl=1; h,r-ind=5,25; optimized-h
```

24.57 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,6,24)); lvl=0; h,r-ind=24,96
  [4,3]((0,1,0),(4,5,10),(3,4,12),(4,5,15)); lvl=1; h,r-ind=1,1
    [4,3]((4,5,10),(2,3,6),(8,10,25),(6,8,19)); lvl=2; h,r-ind=2,1; alert-h-inc
      [3,3]((3,4,9),(2,3,6),(6,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(7,9,22),(6,8,19)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,12),(3,4,9),(8,10,25),(7,9,22)); lvl=3; h,r-ind=1,1
        [3,3]((11,14,34),(7,9,22),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,12),(11,14,34),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((8,10,25),(11,14,34),(7,9,22)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,12),(8,10,25),(11,14,34)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,23),(4,5,12),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,8),(3,4,9),(2,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,10),(8,10,23),(3,4,8),(3,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((10,13,28),(3,4,9),(3,4,8)); lvl=4; h,r-ind=1,1
        [4,3]((4,5,10),(10,13,28),(4,5,11),(3,4,8)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((7,9,19),(10,13,28),(4,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,10),(7,9,19),(4,5,11)); lvl=5; h,r-ind=1,1
```

```
          [3,3]((3,4,8),(4,5,10),(7,9,19)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,8),(7,9,19),(10,13,28)); lvl=5; h,r-ind=1,1
        [3,3]((10,13,28),(4,5,11),(3,4,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,11),(8,10,23),(3,4,9)); lvl=4; h,r-ind=1,1
    [4,3]((4,5,15),(3,4,11),(8,10,25),(6,8,19)); lvl=2; h,r-ind=1,1
      [3,3]((7,9,22),(6,8,19),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,13),(7,9,22),(3,4,10)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,13),(8,10,27),(3,4,10)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,15),(8,10,27),(3,4,11),(3,4,10)); lvl=3; h,r-ind=1,1
        [3,3]((3,4,11),(10,13,35),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,14),(10,13,35),(3,4,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,14),(8,10,27),(3,4,10)); lvl=4; h,r-ind=1,1
        [4,3]((4,5,15),(4,5,14),(3,4,11),(10,13,35)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,5,14),(10,13,35),(7,9,25)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,11),(10,13,35),(7,9,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,15),(3,4,11),(7,9,25)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,15),(4,5,14),(7,9,25)); lvl=5; h,r-ind=1,1
      [3,3]((8,10,25),(4,5,13),(7,9,22)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,12),(3,5,12),(3,4,11),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,8),(2,3,7),(3,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(7,10,26),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,26),(3,4,11),(2,3,7)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,12),(2,3,8),(7,10,26),(3,4,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,8),(5,7,19),(7,10,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,11),(5,7,19),(7,10,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,12),(3,4,11),(5,7,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,12),(2,3,8),(5,7,19)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,12),(4,5,15),(3,4,11)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,11),(2,3,7),(2,3,6),(6,8,19)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,7),(7,10,23),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(7,10,23),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(6,8,19),(2,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,11),(3,4,10),(2,3,7),(7,10,23)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,10),(7,10,23),(5,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,7),(7,10,23),(5,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,11),(2,3,7),(5,7,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,11),(3,4,10),(5,7,17)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(3,5,12),(2,3,7),(2,3,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,4),(6,10,21),(2,3,7),(3,5,12)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,5,11),(6,10,21),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,12),(3,5,11),(2,3,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(3,5,12),(3,5,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(3,5,11),(6,10,21)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,10),(6,10,21),(2,3,6),(2,3,7)); lvl=3; h,r-ind=1,1
        [3,3]((2,3,6),(2,3,7),(5,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,21),(2,3,7),(5,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,10),(2,3,6),(5,8,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,10),(6,10,21),(5,8,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,10),(2,3,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,4),(1,2,3),(3,5,10),(6,10,21)); lvl=3; h,r-ind=1,1
        [3,3]((4,7,14),(1,2,3),(3,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,21),(4,7,14),(3,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(6,10,21),(4,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,4),(4,7,14),(1,2,3)); lvl=4; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(4,5,10),(2,3,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,3,5),(2,3,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,1,4),(3,4,13),(3,4,12),(4,5,15)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,13),(4,5,16),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,15),(4,5,16),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(3,4,13),(4,5,16)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,15),(1,1,4),(4,5,16)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,14),(5,7,23),(1,1,4),(3,4,13)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,13),(5,7,23),(6,8,27)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,14),(5,7,23),(6,8,27)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(3,4,14),(6,8,27)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(3,4,13),(6,8,27)); lvl=2; h,r-ind=1,1
  [3,3]((5,6,24),(3,4,14),(1,1,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(3,4,14),(5,7,23)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,24),(0,1,0),(3,4,14)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(5,7,23),(3,4,13),(3,4,12)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,9),(5,7,23),(3,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(3,4,12),(3,4,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(3,4,12),(3,5,12)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,3,9),(3,5,12)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((0,1,0),(2,3,9),(5,7,23)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,4),(1,0,0),(4,5,10),(4,5,15)); lvl=1; h,r-ind=5,5
    [4,3]((4,5,10),(8,10,25),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,12),(1,1,3),(8,10,25)); lvl=3; h,r-ind=1,1
      [4,3]((8,10,23),(4,5,12),(7,8,19),(1,1,3)); lvl=3; h,r-ind=1,1
```

```
        [3,3]((4,5,12),(1,1,3),(10,12,29)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,14),(1,1,3),(10,12,29)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,14),(7,8,19),(1,1,3)); lvl=4; h,r-ind=1,1
        [4,3]((8,10,23),(5,6,14),(4,5,12),(10,12,29)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((9,11,26),(10,12,29),(5,6,14)); lvl=5; h,r-ind=1,1
          [3,3]((8,10,23),(9,11,26),(5,6,14)); lvl=5; h,r-ind=1,1
          [3,3]((9,11,26),(4,5,12),(10,12,29)); lvl=5; h,r-ind=1,1
          [3,3]((8,10,23),(9,11,26),(4,5,12)); lvl=5; h,r-ind=1,1
      [3,3]((7,8,19),(1,1,2),(1,1,3)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,10),(8,10,23),(7,8,19),(1,1,2)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((1,1,2),(11,13,29),(5,6,14),(7,8,19)); lvl=4; h,r-ind=1,3
          [3,3]((11,13,29),(5,6,14),(6,7,16)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,19),(5,6,14),(6,7,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(7,8,19),(6,7,16)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(11,13,29),(6,7,16)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,11),(11,13,29),(5,6,14)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((4,5,11),(8,10,23),(5,6,14)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,2),(4,5,10),(4,5,11),(11,13,29)); lvl=4; h,r-ind=1,3
          [3,3]((5,6,13),(4,5,11),(4,5,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(5,6,13),(4,5,10)); lvl=5; h,r-ind=1,1
          [3,3]((11,13,29),(5,6,13),(4,5,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,2),(11,13,29),(5,6,13)); lvl=5; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,4),(1,0,0),(1,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,15),(8,10,25),(1,1,3)); lvl=2; h,r-ind=5,5; optimized-h
    [3,3]((1,1,4),(4,5,15),(1,1,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(4,5,10)); lvl=1; h,r-ind=10,10; optimized-h
```

24.58 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,7,24)); lvl=0; h,r-ind=24,576
  [5,3]((2,3,7),(3,4,11),(2,3,5),(1,1,2),(1,1,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,11),(3,4,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,11),(3,4,10)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,14),(3,4,9),(1,1,3),(3,4,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,9),(3,4,10),(4,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,10),(4,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,14),(3,4,9),(4,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(5,6,14),(4,5,12)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,14),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,7),(3,4,9),(2,3,6),(3,4,10)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,16),(3,4,9),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,7),(5,7,16),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(2,3,7),(5,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(5,7,16),(3,4,9)); lvl=3; h,r-ind=1,1
    [5,3]((5,6,14),(3,4,9),(1,1,2),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
      [4,3]((7,9,19),(6,8,17),(2,3,6),(3,4,8)); lvl=3; h,r-ind=1,1
        [3,3]((6,8,17),(2,3,6),(9,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,8),(2,3,6),(9,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,19),(3,4,8),(9,12,25)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,19),(6,8,17),(9,12,25)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,19),(1,1,2),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,1,2),(3,4,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,11),(7,9,19),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,14),(4,5,11),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(2,3,6),(3,4,8)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,11),(7,9,19),(6,8,17),(3,4,9)); lvl=3; h,r-ind=1,1
        [3,3]((6,8,17),(7,9,19),(10,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,11),(7,9,19),(10,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(4,5,11),(10,13,28)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,9),(6,8,17),(10,13,28)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,14),(4,5,11),(3,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,17),(2,3,6),(3,4,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=1; h,r-ind=1,1
  [4,3]((7,9,28),(3,4,12),(3,4,11),(1,1,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,12),(3,4,11),(4,5,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,11),(4,5,15)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,28),(3,4,12),(4,5,15)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(7,9,28),(4,5,15)); lvl=2; h,r-ind=1,1
  [5,3]((3,3,10),(9,12,40),(3,4,13),(7,9,28),(1,1,3)); lvl=1; h,r-ind=1,1
    [6,3]((8,10,33),(9,11,36),(13,16,52),(11,14,46),(15,19,62),(16,20,65)); lvl=2; h,r-ind=1,1
      [3,3]((12,15,49),(16,20,65),(13,16,52)); lvl=3; h,r-ind=1,1
      [3,3]((12,15,49),(9,11,36),(13,16,52)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,33),(12,15,49),(9,11,36)); lvl=3; h,r-ind=1,1
      [3,3]((12,15,49),(15,19,62),(16,20,65)); lvl=3; h,r-ind=1,1
      [3,3]((12,15,49),(11,14,46),(15,19,62)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,33),(12,15,49),(11,14,46)); lvl=3; h,r-ind=1,1
```

```
  [4,3]((3,4,13),(4,5,16),(15,19,62),(16,20,65)); lvl=2; h,r-ind=1,1
    [3,3]((19,24,78),(16,20,65),(4,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,13),(19,24,78),(4,5,16)); lvl=3; h,r-ind=1,1
    [3,3]((15,19,62),(19,24,78),(16,20,65)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,13),(15,19,62),(19,24,78)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,13),(4,5,16),(7,9,28)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,3),(4,5,16),(7,9,28)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,3),(4,5,16),(13,16,52),(16,20,65)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,16),(16,20,65),(17,21,68)); lvl=3; h,r-ind=1,1
    [3,3]((13,16,52),(16,20,65),(17,21,68)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(4,5,16),(17,21,68)); lvl=3; h,r-ind=1,1
    [3,3]((13,16,52),(1,1,3),(17,21,68)); lvl=3; h,r-ind=1,1
  [4,3]((9,12,40),(12,15,50),(8,10,33),(11,14,46)); lvl=2; h,r-ind=1,1
    [4,3]((7,9,30),(33,42,139),(8,10,33),(12,15,50)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((15,19,63),(33,42,139),(8,10,33)); lvl=4; h,r-ind=1,1
      [3,3]((12,15,50),(15,19,63),(8,10,33)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,30),(12,15,50),(15,19,63)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,30),(15,19,63),(33,42,139)); lvl=4; h,r-ind=1,1
    [4,3]((18,23,76),(33,42,139),(11,14,46),(8,10,33)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,33),(33,42,139),(26,33,109)); lvl=4; h,r-ind=1,1
      [3,3]((18,23,76),(33,42,139),(26,33,109)); lvl=4; h,r-ind=1,1
      [3,3]((18,23,76),(11,14,46),(26,33,109)); lvl=4; h,r-ind=1,1
      [3,3]((11,14,46),(8,10,33),(26,33,109)); lvl=4; h,r-ind=1,1
    [3,3]((10,13,43),(18,23,76),(11,14,46)); lvl=3; h,r-ind=1,1
    [4,3]((10,13,43),(7,9,30),(18,23,76),(33,42,139)); lvl=3; h,r-ind=1,1
      [3,3]((25,32,106),(7,9,30),(33,42,139)); lvl=4; h,r-ind=1,1
      [3,3]((25,32,106),(18,23,76),(33,42,139)); lvl=4; h,r-ind=1,1
      [3,3]((10,13,43),(25,32,106),(18,23,76)); lvl=4; h,r-ind=1,1
      [3,3]((10,13,43),(25,32,106),(7,9,30)); lvl=4; h,r-ind=1,1
    [3,3]((10,13,43),(9,12,40),(7,9,30)); lvl=3; h,r-ind=1,1
  [4,3]((3,3,10),(12,15,50),(8,10,33),(9,11,36)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,20),(27,33,109),(8,10,33),(12,15,50)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((8,10,33),(13,16,53),(27,33,109)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,20),(13,16,53),(27,33,109)); lvl=4; h,r-ind=1,1
      [3,3]((12,15,50),(5,6,20),(13,16,53)); lvl=4; h,r-ind=1,1
      [3,3]((12,15,50),(8,10,33),(13,16,53)); lvl=4; h,r-ind=1,1
    [4,3]((27,33,109),(14,17,56),(9,11,36),(8,10,33)); lvl=3; h,r-ind=1,1
      [3,3]((14,17,56),(9,11,36),(22,27,89)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,33),(9,11,36),(22,27,89)); lvl=4; h,r-ind=1,1
      [3,3]((27,33,109),(14,17,56),(22,27,89)); lvl=4; h,r-ind=1,1
      [3,3]((8,10,33),(27,33,109),(22,27,89)); lvl=4; h,r-ind=1,1
    [3,3]((6,7,23),(14,17,56),(9,11,36)); lvl=3; h,r-ind=1,1
    [4,3]((6,7,23),(5,6,20),(27,33,109),(14,17,56)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,20),(27,33,109),(19,23,76)); lvl=4; h,r-ind=1,1
      [3,3]((14,17,56),(27,33,109),(19,23,76)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,23),(14,17,56),(19,23,76)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,23),(5,6,20),(19,23,76)); lvl=4; h,r-ind=1,1
    [3,3]((6,7,23),(3,3,10),(5,6,20)); lvl=3; h,r-ind=1,1
  [4,3]((3,3,10),(1,1,3),(9,11,36),(13,16,52)); lvl=2; h,r-ind=1,1
    [3,3]((10,12,39),(1,1,3),(13,16,52)); lvl=3; h,r-ind=1,1
    [3,3]((10,12,39),(9,11,36),(13,16,52)); lvl=3; h,r-ind=1,1
    [4,3]((6,7,23),(17,20,65),(10,12,39),(9,11,36)); lvl=3; h,r-ind=1,1
      [3,3]((16,19,62),(17,20,65),(10,12,39)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,36),(16,19,62),(10,12,39)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,23),(9,11,36),(16,19,62)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,23),(16,19,62),(17,20,65)); lvl=4; h,r-ind=1,1
    [3,3]((17,20,65),(10,12,39),(1,1,3)); lvl=3; h,r-ind=1,1
    [4,3]((3,3,10),(6,7,23),(17,20,65),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,23),(17,20,65),(7,8,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(17,20,65),(7,8,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,10),(6,7,23),(7,8,26)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,3),(3,3,10),(7,8,26)); lvl=4; h,r-ind=1,1
  [4,3]((3,4,13),(9,12,40),(11,14,46),(15,19,62)); lvl=2; h,r-ind=1,1
    [4,3]((27,35,115),(14,18,59),(10,13,43),(11,14,46)); lvl=3; h,r-ind=1,1
      [3,3]((14,18,59),(11,14,46),(24,31,102)); lvl=4; h,r-ind=1,1
      [3,3]((10,13,43),(11,14,46),(24,31,102)); lvl=4; h,r-ind=1,1
      [3,3]((27,35,115),(14,18,59),(24,31,102)); lvl=4; h,r-ind=1,1
      [3,3]((10,13,43),(27,35,115),(24,31,102)); lvl=4; h,r-ind=1,1
    [3,3]((14,18,59),(15,19,62),(11,14,46)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,13),(14,18,59),(15,19,62)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,13),(27,35,115),(14,18,59)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,13),(27,35,115),(9,12,40),(10,13,43)); lvl=3; h,r-ind=1,1
      [3,3]((13,17,56),(10,13,43),(27,35,115)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,13),(13,17,56),(27,35,115)); lvl=4; h,r-ind=1,1
      [3,3]((13,17,56),(9,12,40),(10,13,43)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,13),(13,17,56),(9,12,40)); lvl=4; h,r-ind=1,1
[3,3]((1,0,0),(3,3,10),(1,1,3)); lvl=1; h,r-ind=1,1
[7,3]((5,9,23),(2,4,9),(1,2,4),(2,3,7),(2,3,9),(3,4,12),(3,4,11)); lvl=1; h,r-ind=1,1
  [4,3]((6,11,26),(3,5,13),(4,7,18),(2,4,9)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((3,5,13),(4,7,18),(5,9,22)); lvl=3; h,r-ind=1,1
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      [3,3]((2,4,9),(4,7,18),(5,9,22)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,26),(2,4,9),(5,9,22)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,26),(3,5,13),(5,9,22)); lvl=3; h,r-ind=1,1
    [3,3]((5,9,23),(4,7,18),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(6,11,26),(2,4,9)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(6,11,26),(2,3,8),(3,5,13)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,7,17),(3,5,13),(6,11,26)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(4,7,17),(6,11,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,8),(4,7,17),(3,5,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,3,8),(4,7,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(2,3,8),(3,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(3,4,12),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(1,2,4),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,11),(2,3,7),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(3,4,11),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(3,5,13),(4,7,18)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,23),(2,3,9),(4,7,18)); lvl=2; h,r-ind=1,1
  [5,3]((3,4,13),(7,9,28),(5,7,23),(2,3,9),(3,4,12)); lvl=1; h,r-ind=1,1
    [3,3]((8,11,34),(2,3,9),(3,4,12)); lvl=2; h,r-ind=1,1
    [4,3]((6,8,25),(8,11,34),(11,15,47),(3,4,12)); lvl=2; h,r-ind=1,1
      [3,3]((14,19,59),(8,11,34),(11,15,47)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,25),(14,19,59),(11,15,47)); lvl=3; h,r-ind=1,1
      [3,3]((14,19,59),(3,4,12),(8,11,34)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,25),(14,19,59),(3,4,12)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,28),(6,8,25),(3,4,12)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,13),(7,9,28),(6,8,25)); lvl=2; h,r-ind=1,1
    [4,3]((8,11,35),(8,11,34),(11,15,47),(2,3,9)); lvl=2; h,r-ind=1,1
      [3,3]((11,15,47),(8,11,34),(24,33,103)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,22),(2,3,9),(8,11,34),(24,33,103)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,3,9),(13,18,56),(8,11,34)); lvl=4; h,r-ind=1,1
        [3,3]((24,33,103),(13,18,56),(8,11,34)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,22),(2,3,9),(13,18,56)); lvl=4; h,r-ind=1,1
        [3,3]((24,33,103),(5,7,22),(13,18,56)); lvl=4; h,r-ind=1,1
      [4,3]((8,11,35),(5,7,22),(11,15,47),(24,33,103)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((16,22,69),(24,33,103),(5,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((8,11,35),(16,22,69),(5,7,22)); lvl=4; h,r-ind=1,1
        [3,3]((16,22,69),(11,15,47),(24,33,103)); lvl=4; h,r-ind=1,1
        [3,3]((8,11,35),(16,22,69),(11,15,47)); lvl=4; h,r-ind=1,1
    [3,3]((8,11,35),(5,7,23),(2,3,9)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,4,13),(8,11,35),(5,7,23)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,13),(6,8,25),(8,11,35),(11,15,47)); lvl=2; h,r-ind=1,1
      [3,3]((14,19,60),(11,15,47),(6,8,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(14,19,60),(6,8,25)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,35),(14,19,60),(11,15,47)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(8,11,35),(14,19,60)); lvl=3; h,r-ind=1,1
  [5,3]((9,12,40),(18,25,84),(8,11,37),(3,4,13),(5,7,23)); lvl=1; h,r-ind=1,1
    [3,3]((21,29,97),(8,11,37),(18,25,84)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,23),(21,29,97),(18,25,84)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,4,13),(5,7,23),(16,22,73)); lvl=2; h,r-ind=1,1
    [4,3]((21,29,97),(11,15,50),(24,33,110),(8,11,37)); lvl=2; h,r-ind=1,1
      [3,3]((11,15,50),(24,33,110),(32,44,147)); lvl=3; h,r-ind=1,1
      [3,3]((21,29,97),(24,33,110),(32,44,147)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,37),(21,29,97),(32,44,147)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,37),(11,15,50),(32,44,147)); lvl=3; h,r-ind=1,1
    [3,3]((9,12,40),(11,15,50),(8,11,37)); lvl=2; h,r-ind=1,1
    [4,3]((5,7,23),(21,29,97),(24,33,110),(16,22,73)); lvl=2; h,r-ind=1,1
      [4,3]((13,18,60),(53,73,243),(21,29,97),(24,33,110)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((37,51,170),(53,73,243),(24,33,110)); lvl=4; h,r-ind=1,1
        [3,3]((21,29,97),(37,51,170),(24,33,110)); lvl=4; h,r-ind=1,1
        [3,3]((13,18,60),(21,29,97),(37,51,170)); lvl=4; h,r-ind=1,1
        [3,3]((13,18,60),(37,51,170),(53,73,243)); lvl=4; h,r-ind=1,1
      [3,3]((16,22,73),(53,73,243),(24,33,110)); lvl=3; h,r-ind=1,1
      [4,3]((5,7,23),(13,18,60),(16,22,73),(53,73,243)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((13,18,60),(29,40,133),(53,73,243)); lvl=4; h,r-ind=1,1
        [3,3]((16,22,73),(29,40,133),(53,73,243)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,23),(16,22,73),(29,40,133)); lvl=4; h,r-ind=1,1
        [3,3]((5,7,23),(13,18,60),(29,40,133)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,13),(11,15,50),(24,33,110),(16,22,73)); lvl=2; h,r-ind=1,1
      [3,3]((27,37,123),(24,33,110),(11,15,50)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(27,37,123),(11,15,50)); lvl=3; h,r-ind=1,1
      [3,3]((16,22,73),(27,37,123),(24,33,110)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,13),(16,22,73),(27,37,123)); lvl=3; h,r-ind=1,1
    [3,3]((9,12,40),(3,4,13),(11,15,50)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,24),(18,25,84),(8,11,37)); lvl=1; h,r-ind=1,1
  [4,3]((5,7,24),(3,3,10),(9,12,40),(8,11,37)); lvl=1; h,r-ind=1,1
    [4,3]((6,8,27),(4,5,17),(3,3,10),(12,15,50)); lvl=2; h,r-ind=1,1
      [4,3]((4,5,17),(15,19,64),(5,6,20),(3,3,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,6,20),(15,19,64),(9,11,37)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,17),(15,19,64),(9,11,37)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,10),(5,6,20),(9,11,37)); lvl=4; h,r-ind=1,1
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      [3,3]((4,5,17),(3,3,10),(9,11,37)); lvl=4; h,r-ind=1,1
    [3,3]((6,8,27),(4,5,17),(15,19,64)); lvl=3; h,r-ind=1,1
    [3,3]((6,8,27),(15,19,64),(5,6,20)); lvl=3; h,r-ind=1,1
    [3,3]((6,8,27),(12,15,50),(5,6,20)); lvl=3; h,r-ind=1,1
  [3,3]((6,8,27),(9,12,40),(12,15,50)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((6,8,27),(8,11,37),(9,12,40)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,24),(6,8,27),(8,11,37)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,24),(6,8,27),(4,5,17)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(5,7,24),(3,3,10)); lvl=1; h,r-ind=2,2; optimized-h
[5,3]((5,7,24),(5,9,23),(18,25,84),(5,7,23),(2,3,9)); lvl=1; h,r-ind=1,1
  [5,3]((10,14,47),(5,7,23),(16,23,74),(25,36,116),(17,24,80)); lvl=2; h,r-ind=1,1
    [3,3]((14,20,65),(16,23,74),(5,7,23)); lvl=3; h,r-ind=1,1
    [3,3]((26,37,121),(14,20,65),(5,7,23)); lvl=3; h,r-ind=1,1
    [3,3]((12,17,56),(26,37,121),(5,7,23)); lvl=3; h,r-ind=1,1
    [3,3]((10,14,47),(12,17,56),(5,7,23)); lvl=3; h,r-ind=1,1
    [4,3]((17,24,80),(12,17,56),(26,37,121),(21,30,98)); lvl=3; h,r-ind=1,1
      [3,3]((12,17,56),(26,37,121),(45,64,210)); lvl=4; h,r-ind=1,1
      [3,3]((21,30,98),(26,37,121),(45,64,210)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized...
          ...-h
      [4,3]((17,24,80),(19,27,89),(12,17,56),(45,64,210)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((19,27,89),(31,44,145),(45,64,210)); lvl=5; h,r-ind=1,1
        [3,3]((12,17,56),(31,44,145),(45,64,210)); lvl=5; h,r-ind=1,1
        [3,3]((17,24,80),(12,17,56),(31,44,145)); lvl=5; h,r-ind=1,1
        [3,3]((17,24,80),(19,27,89),(31,44,145)); lvl=5; h,r-ind=1,1
      [3,3]((21,30,98),(19,27,89),(45,64,210)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-...
          ...h
    [3,3]((10,14,47),(17,24,80),(12,17,56)); lvl=3; h,r-ind=1,1
    [3,3]((14,20,65),(16,23,74),(25,36,116)); lvl=3; h,r-ind=1,1
    [4,3]((26,37,121),(21,30,98),(14,20,65),(25,36,116)); lvl=3; h,r-ind=1,1
      [3,3]((21,30,98),(23,33,107),(49,70,228)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized...
          ...-h
      [4,3]((14,20,65),(25,36,116),(23,33,107),(49,70,228)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((37,53,172),(25,36,116),(23,33,107)); lvl=5; h,r-ind=1,1
        [3,3]((49,70,228),(37,53,172),(23,33,107)); lvl=5; h,r-ind=1,1
        [3,3]((14,20,65),(49,70,228),(37,53,172)); lvl=5; h,r-ind=1,1
        [3,3]((14,20,65),(37,53,172),(25,36,116)); lvl=5; h,r-ind=1,1
      [3,3]((26,37,121),(21,30,98),(49,70,228)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized...
          ...-h
      [3,3]((14,20,65),(26,37,121),(49,70,228)); lvl=4; h,r-ind=1,1
  [5,3]((5,7,24),(7,11,33),(11,16,51),(25,36,116),(17,24,80)); lvl=2; h,r-ind=1,1
    [4,3]((16,23,75),(9,13,42),(29,42,136),(22,32,103)); lvl=3; h,r-ind=1,1
      [3,3]((38,55,178),(22,32,103),(9,13,42)); lvl=4; h,r-ind=1,1
      [3,3]((16,23,75),(38,55,178),(9,13,42)); lvl=4; h,r-ind=1,1
      [3,3]((29,42,136),(38,55,178),(22,32,103)); lvl=4; h,r-ind=1,1
      [3,3]((16,23,75),(29,42,136),(38,55,178)); lvl=4; h,r-ind=1,1
    [5,3]((4,6,19),(6,9,28),(20,29,94),(29,42,136),(22,32,103)); lvl=3; h,r-ind=1,1
      [3,3]((13,19,61),(29,42,136),(22,32,103)); lvl=4; h,r-ind=1,1
      [3,3]((6,9,28),(13,19,61),(22,32,103)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,19),(6,9,28),(13,19,61)); lvl=4; h,r-ind=1,1
      [3,3]((13,19,61),(20,29,94),(29,42,136)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,19),(13,19,61),(20,29,94)); lvl=4; h,r-ind=1,1
    [3,3]((7,11,33),(4,6,19),(6,9,28)); lvl=3; h,r-ind=1,1
    [4,3]((16,23,75),(7,10,33),(20,29,94),(29,42,136)); lvl=3; h,r-ind=1,1
      [3,3]((36,52,169),(20,29,94),(7,10,33)); lvl=4; h,r-ind=1,1
      [3,3]((16,23,75),(36,52,169),(7,10,33)); lvl=4; h,r-ind=1,1
      [3,3]((29,42,136),(36,52,169),(20,29,94)); lvl=4; h,r-ind=1,1
      [3,3]((16,23,75),(29,42,136),(36,52,169)); lvl=4; h,r-ind=1,1
    [4,3]((5,7,24),(4,6,19),(7,10,33),(20,29,94)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,19),(11,16,52),(20,29,94)); lvl=4; h,r-ind=1,1
      [3,3]((7,10,33),(11,16,52),(20,29,94)); lvl=4; h,r-ind=1,1
      [3,3]((7,10,33),(5,7,24),(11,16,52)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,24),(4,6,19),(11,16,52)); lvl=4; h,r-ind=1,1
    [4,3]((11,16,51),(6,9,28),(9,13,42),(22,32,103)); lvl=3; h,r-ind=1,1
      [3,3]((15,22,70),(22,32,103),(6,9,28)); lvl=4; h,r-ind=1,1
      [3,3]((11,16,51),(15,22,70),(6,9,28)); lvl=4; h,r-ind=1,1
      [3,3]((15,22,70),(9,13,42),(22,32,103)); lvl=4; h,r-ind=1,1
      [3,3]((11,16,51),(15,22,70),(9,13,42)); lvl=4; h,r-ind=1,1
    [3,3]((11,16,51),(25,36,116),(9,13,42)); lvl=3; h,r-ind=1,1
    [4,3]((17,24,80),(21,30,98),(16,23,75),(7,10,33)); lvl=3; h,r-ind=1,1
      [3,3]((21,30,98),(35,50,164),(16,23,75)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-...
          ...h
      [3,3]((7,10,33),(35,50,164),(16,23,75)); lvl=4; h,r-ind=1,1
      [3,3]((21,30,98),(19,27,89),(35,50,164)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-...
          ...h
      [4,3]((17,24,80),(7,10,33),(19,27,89),(35,50,164)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((7,10,33),(35,50,164),(26,37,122)); lvl=5; h,r-ind=1,1
        [3,3]((19,27,89),(35,50,164),(26,37,122)); lvl=5; h,r-ind=1,1
        [3,3]((17,24,80),(7,10,33),(26,37,122)); lvl=5; h,r-ind=1,1
        [3,3]((19,27,89),(17,24,80),(26,37,122)); lvl=5; h,r-ind=1,1
    [3,3]((5,7,24),(17,24,80),(7,10,33)); lvl=3; h,r-ind=1,1
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      [4,3]((25,36,116),(21,30,98),(16,23,75),(9,13,42)); lvl=3; h,r-ind=1,1
        [3,3]((39,56,182),(21,30,98),(16,23,75)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-...
            ...h
        [3,3]((9,13,42),(39,56,182),(16,23,75)); lvl=4; h,r-ind=1,1
        [4,3]((25,36,116),(23,33,107),(9,13,42),(39,56,182)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((32,46,149),(39,56,182),(23,33,107)); lvl=5; h,r-ind=1,1
          [3,3]((25,36,116),(32,46,149),(23,33,107)); lvl=5; h,r-ind=1,1
          [3,3]((32,46,149),(9,13,42),(39,56,182)); lvl=5; h,r-ind=1,1
          [3,3]((25,36,116),(32,46,149),(9,13,42)); lvl=5; h,r-ind=1,1
        [3,3]((23,33,107),(39,56,182),(21,30,98)); lvl=4; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized...
            ...-h
    [3,3]((5,7,24),(10,14,47),(17,24,80)); lvl=2; h,r-ind=1,1
    [3,3]((18,25,84),(10,14,47),(5,7,23)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,24),(18,25,84),(10,14,47)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,9),(11,16,51),(16,23,74),(25,36,116)); lvl=2; h,r-ind=1,1
      [3,3]((27,39,125),(25,36,116),(11,16,51)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(27,39,125),(11,16,51)); lvl=3; h,r-ind=1,1
      [3,3]((16,23,74),(27,39,125),(25,36,116)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,9),(16,23,74),(27,39,125)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,23),(2,3,9),(16,23,74)); lvl=2; h,r-ind=1,1
    [4,3]((7,11,33),(3,5,14),(2,3,9),(11,16,51)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,9),(3,5,14),(11,17,51)); lvl=3; h,r-ind=1,1
      [4,3]((6,9,28),(7,11,33),(3,5,14),(11,17,51)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,5,14),(9,14,42),(7,11,33)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,28),(9,14,42),(7,11,33)); lvl=4; h,r-ind=1,1
        [3,3]((11,17,51),(6,9,28),(9,14,42)); lvl=4; h,r-ind=1,1
        [3,3]((11,17,51),(3,5,14),(9,14,42)); lvl=4; h,r-ind=1,1
      [3,3]((6,9,28),(2,3,9),(11,17,51)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,28),(11,16,51),(2,3,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,14),(5,9,23),(2,3,9)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,4),(2,3,7),(0,1,0),(2,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,7),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(1,2,3),(2,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(0,1,0),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((2,4,9),(1,2,4),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,9,23),(2,4,9),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,7,24),(5,9,23),(0,1,0)); lvl=1; h,r-ind=5,5; optimized-h
  [4,3]((1,0,0),(0,1,0),(2,3,5),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,5),(2,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,2),(2,3,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(2,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,1,2),(1,1,1),(2,3,3),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,4),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(0,1,0),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=2; h,r-ind=1,1
```

24.59 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,8,24)); lvl=0; h,r-ind=24,72
  [4,3]((0,1,0),(6,10,15),(1,2,4),(3,5,10)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,10),(6,10,17)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,5,8),(1,2,3),(6,10,17)); lvl=2; h,r-ind=1,1
    [4,3]((6,10,15),(3,5,8),(6,11,15),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,8),(8,14,21),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(8,14,21),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(6,11,15),(1,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((6,10,15),(4,7,10),(3,5,8),(8,14,21)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,12,18),(8,14,21),(4,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,15),(7,12,18),(4,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((7,12,18),(3,5,8),(8,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((6,10,15),(7,12,18),(3,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(6,11,15),(1,2,3)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,2,4),(1,2,3),(3,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=2; h,r-ind=1,1
  [6,3]((3,5,13),(5,9,22),(2,3,8),(2,3,7),(1,2,4),(3,5,10)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,4),(4,7,17),(4,7,16),(7,12,29)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,17),(7,12,29),(8,14,33)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,16),(7,12,29),(8,14,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(4,7,16),(8,14,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(4,7,17),(8,14,33)); lvl=3; h,r-ind=1,1
    [6,3]((6,10,25),(2,3,8),(5,8,19),(6,10,23),(4,7,16),(7,12,29)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((3,5,12),(5,8,19),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,25),(3,5,12),(2,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,25),(3,5,12),(7,12,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,12),(6,10,23),(5,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,12),(4,7,16),(6,10,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,12),(7,12,29),(4,7,16)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,13),(6,10,25),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,8),(5,8,19),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,4),(3,5,11),(6,10,23),(4,7,16)); lvl=2; h,r-ind=1,1
      [3,3]((3,5,11),(6,10,23),(7,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,16),(6,10,23),(7,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(4,7,16),(7,12,27)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(3,5,11),(7,12,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,10),(3,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,5,10),(3,5,11)); lvl=2; h,r-ind=1,1
    [4,3]((5,8,19),(2,3,7),(3,5,11),(6,10,23)); lvl=2; h,r-ind=1,1
      [3,3]((8,13,30),(3,5,11),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,19),(8,13,30),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,23),(8,13,30),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,19),(6,10,23),(8,13,30)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,13),(6,10,25),(4,7,17),(7,12,29)); lvl=2; h,r-ind=1,1
      [3,3]((10,17,42),(7,12,29),(6,10,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(10,17,42),(6,10,25)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,17),(10,17,42),(7,12,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,13),(4,7,17),(10,17,42)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(5,9,22),(4,7,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,13),(5,9,22),(4,7,17)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,3),(3,4,12),(2,3,8),(2,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,12),(3,4,11),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,11),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,12),(3,4,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(1,1,3),(3,4,11)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,9),(3,5,13),(3,4,12),(2,3,8)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,13),(4,6,17),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,12),(4,6,17),(2,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(3,4,12),(4,6,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,9),(3,5,13),(4,6,17)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(1,1,3),(2,3,7),(6,10,15),(3,5,10)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,6),(3,5,10),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,8),(2,3,6),(3,4,9),(2,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,15),(2,3,7),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,8),(5,7,15),(2,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(5,7,15),(2,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,8),(3,4,9),(5,7,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,3),(3,4,9),(2,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,3),(1,1,2),(3,4,8),(3,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,8),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(3,4,8),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(3,4,9),(4,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,3),(1,1,2),(4,5,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,3),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,6),(4,6,11),(3,5,10),(6,10,17)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,14),(3,5,9),(6,10,17)); lvl=3; h,r-ind=1,1
      [4,3]((7,11,20),(12,19,35),(5,8,14),(3,5,9)); lvl=3; h,r-ind=1,1
        [3,3]((12,19,35),(10,16,29),(3,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,14),(10,16,29),(3,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((7,11,20),(12,19,35),(10,16,29)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,14),(7,11,20),(10,16,29)); lvl=4; h,r-ind=1,1
      [4,3]((2,3,6),(12,19,35),(3,5,10),(3,5,9)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((5,8,15),(3,5,9),(3,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,6),(5,8,15),(3,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((12,19,35),(5,8,15),(3,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,6),(12,19,35),(5,8,15)); lvl=4; h,r-ind=1,1
      [3,3]((4,6,11),(7,11,20),(5,8,14)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,6),(4,6,11),(7,11,20),(12,19,35)); lvl=3; h,r-ind=1,1
        [3,3]((4,6,11),(9,14,26),(7,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((12,19,35),(9,14,26),(7,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,6),(12,19,35),(9,14,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,6),(4,6,11),(9,14,26)); lvl=4; h,r-ind=1,1
    [4,3]((5,7,13),(3,4,8),(2,3,6),(4,6,11)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,8),(2,3,6),(7,10,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,11),(2,3,6),(7,10,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,13),(3,4,8),(7,10,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,11),(5,7,13),(7,10,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,2),(3,4,7),(5,7,13),(3,4,8)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,7),(5,7,13),(6,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,8),(5,7,13),(6,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(3,4,7),(6,8,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,8),(1,1,2),(6,8,15)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(7,10,15),(1,1,2),(3,4,7)); lvl=2; h,r-ind=1,1
```

```
  [4,3]((1,1,2),(3,4,7),(7,9,15),(12,15,25)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,7),(8,10,17),(7,9,15)); lvl=4; h,r-ind=1,1
    [3,3]((12,15,25),(8,10,17),(7,9,15)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(12,15,25),(8,10,17)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,7),(8,10,17)); lvl=4; h,r-ind=1,1
  [5,3]((3,4,6),(4,5,8),(5,7,11),(7,9,15),(12,15,25)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,15),(12,15,25),(11,14,23)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,8),(12,15,25),(11,14,23)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,8),(3,4,6),(17,22,35)); lvl=4; h,r-ind=1,1
    [4,3]((6,8,13),(10,13,21),(7,9,15),(11,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((11,14,23),(10,13,21),(17,22,36)); lvl=5; h,r-ind=1,1
      [3,3]((6,8,13),(10,13,21),(17,22,36)); lvl=5; h,r-ind=1,1
      [3,3]((7,9,15),(6,8,13),(17,22,36)); lvl=5; h,r-ind=1,1
      [3,3]((7,9,15),(11,14,23),(17,22,36)); lvl=5; h,r-ind=1,1
    [4,3]((4,5,8),(17,22,35),(10,13,21),(11,14,23)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((14,18,29),(10,13,21),(17,22,35)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,8),(14,18,29),(17,22,35)); lvl=5; h,r-ind=1,1
      [3,3]((14,18,29),(11,14,23),(10,13,21)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,8),(14,18,29),(11,14,23)); lvl=5; h,r-ind=1,1
    [5,3]((3,4,6),(17,22,35),(5,7,11),(6,8,13),(10,13,21)); lvl=4; h,r-ind=1,1
      [4,3]((9,12,19),(22,29,46),(19,25,40),(6,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((28,37,59),(19,25,40),(22,29,46)); lvl=6; h,r-ind=1,1
        [3,3]((9,12,19),(28,37,59),(22,29,46)); lvl=6; h,r-ind=1,1
        [3,3]((6,8,13),(9,12,19),(28,37,59)); lvl=6; h,r-ind=1,1
        [3,3]((6,8,13),(28,37,59),(19,25,40)); lvl=6; h,r-ind=1,1
      [3,3]((10,13,21),(19,25,40),(6,8,13)); lvl=5; h,r-ind=1,1
      [3,3]((9,12,19),(5,7,11),(6,8,13)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,6),(9,12,19),(5,7,11)); lvl=5; h,r-ind=1,1
      [4,3]((10,13,21),(22,29,46),(13,17,27),(19,25,40)); lvl=5; h,r-ind=1,1
        [3,3]((13,17,27),(32,42,67),(22,29,46)); lvl=6; h,r-ind=1,1
        [3,3]((19,25,40),(32,42,67),(22,29,46)); lvl=6; h,r-ind=1,1
        [3,3]((10,13,21),(13,17,27),(32,42,67)); lvl=6; h,r-ind=1,1
        [3,3]((19,25,40),(10,13,21),(32,42,67)); lvl=6; h,r-ind=1,1
      [3,3]((17,22,35),(10,13,21),(13,17,27)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,6),(22,29,46),(13,17,27)); lvl=5; h,r-ind=1,1
      [3,3]((17,22,35),(3,4,6),(13,17,27)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,6),(9,12,19),(22,29,46)); lvl=5; h,r-ind=1,1
  [5,3]((1,0,0),(1,1,2),(5,6,9),(4,5,8),(12,15,25)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,8),(5,6,10),(12,15,25)); lvl=4; h,r-ind=1,1
    [3,3]((1,1,2),(5,6,10),(12,15,25)); lvl=4; h,r-ind=1,1
    [4,3]((11,13,21),(12,14,23),(4,5,8),(5,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((12,14,23),(5,6,10),(16,19,31)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,8),(5,6,10),(16,19,31)); lvl=5; h,r-ind=1,1
      [3,3]((11,13,21),(12,14,23),(16,19,31)); lvl=5; h,r-ind=1,1
      [3,3]((4,5,8),(11,13,21),(16,19,31)); lvl=5; h,r-ind=1,1
    [4,3]((1,1,2),(8,9,15),(12,14,23),(5,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((8,9,15),(12,14,23),(13,15,25)); lvl=5; h,r-ind=1,1
      [3,3]((5,6,10),(12,14,23),(13,15,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,2),(5,6,10),(13,15,25)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,2),(8,9,15),(13,15,25)); lvl=5; h,r-ind=1,1
    [4,3]((6,7,11),(11,13,21),(5,6,9),(4,5,8)); lvl=4; h,r-ind=1,1
      [3,3]((11,13,21),(10,12,19),(4,5,8)); lvl=5; h,r-ind=1,1
      [3,3]((5,6,9),(10,12,19),(4,5,8)); lvl=5; h,r-ind=1,1
      [3,3]((6,7,11),(11,13,21),(10,12,19)); lvl=5; h,r-ind=1,1
      [3,3]((6,7,11),(5,6,9),(10,12,19)); lvl=5; h,r-ind=1,1
    [3,3]((2,2,3),(6,7,11),(5,6,9)); lvl=4; h,r-ind=1,1
    [5,3]((2,2,3),(8,9,15),(6,7,11),(11,13,21),(12,14,23)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,13),(11,13,21),(12,14,23)); lvl=5; h,r-ind=1,1
      [3,3]((8,9,15),(7,8,13),(12,14,23)); lvl=5; h,r-ind=1,1
      [3,3]((6,7,11),(7,8,13),(11,13,21)); lvl=5; h,r-ind=1,1
      [3,3]((2,2,3),(6,7,11),(7,8,13)); lvl=5; h,r-ind=1,1
      [3,3]((8,9,15),(2,2,3),(7,8,13)); lvl=5; h,r-ind=1,1
    [4,3]((1,1,2),(1,0,0),(2,2,3),(8,9,15)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((3,3,5),(1,0,0),(2,2,3)); lvl=5; h,r-ind=1,1
      [3,3]((8,9,15),(3,3,5),(2,2,3)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,2),(8,9,15),(3,3,5)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,2),(3,3,5),(1,0,0)); lvl=5; h,r-ind=1,1
  [3,3]((3,4,6),(5,6,9),(4,5,8)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,6),(7,10,15),(5,7,11)); lvl=3; h,r-ind=1,1
  [3,3]((5,7,11),(3,4,7),(7,9,15)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
[5,3]((3,5,8),(3,4,7),(5,7,13),(4,6,11),(6,10,17)); lvl=2; h,r-ind=1,1
  [4,3]((5,7,13),(11,16,29),(3,4,7),(2,3,5)); lvl=3; h,r-ind=1,2; alert-r-inc
    [3,3]((2,3,5),(7,10,18),(11,16,29)); lvl=4; h,r-ind=1,1
    [3,3]((5,7,13),(7,10,18),(11,16,29)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,7),(2,3,5),(7,10,18)); lvl=4; h,r-ind=1,1
    [3,3]((5,7,13),(3,4,7),(7,10,18)); lvl=4; h,r-ind=1,1
  [4,3]((5,8,14),(4,6,11),(11,16,29),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,11),(11,16,29),(6,9,16)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,5),(11,16,29),(6,9,16)); lvl=4; h,r-ind=1,1
    [3,3]((5,8,14),(4,6,11),(6,9,16)); lvl=4; h,r-ind=1,1
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      [3,3]((2,3,5),(5,8,14),(6,9,16)); lvl=4; h,r-ind=1,1
    [4,3]((3,5,8),(5,8,14),(6,10,17),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,17),(5,8,14),(8,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(5,8,14),(8,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,8),(6,10,17),(8,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(3,5,8),(8,13,22)); lvl=4; h,r-ind=1,1
    [3,3]((4,6,11),(5,7,13),(11,16,29)); lvl=3; h,r-ind=1,1
  [4,3]((6,10,15),(3,5,8),(7,10,15),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,11),(3,4,7),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,9),(5,7,11),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((9,14,21),(4,6,9),(2,3,5)); lvl=3; h,r-ind=1,1
    [4,3]((6,10,15),(9,14,21),(3,5,8),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,8,12),(10,16,25)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,8),(6,10,15),(5,8,12),(10,16,25)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((8,13,20),(6,10,15),(5,8,12)); lvl=5; h,r-ind=1,1
        [3,3]((10,16,25),(8,13,20),(5,8,12)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,8),(10,16,25),(8,13,20)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,8),(8,13,20),(6,10,15)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,8),(2,3,5),(10,16,25)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(9,14,21),(5,8,12)); lvl=4; h,r-ind=1,1
    [3,3]((7,10,15),(4,6,9),(5,7,11)); lvl=3; h,r-ind=1,1
[4,3]((15,28,69),(5,9,22),(0,1,0),(1,2,4)); lvl=1; h,r-ind=1,1
  [3,3]((2,4,9),(5,9,22),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,4,9),(0,1,0),(1,2,4)); lvl=2; h,r-ind=1,1
  [3,3]((15,29,69),(2,4,9),(0,1,0)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((2,4,9),(5,9,22),(13,24,59)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((7,13,32),(2,4,9),(13,24,59)); lvl=2; h,r-ind=1,1
  [4,3]((7,13,32),(15,28,69),(15,29,69),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,9),(10,19,46),(15,29,69)); lvl=3; h,r-ind=1,1
    [3,3]((19,36,87),(2,4,9),(10,19,46)); lvl=3; h,r-ind=1,1
    [4,3]((7,13,32),(19,36,87),(15,28,69),(10,19,46)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((17,32,78),(10,19,46),(19,36,87)); lvl=4; h,r-ind=1,1
      [3,3]((7,13,32),(17,32,78),(19,36,87)); lvl=4; h,r-ind=1,1
      [3,3]((15,28,69),(17,32,78),(10,19,46)); lvl=4; h,r-ind=1,1
      [3,3]((7,13,32),(15,28,69),(17,32,78)); lvl=4; h,r-ind=1,1
    [3,3]((7,13,32),(19,36,87),(2,4,9)); lvl=3; h,r-ind=1,1
[3,3]((5,8,24),(15,28,69),(0,1,0)); lvl=1; h,r-ind=15,15; optimized-h
[5,3]((2,3,9),(5,8,24),(3,5,13),(15,28,69),(5,9,22)); lvl=1; h,r-ind=1,1
  [5,3]((9,16,41),(8,14,37),(12,21,55),(7,13,32),(13,24,59)); lvl=2; h,r-ind=1,1
    [4,3]((5,9,23),(26,46,119),(11,20,50),(9,16,41)); lvl=3; h,r-ind=1,1
      [3,3]((14,25,64),(9,16,41),(26,46,119)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,23),(14,25,64),(26,46,119)); lvl=4; h,r-ind=1,1
      [3,3]((11,20,50),(14,25,64),(9,16,41)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,23),(11,20,50),(14,25,64)); lvl=4; h,r-ind=1,1
    [3,3]((26,46,119),(12,21,55),(9,16,41)); lvl=3; h,r-ind=1,1
    [4,3]((5,9,23),(8,14,37),(26,46,119),(12,21,55)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((17,30,78),(8,14,37),(12,21,55)); lvl=4; h,r-ind=1,1
      [3,3]((26,46,119),(17,30,78),(12,21,55)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,23),(26,46,119),(17,30,78)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,23),(17,30,78),(8,14,37)); lvl=4; h,r-ind=1,1
    [4,3]((5,9,23),(13,24,59),(7,13,32),(11,20,50)); lvl=3; h,r-ind=1,1
      [3,3]((18,33,82),(13,24,59),(7,13,32)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,23),(18,33,82),(7,13,32)); lvl=4; h,r-ind=1,1
      [3,3]((11,20,50),(5,9,23),(18,33,82)); lvl=4; h,r-ind=1,1
      [3,3]((11,20,50),(18,33,82),(13,24,59)); lvl=4; h,r-ind=1,1
  [4,3]((9,16,41),(4,7,18),(5,9,22),(13,24,59)); lvl=2; h,r-ind=1,1
    [4,3]((4,7,18),(6,11,27),(25,45,113),(5,9,22)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((10,18,45),(6,11,27),(25,45,113)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,18),(10,18,45),(25,45,113)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,22),(10,18,45),(6,11,27)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,18),(5,9,22),(10,18,45)); lvl=4; h,r-ind=1,1
    [4,3]((11,20,50),(15,27,68),(6,11,27),(25,45,113)); lvl=3; h,r-ind=1,1
      [3,3]((21,38,95),(15,27,68),(25,45,113)); lvl=4; h,r-ind=1,1
      [3,3]((6,11,27),(21,38,95),(25,45,113)); lvl=4; h,r-ind=1,1
      [3,3]((11,20,50),(6,11,27),(21,38,95)); lvl=4; h,r-ind=1,1
      [3,3]((11,20,50),(21,38,95),(15,27,68)); lvl=4; h,r-ind=1,1
    [4,3]((9,16,41),(4,7,18),(15,27,68),(25,45,113)); lvl=3; h,r-ind=1,1
      [3,3]((15,27,68),(25,45,113),(19,34,86)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,18),(25,45,113),(19,34,86)); lvl=4; h,r-ind=1,1
      [3,3]((9,16,41),(15,27,68),(19,34,86)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,18),(9,16,41),(19,34,86)); lvl=4; h,r-ind=1,1
    [3,3]((13,24,59),(11,20,50),(6,11,27)); lvl=3; h,r-ind=1,1
    [3,3]((9,16,41),(11,20,50),(15,27,68)); lvl=3; h,r-ind=1,1
  [3,3]((4,7,18),(5,9,22),(3,5,13)); lvl=2; h,r-ind=1,1
  [4,3]((6,10,27),(4,7,18),(7,12,32),(3,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((10,17,45),(4,7,18),(7,12,32)); lvl=3; h,r-ind=1,1
    [3,3]((6,10,27),(10,17,45),(7,12,32)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,13),(6,10,27),(10,17,45)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,13),(10,17,45),(4,7,18)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,9),(6,10,27),(3,5,13)); lvl=2; h,r-ind=1,1
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[4,3]((20,36,93),(8,14,37),(15,28,69),(7,13,32)); lvl=2; h,r-ind=1,1
  [4,3]((15,28,69),(24,44,111),(5,9,23),(7,13,32)); lvl=3; h,r-ind=1,1
    [3,3]((13,24,60),(25,46,115),(5,9,23)); lvl=4; h,r-ind=1,1
    [3,3]((7,13,32),(25,46,115),(5,9,23)); lvl=4; h,r-ind=1,1
    [3,3]((13,24,60),(24,44,111),(5,9,23)); lvl=4; h,r-ind=1,1
    [4,3]((15,28,69),(7,13,32),(13,24,60),(25,46,115)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((20,37,92),(7,13,32),(25,46,115)); lvl=5; h,r-ind=1,1
      [3,3]((20,37,92),(13,24,60),(25,46,115)); lvl=5; h,r-ind=1,1
      [3,3]((15,28,69),(20,37,92),(13,24,60)); lvl=5; h,r-ind=1,1
      [3,3]((15,28,69),(20,37,92),(7,13,32)); lvl=5; h,r-ind=1,1
  [3,3]((11,20,51),(24,44,111),(5,9,23)); lvl=3; h,r-ind=1,1
  [3,3]((14,25,65),(11,20,51),(5,9,23)); lvl=3; h,r-ind=1,1
  [3,3]((14,25,65),(8,14,37),(5,9,23)); lvl=3; h,r-ind=1,1
  [3,3]((20,36,93),(14,25,65),(11,20,51)); lvl=3; h,r-ind=1,1
[4,3]((7,12,32),(3,5,14),(8,14,37),(12,21,55)); lvl=2; h,r-ind=1,1
  [3,3]((15,26,69),(8,14,37),(3,5,14)); lvl=3; h,r-ind=1,1
  [3,3]((7,12,32),(15,26,69),(3,5,14)); lvl=3; h,r-ind=1,1
  [3,3]((12,21,55),(15,26,69),(8,14,37)); lvl=3; h,r-ind=1,1
  [3,3]((7,12,32),(12,21,55),(15,26,69)); lvl=3; h,r-ind=1,1
[4,3]((2,3,9),(6,10,27),(7,12,32),(3,5,14)); lvl=2; h,r-ind=1,1
  [3,3]((7,12,32),(6,10,27),(9,15,41)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,9),(6,10,27),(9,15,41)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,14),(2,3,9),(9,15,41)); lvl=3; h,r-ind=1,1
  [3,3]((3,5,14),(7,12,32),(9,15,41)); lvl=3; h,r-ind=1,1
[4,3]((5,8,24),(20,36,93),(3,5,14),(8,14,37)); lvl=2; h,r-ind=1,1
  [4,3]((3,5,14),(35,61,163),(20,35,93),(8,14,37)); lvl=3; h,r-ind=1,1
    [3,3]((35,61,163),(23,40,107),(20,35,93)); lvl=4; h,r-ind=1,1
    [3,3]((8,14,37),(23,40,107),(20,35,93)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,14),(8,14,37),(23,40,107)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,14),(35,61,163),(23,40,107)); lvl=4; h,r-ind=1,1
  [3,3]((14,25,65),(20,35,93),(8,14,37)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((12,21,56),(9,16,42),(14,25,65),(35,61,163),(20,35,93)); lvl=3; h,r-ind=1,1
    [4,3]((29,51,135),(17,30,79),(20,35,93),(32,56,149)); lvl=4; h,r-ind=1,1
      [3,3]((17,30,79),(20,35,93),(49,86,228)); lvl=5; h,r-ind=1,1
      [3,3]((32,56,149),(20,35,93),(49,86,228)); lvl=5; h,r-ind=1,1
      [3,3]((29,51,135),(17,30,79),(49,86,228)); lvl=5; h,r-ind=1,1
      [3,3]((32,56,149),(29,51,135),(49,86,228)); lvl=5; h,r-ind=1,1
    [3,3]((35,61,163),(20,35,93),(32,56,149)); lvl=4; h,r-ind=1,1
    [3,3]((12,21,56),(35,61,163),(32,56,149)); lvl=4; h,r-ind=1,1
    [4,3]((12,21,56),(50,88,233),(29,51,135),(32,56,149)); lvl=4; h,r-ind=1,2; alert-r-inc
      [3,3]((29,51,135),(50,88,233),(41,72,191)); lvl=5; h,r-ind=1,1
      [3,3]((12,21,56),(50,88,233),(41,72,191)); lvl=5; h,r-ind=1,1
      [3,3]((32,56,149),(29,51,135),(41,72,191)); lvl=5; h,r-ind=1,1
      [3,3]((12,21,56),(32,56,149),(41,72,191)); lvl=5; h,r-ind=1,1
    [3,3]((9,16,42),(12,21,56),(50,88,233)); lvl=4; h,r-ind=1,1
    [5,3]((9,16,42),(50,88,233),(29,51,135),(14,25,65),(17,30,79)); lvl=4; h,r-ind=1,1
      [4,3]((26,46,121),(55,97,256),(64,113,298),(17,30,79)); lvl=5; h,r-ind=1,1
        [3,3]((81,143,377),(55,97,256),(64,113,298)); lvl=6; h,r-ind=1,1
        [3,3]((26,46,121),(81,143,377),(64,113,298)); lvl=6; h,r-ind=1,1
        [3,3]((81,143,377),(17,30,79),(55,97,256)); lvl=6; h,r-ind=1,1
        [3,3]((26,46,121),(81,143,377),(17,30,79)); lvl=6; h,r-ind=1,1
      [3,3]((14,25,65),(26,46,121),(17,30,79)); lvl=5; h,r-ind=1,1
      [3,3]((9,16,42),(14,25,65),(26,46,121)); lvl=5; h,r-ind=1,1
      [3,3]((9,16,42),(26,46,121),(64,113,298)); lvl=5; h,r-ind=1,1
      [3,3]((29,51,135),(55,97,256),(17,30,79)); lvl=5; h,r-ind=1,1
      [4,3]((38,67,177),(29,51,135),(55,97,256),(64,113,298)); lvl=5; h,r-ind=1,1
        [3,3]((29,51,135),(55,97,256),(93,164,433)); lvl=6; h,r-ind=1,1
        [3,3]((64,113,298),(55,97,256),(93,164,433)); lvl=6; h,r-ind=1,1
        [3,3]((38,67,177),(29,51,135),(93,164,433)); lvl=6; h,r-ind=1,1
        [3,3]((64,113,298),(38,67,177),(93,164,433)); lvl=6; h,r-ind=1,1
      [3,3]((9,16,42),(38,67,177),(64,113,298)); lvl=5; h,r-ind=1,1
      [3,3]((50,88,233),(38,67,177),(29,51,135)); lvl=5; h,r-ind=1,1
      [3,3]((9,16,42),(50,88,233),(38,67,177)); lvl=5; h,r-ind=1,1
  [5,3]((3,5,14),(5,8,24),(16,28,75),(12,21,56),(35,61,163)); lvl=3; h,r-ind=1,1
    [4,3]((3,5,14),(7,12,33),(25,43,117),(5,8,24)); lvl=4; h,r-ind=1,3; alert-r-inc
      [3,3]((10,17,47),(7,12,33),(25,43,117)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,14),(10,17,47),(25,43,117)); lvl=5; h,r-ind=1,1
      [3,3]((5,8,24),(10,17,47),(7,12,33)); lvl=5; h,r-ind=1,1
      [3,3]((3,5,14),(5,8,24),(10,17,47)); lvl=5; h,r-ind=1,1
    [5,3]((7,12,33),(19,33,89),(34,59,159),(25,43,117),(37,64,173)); lvl=4; h,r-ind=1,1
      [3,3]((22,38,103),(34,59,159),(37,64,173)); lvl=5; h,r-ind=1,1
      [3,3]((25,43,117),(22,38,103),(37,64,173)); lvl=5; h,r-ind=1,1
      [3,3]((7,12,33),(25,43,117),(22,38,103)); lvl=5; h,r-ind=1,1
      [3,3]((19,33,89),(22,38,103),(34,59,159)); lvl=5; h,r-ind=1,1
      [3,3]((7,12,33),(19,33,89),(22,38,103)); lvl=5; h,r-ind=1,1
    [3,3]((16,28,75),(7,12,33),(19,33,89)); lvl=4; h,r-ind=1,1
    [4,3]((16,28,75),(19,33,89),(34,59,159),(12,21,56)); lvl=4; h,r-ind=1,1
      [3,3]((31,54,145),(19,33,89),(34,59,159)); lvl=5; h,r-ind=1,1
      [3,3]((12,21,56),(31,54,145),(34,59,159)); lvl=5; h,r-ind=1,1
      [3,3]((16,28,75),(31,54,145),(19,33,89)); lvl=5; h,r-ind=1,1
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          [3,3]((12,21,56),(16,28,75),(31,54,145)); lvl=5; h,r-ind=1,1
        [4,3]((34,59,159),(15,26,70),(37,64,173),(12,21,56)); lvl=4; h,r-ind=1,1
          [3,3]((37,64,173),(15,26,70),(49,85,229)); lvl=5; h,r-ind=1,1
          [3,3]((12,21,56),(15,26,70),(49,85,229)); lvl=5; h,r-ind=1,1
          [3,3]((34,59,159),(37,64,173),(49,85,229)); lvl=5; h,r-ind=1,1
          [3,3]((12,21,56),(34,59,159),(49,85,229)); lvl=5; h,r-ind=1,1
        [3,3]((35,61,163),(15,26,70),(12,21,56)); lvl=4; h,r-ind=1,1
        [4,3]((3,5,14),(15,26,70),(25,43,117),(37,64,173)); lvl=4; h,r-ind=1,1
          [3,3]((15,26,70),(37,64,173),(40,69,187)); lvl=5; h,r-ind=1,1
          [3,3]((25,43,117),(37,64,173),(40,69,187)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,14),(25,43,117),(40,69,187)); lvl=5; h,r-ind=1,1
          [3,3]((3,5,14),(15,26,70),(40,69,187)); lvl=5; h,r-ind=1,1
        [3,3]((3,5,14),(35,61,163),(15,26,70)); lvl=4; h,r-ind=1,1
      [3,3]((16,28,75),(12,21,56),(9,16,42)); lvl=3; h,r-ind=1,1
      [3,3]((20,36,93),(9,16,42),(14,25,65)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,9),(5,8,24),(3,5,14)); lvl=2; h,r-ind=1,1
    [4,3]((9,16,41),(4,7,18),(7,12,32),(12,21,55)); lvl=2; h,r-ind=1,1
      [3,3]((16,28,73),(7,12,32),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((9,16,41),(16,28,73),(4,7,18)); lvl=3; h,r-ind=1,1
      [3,3]((12,21,55),(9,16,41),(16,28,73)); lvl=3; h,r-ind=1,1
      [3,3]((12,21,55),(16,28,73),(7,12,32)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(6,10,15)); lvl=1; h,r-ind=15,15; optimized-h
```

24.60 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,10,24)); lvl=0; h,r-ind=24,288
  [4,3]((6,11,26),(4,7,16),(5,10,23),(4,8,19)); lvl=1; h,r-ind=1,1
    [3,3]((3,6,14),(4,7,16),(5,10,23)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,21),(3,6,14),(4,7,16)); lvl=2; h,r-ind=1,1
    [4,3]((6,11,26),(5,9,21),(4,8,19),(3,6,14)); lvl=2; h,r-ind=1,1
      [3,3]((3,6,14),(4,8,19),(9,17,40)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,26),(4,8,19),(9,17,40)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,21),(6,11,26),(9,17,40)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,21),(3,6,14),(9,17,40)); lvl=3; h,r-ind=1,1
  [4,3]((5,10,24),(3,5,12),(6,11,26),(4,8,19)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,12),(7,13,31),(6,11,26)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,19),(7,13,31),(6,11,26)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,24),(4,8,19),(7,13,31)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,24),(3,5,12),(7,13,31)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(3,5,12),(6,11,26),(4,7,16),(3,4,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,7),(4,7,16),(5,9,21)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(6,11,26),(5,9,21)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,12),(2,3,7),(6,11,26)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,7),(3,4,9),(4,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,3,7),(3,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,12),(1,0,0),(2,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,4,9),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,10,23),(4,8,19)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,10,24),(0,1,0),(4,8,19)); lvl=1; h,r-ind=1,1
  [4,3]((4,7,16),(2,3,6),(5,10,23),(1,2,3)); lvl=1; h,r-ind=4,2
    [4,3]((3,5,11),(2,3,6),(1,2,4),(3,6,13)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,15),(2,3,6),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,13),(4,7,15),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(3,6,13),(4,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(4,7,15),(2,3,6)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,16),(3,5,11),(2,4,9),(3,6,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,9),(3,6,13),(5,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(3,6,13),(5,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,16),(2,4,9),(5,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,11),(4,7,16),(5,9,20)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,16),(5,10,23),(2,4,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,3),(1,2,4)); lvl=2; h,r-ind=1,1
  [4,3]((4,7,16),(3,4,9),(1,1,2),(2,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,9),(1,1,2),(6,9,20)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,6),(3,5,11),(1,1,2),(6,9,20)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,6,13),(3,5,11),(6,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(4,6,13),(6,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(4,6,13),(3,5,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,6),(4,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,16),(3,5,11),(6,9,20)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((4,7,16),(3,4,9),(6,9,20)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((2,2,3),(2,4,5),(1,1,2),(2,3,6),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((6,9,14),(2,3,5),(5,8,12),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(1,2,3),(7,11,17)); lvl=3; h,r-ind=1,1
```

```
    [4,3]((2,4,5),(3,5,7),(5,8,12),(1,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,6),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(5,7,11),(6,9,14),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,7,11),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,1,2),(7,10,16)); lvl=3; h,r-ind=1,1
    [6,3]((2,3,4),(3,5,7),(5,7,11),(3,4,6),(6,9,14),(5,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((4,6,9),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,6,9),(6,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(3,5,7),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(5,8,12),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(6,9,14),(5,8,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(2,3,4),(3,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(1,1,2),(5,7,11),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,8),(5,7,11),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(3,4,6),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,0,0),(2,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,4),(1,1,1),(2,3,3),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,2,3),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(2,3,4),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(5,10,23),(1,2,3)); lvl=1; h,r-ind=8,8; optimized-h
```

24.61 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,11,24)); lvl=0; h,r-ind=24,576
  [3,3]((1,2,3),(2,3,6),(1,2,4)); lvl=1; h,r-ind=1,1
  [4,3]((5,9,19),(4,8,17),(2,3,6),(1,2,4)); lvl=1; h,r-ind=1,1
    [3,3]((4,8,17),(1,2,4),(6,11,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,4),(6,11,23)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,19),(4,8,17),(6,11,23)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(5,9,19),(6,11,23)); lvl=2; h,r-ind=1,1
  [4,3]((6,13,28),(5,11,23),(4,8,17),(1,2,4)); lvl=1; h,r-ind=1,1
    [3,3]((7,15,32),(4,8,17),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,23),(7,15,32),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,28),(5,11,23),(7,15,32)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,28),(7,15,32),(4,8,17)); lvl=2; h,r-ind=1,1
  [4,3]((5,9,19),(4,7,15),(3,6,13),(4,8,17)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,15),(3,6,13),(8,15,32)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,17),(3,6,13),(8,15,32)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,19),(4,7,15),(8,15,32)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,17),(5,9,19),(8,15,32)); lvl=2; h,r-ind=1,1
  [4,3]((5,11,24),(6,13,28),(3,6,13),(4,8,17)); lvl=1; h,r-ind=1,1
    [3,3]((4,8,17),(3,6,13),(9,19,41)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,24),(3,6,13),(9,19,41)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,28),(5,11,24),(9,19,41)); lvl=2; h,r-ind=1,1
    [3,3]((6,13,28),(4,8,17),(9,19,41)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,3),(5,12,23),(1,2,4)); lvl=1; h,r-ind=1,2
    [4,3]((2,5,9),(2,5,8),(3,8,13),(1,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,8),(3,8,13),(4,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(3,8,13),(4,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,9),(4,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,8),(4,10,17)); lvl=3; h,r-ind=1,1
    [3,3]((5,12,23),(2,5,9),(1,2,4)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((0,1,0),(2,5,9),(3,8,13)); lvl=2; h,r-ind=1,1
    [3,3]((5,12,23),(0,1,0),(2,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,5,8),(1,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,3),(2,5,8)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((0,1,0),(2,5,8),(3,8,13)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
  [4,3]((5,11,23),(3,7,14),(5,12,23),(1,2,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,14),(5,12,23),(4,9,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(5,12,23),(4,9,18)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,23),(3,7,14),(4,9,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,4),(5,11,23),(4,9,18)); lvl=2; h,r-ind=1,1
  [4,3]((5,11,24),(6,13,28),(5,11,23),(3,7,14)); lvl=1; h,r-ind=1,1
    [3,3]((6,13,28),(5,11,23),(15,33,70)); lvl=2; h,r-ind=1,1
    [4,3]((4,9,19),(3,7,14),(5,11,23),(15,33,70)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((9,20,42),(5,11,23),(3,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,19),(9,20,42),(3,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((15,33,70),(9,20,42),(5,11,23)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,19),(15,33,70),(9,20,42)); lvl=3; h,r-ind=1,1
    [4,3]((5,11,24),(4,9,19),(6,13,28),(15,33,70)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,9,19),(15,33,70),(10,22,47)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,28),(15,33,70),(10,22,47)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,24),(4,9,19),(10,22,47)); lvl=3; h,r-ind=1,1
      [3,3]((6,13,28),(5,11,24),(10,22,47)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(3,7,14),(5,12,23)); lvl=1; h,r-ind=1,1
  [3,3]((5,11,24),(0,1,0),(3,7,14)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((1,2,3),(2,4,5),(1,1,2),(2,2,3),(2,3,6)); lvl=1; h,r-ind=1,1
    [6,3]((5,8,12),(6,9,14),(5,7,11),(3,5,7),(2,3,4),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,6,9),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(5,7,11),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(4,6,9),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(3,5,7),(4,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(5,8,12),(4,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(3,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((5,7,11),(2,2,3),(1,1,2),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,8),(2,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,5,8),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(3,4,6),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(4,5,8),(3,4,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,5),(6,9,14),(5,7,11),(1,1,2)); lvl=2; h,r-ind=1,1
      [3,3]((5,7,11),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,5),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,7,11),(7,10,16)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(2,3,6),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(5,8,12),(2,3,5),(6,9,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,12),(6,9,14),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(7,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(7,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,5,7),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(5,8,12),(2,4,5),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((5,8,12),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(4,7,10),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,8,12),(4,7,10)); lvl=3; h,r-ind=1,1
  [4,3]((5,9,19),(4,7,15),(1,1,2),(2,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,15),(1,1,2),(6,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,1,2),(6,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,19),(4,7,15),(6,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(5,9,19),(6,10,21)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,4,5),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,5),(2,3,4),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(2,3,4),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(2,3,4),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,5),(2,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((4,7,15),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((4,7,15),(3,6,13),(1,0,0)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((5,11,24),(3,6,13),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(2,4,5)); lvl=1; h,r-ind=1,1
```

24.62 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,12,24)); lvl=0; h,r-ind=24,48
  [4,3]((1,0,0),(2,3,6),(2,5,5),(1,2,3)); lvl=1; h,r-ind=1,1
    [5,3]((2,5,5),(1,2,2),(1,2,3),(6,10,15),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,7,10),(6,10,15),(3,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((5,9,12),(4,7,10),(6,11,15),(3,5,7)); lvl=3; h,r-ind=1,1
        [3,3]((6,11,15),(4,7,10),(9,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,7),(4,7,10),(9,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,12),(3,5,7),(9,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,12),(6,11,15),(9,16,22)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(5,9,12),(3,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,2),(5,9,12),(6,11,15),(2,4,5)); lvl=3; h,r-ind=1,1
        [3,3]((5,9,12),(6,11,15),(7,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(6,11,15),(7,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,4,5),(7,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(5,9,12),(7,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(1,2,3),(6,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(6,11,15),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,15),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
    [5,3]((2,3,4),(1,1,2),(2,3,5),(6,10,15),(3,5,7)); lvl=2; h,r-ind=1,1
      [5,3]((2,3,4),(6,9,14),(9,14,21),(1,1,2),(7,11,16)); lvl=3; h,r-ind=1,1
        [3,3]((9,14,21),(4,6,9),(7,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(4,6,9),(7,11,16)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(9,14,21),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(1,1,2),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(1,1,2),(4,6,9)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,7),(5,8,12),(9,14,21),(7,11,16)); lvl=3; h,r-ind=1,1
        [3,3]((5,8,12),(12,19,28),(9,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((7,11,16),(12,19,28),(9,14,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,7),(5,8,12),(12,19,28)); lvl=4; h,r-ind=1,1
        [3,3]((7,11,16),(3,5,7),(12,19,28)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,7),(7,11,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(6,10,15),(5,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(6,9,14),(1,1,2)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,5),(5,8,12),(6,9,14),(9,14,21)); lvl=3; h,r-ind=1,1
        [3,3]((9,14,21),(5,8,12),(11,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(5,8,12),(11,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(2,3,5),(11,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,14),(9,14,21),(11,17,26)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(6,10,15),(5,8,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(2,3,3),(2,3,4),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,3),(3,5,6),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(3,5,6),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,5,7),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(3,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,0),(2,3,3),(2,3,4),(1,1,2)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,1),(2,3,3),(2,3,4),(4,5,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(2,3,3),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,7),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(4,5,7),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(2,3,4),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,1,1),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,6),(2,3,5),(1,2,3),(6,10,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(6,10,15),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(6,10,15),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,6),(2,3,5),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,6),(3,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
  [7,3]((1,2,4),(2,5,9),(1,3,3),(2,6,9),(5,14,23),(2,5,5),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((6,15,26),(2,5,9),(1,2,4)); lvl=2; h,r-ind=1,1
    [6,3]((2,5,7),(1,3,4),(3,8,13),(6,15,26),(4,9,14),(1,2,4)); lvl=2; h,r-ind=1,1
      [4,3]((3,8,13),(5,13,21),(6,15,25),(4,10,17)); lvl=3; h,r-ind=1,1
        [3,3]((6,15,25),(5,13,21),(9,23,38)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,13),(5,13,21),(9,23,38)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,17),(3,8,13),(9,23,38)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,17),(6,15,25),(9,23,38)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(6,15,25),(4,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((6,15,26),(3,8,13),(4,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,4),(6,15,26),(4,10,17)); lvl=3; h,r-ind=1,1
```

```
      [4,3]((1,3,4),(2,5,8),(5,13,21),(6,15,25)); lvl=3; h,r-ind=1,1
        [3,3]((2,5,8),(6,15,25),(7,18,29)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,21),(6,15,25),(7,18,29)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(2,5,8),(7,18,29)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,21),(1,3,4),(7,18,29)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,4),(2,5,8),(6,15,25)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,19),(1,2,4),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,19),(3,7,11),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,14),(3,7,11),(1,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(4,9,14),(3,7,11)); lvl=3; h,r-ind=1,1
      [4,3]((2,5,7),(4,10,15),(5,12,19),(3,7,11)); lvl=3; h,r-ind=1,1
        [3,3]((7,17,26),(5,12,19),(4,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,5,7),(7,17,26),(4,10,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,11),(2,5,7),(7,17,26)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,11),(7,17,26),(5,12,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,13),(1,3,4),(5,13,21)); lvl=3; h,r-ind=1,1
      [4,3]((4,10,15),(5,12,19),(1,3,4),(2,5,8)); lvl=3; h,r-ind=1,1
        [3,3]((6,15,23),(5,12,19),(2,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,3,4),(6,15,23),(2,5,8)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,15),(1,3,4),(6,15,23)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,15),(6,15,23),(5,12,19)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,7),(4,10,15),(1,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(4,9,14),(1,2,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,6),(2,5,7),(1,2,3),(4,9,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,5,7),(4,9,14),(3,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,9,14),(3,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(2,5,7),(3,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,6),(3,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,5,5),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(2,5,6),(2,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(2,5,6),(2,5,7),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,6),(2,5,7),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,5,6),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,3,3),(3,8,10)); lvl=3; h,r-ind=1,1
    [4,3]((3,8,13),(6,15,26),(4,11,18),(2,5,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,13,22),(6,15,26),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,18),(5,13,22),(2,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,13),(4,11,18),(5,13,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,13),(5,13,22),(6,15,26)); lvl=3; h,r-ind=1,1
    [3,3]((4,11,18),(5,14,23),(2,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(4,11,18),(5,14,23)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,4),(3,8,13),(2,6,9),(4,11,18)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,13),(4,11,18),(5,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,9),(4,11,18),(5,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,9),(5,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,8,13),(5,14,22)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,4),(4,9,18),(2,5,9)); lvl=1; h,r-ind=1,1
  [4,3]((5,12,24),(4,9,18),(2,5,9),(5,14,23)); lvl=1; h,r-ind=1,1
    [4,3]((4,9,18),(5,12,23),(2,5,9),(15,37,69)); lvl=2; h,r-ind=1,1
      [3,3]((7,17,32),(5,12,23),(15,37,69)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(7,17,32),(15,37,69)); lvl=3; h,r-ind=1,1
      [3,3]((4,9,18),(7,17,32),(5,12,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(4,9,18),(7,17,32)); lvl=3; h,r-ind=1,1
    [5,3]((3,8,14),(8,20,37),(5,14,23),(2,5,9),(15,37,69)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,9),(15,38,69),(10,25,46)); lvl=3; h,r-ind=1,1
      [4,3]((8,20,37),(13,33,60),(15,38,69),(10,25,46)); lvl=3; h,r-ind=1,1
        [3,3]((23,58,106),(15,38,69),(13,33,60)); lvl=4; h,r-ind=1,1
        [3,3]((8,20,37),(23,58,106),(13,33,60)); lvl=4; h,r-ind=1,1
        [3,3]((10,25,46),(23,58,106),(15,38,69)); lvl=4; h,r-ind=1,1
        [3,3]((8,20,37),(10,25,46),(23,58,106)); lvl=4; h,r-ind=1,1
      [3,3]((3,8,14),(8,20,37),(13,33,60)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(15,37,69),(10,25,46)); lvl=3; h,r-ind=1,1
      [3,3]((8,20,37),(15,37,69),(10,25,46)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,9),(5,13,23),(15,38,69)); lvl=3; h,r-ind=1,1
      [4,3]((3,8,14),(13,33,60),(5,13,23),(15,38,69)); lvl=3; h,r-ind=1,1
        [3,3]((13,33,60),(15,38,69),(18,46,83)); lvl=4; h,r-ind=1,1
        [3,3]((5,13,23),(15,38,69),(18,46,83)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,14),(5,13,23),(18,46,83)); lvl=4; h,r-ind=1,1
        [3,3]((3,8,14),(13,33,60),(18,46,83)); lvl=4; h,r-ind=1,1
      [3,3]((5,14,23),(2,5,9),(5,13,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,14),(5,14,23),(5,13,23)); lvl=3; h,r-ind=1,1
    [5,3]((3,7,14),(6,15,28),(8,20,37),(5,12,23),(15,37,69)); lvl=2; h,r-ind=1,1
      [3,3]((13,32,60),(8,20,37),(15,37,69)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,23),(13,32,60),(15,37,69)); lvl=3; h,r-ind=1,1
      [4,3]((24,59,111),(16,39,74),(5,12,23),(13,32,60)); lvl=3; h,r-ind=1,1
        [3,3]((5,12,23),(16,39,74),(29,71,134)); lvl=4; h,r-ind=1,1
        [3,3]((24,59,111),(16,39,74),(29,71,134)); lvl=4; h,r-ind=1,1
        [3,3]((13,32,60),(24,59,111),(29,71,134)); lvl=4; h,r-ind=1,1
        [3,3]((13,32,60),(5,12,23),(29,71,134)); lvl=4; h,r-ind=1,1
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      [3,3]((3,7,14),(16,39,74),(5,12,23)); lvl=3; h,r-ind=1,1
      [4,3]((24,59,111),(19,47,88),(13,32,60),(8,20,37)); lvl=3; h,r-ind=1,1
        [3,3]((8,20,37),(19,47,88),(32,79,148)); lvl=4; h,r-ind=1,1
        [3,3]((24,59,111),(19,47,88),(32,79,148)); lvl=4; h,r-ind=1,1
        [3,3]((13,32,60),(24,59,111),(32,79,148)); lvl=4; h,r-ind=1,1
        [3,3]((13,32,60),(8,20,37),(32,79,148)); lvl=4; h,r-ind=1,1
      [3,3]((6,15,28),(19,47,88),(8,20,37)); lvl=3; h,r-ind=1,1
      [5,3]((6,15,28),(3,7,14),(24,59,111),(16,39,74),(19,47,88)); lvl=3; h,r-ind=1,1
        [3,3]((16,39,74),(11,27,51),(3,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((6,15,28),(11,27,51),(3,7,14)); lvl=4; h,r-ind=1,1
        [3,3]((16,39,74),(11,27,51),(24,59,111)); lvl=4; h,r-ind=1,1
        [3,3]((19,47,88),(11,27,51),(24,59,111)); lvl=4; h,r-ind=1,1
        [3,3]((6,15,28),(19,47,88),(11,27,51)); lvl=4; h,r-ind=1,1
    [4,3]((3,8,14),(7,18,33),(6,15,28),(8,20,37)); lvl=2; h,r-ind=1,1
      [3,3]((7,18,33),(9,23,42),(6,15,28)); lvl=3; h,r-ind=1,1
      [3,3]((8,20,37),(9,23,42),(6,15,28)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,14),(8,20,37),(9,23,42)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,14),(7,18,33),(9,23,42)); lvl=3; h,r-ind=1,1
    [4,3]((5,12,24),(3,7,14),(7,18,33),(6,15,28)); lvl=2; h,r-ind=1,1
      [3,3]((13,32,61),(6,15,28),(3,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,19),(13,32,61),(3,7,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,19),(5,12,24),(3,7,14)); lvl=3; h,r-ind=1,1
      [4,3]((4,10,19),(13,32,61),(7,18,33),(6,15,28)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((10,25,47),(6,15,28),(13,32,61)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,19),(10,25,47),(13,32,61)); lvl=4; h,r-ind=1,1
        [3,3]((7,18,33),(10,25,47),(6,15,28)); lvl=4; h,r-ind=1,1
        [3,3]((4,10,19),(7,18,33),(10,25,47)); lvl=4; h,r-ind=1,1
    [3,3]((3,7,14),(4,9,18),(5,12,23)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(5,12,24),(5,14,23)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((0,1,0),(1,3,3),(2,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,3,3),(2,6,9)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(2,6,9),(5,14,23)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,4),(2,3,6),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,5,5)); lvl=1; h,r-ind=5,5; optimized-h
```

24.63 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,15,24)); lvl=0; h,r-ind=24,192
  [5,3]((1,2,3),(2,5,7),(2,5,5),(1,2,2),(2,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(5,11,14),(6,13,16),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,14),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,16),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(5,11,14),(7,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,3),(7,15,19)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(5,11,13),(6,13,16),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,13),(6,13,16),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(6,13,16),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,11,13),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(7,15,18)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(1,2,2),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,4),(2,4,5)); lvl=2; h,r-ind=1,1
    [6,3]((2,5,6),(3,7,8),(5,11,13),(3,7,9),(5,11,14),(6,13,16)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,11),(5,11,14),(6,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(4,9,11),(6,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(5,11,13),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(4,9,11),(5,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,7,9),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(2,5,6),(4,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,5),(2,5,6),(3,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(2,5,5),(3,7,8),(5,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,7,8),(2,5,5),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,5,5),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(1,2,2),(4,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(3,7,8),(4,9,10)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,7),(3,7,9),(5,11,14)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(4,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,14),(1,2,3),(4,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(2,5,7),(3,7,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(2,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((7,19,29),(1,2,3),(2,5,7)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((7,19,29),(5,14,22),(1,2,3),(2,5,8)); lvl=1; h,r-ind=1,1
    [4,3]((4,11,17),(7,18,28),(5,14,22),(2,5,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,16,25),(2,5,8),(7,18,28)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,17),(6,16,25),(7,18,28)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((5,14,22),(6,16,25),(2,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,17),(5,14,22),(6,16,25)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(7,18,28),(2,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,17),(1,2,3),(7,18,28)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,17),(7,19,29),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(2,5,8)); lvl=1; h,r-ind=1,1
  [4,3]((5,15,24),(5,14,22),(4,12,19),(2,5,8)); lvl=1; h,r-ind=1,1
    [3,3]((6,17,27),(5,14,22),(4,12,19)); lvl=2; h,r-ind=1,1
    [3,3]((5,15,24),(6,17,27),(4,12,19)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,8),(6,17,27),(5,14,22)); lvl=2; h,r-ind=1,1
    [3,3]((5,15,24),(2,5,8),(6,17,27)); lvl=2; h,r-ind=1,1
  [4,3]((7,19,29),(5,15,23),(5,14,22),(4,12,19)); lvl=1; h,r-ind=3,1
    [3,3]((3,9,14),(5,15,23),(6,17,26)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,17),(3,9,14),(6,17,26)); lvl=2; h,r-ind=1,1
    [3,3]((4,11,17),(7,19,29),(6,17,26)); lvl=2; h,r-ind=1,1
    [4,3]((5,14,22),(4,11,17),(4,12,19),(3,9,14)); lvl=2; h,r-ind=1,1
      [3,3]((4,12,19),(3,9,14),(8,23,36)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,17),(3,9,14),(8,23,36)); lvl=3; h,r-ind=1,1
      [3,3]((5,14,22),(4,11,17),(8,23,36)); lvl=3; h,r-ind=1,1
      [3,3]((5,14,22),(4,12,19),(8,23,36)); lvl=3; h,r-ind=1,1
  [5,3]((7,19,29),(5,15,23),(0,1,0),(2,5,7),(2,5,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,7),(1,3,4),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((3,9,13),(1,3,4),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((2,6,9),(3,9,13),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((5,15,23),(2,6,9),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,12),(2,6,9),(3,9,13)); lvl=2; h,r-ind=1,1
    [4,3]((6,17,26),(7,19,29),(3,8,12),(2,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,12),(7,19,29),(9,25,38)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,26),(7,19,29),(9,25,38)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,9),(6,17,26),(9,25,38)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,9),(3,8,12),(9,25,38)); lvl=3; h,r-ind=1,1
    [3,3]((5,15,23),(6,17,26),(2,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,7),(3,8,12),(3,9,13),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,9,13),(3,8,12),(4,11,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(3,8,12),(4,11,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,9,13),(4,11,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,5,7),(4,11,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,3),(2,6,7),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,5),(1,3,3),(0,1,0)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,5),(2,5,6),(1,3,3),(2,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,8,9),(1,3,3),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,8,9),(2,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,5),(3,8,9),(1,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(2,5,5),(3,8,9)); lvl=3; h,r-ind=1,1
    [4,3]((2,5,7),(2,5,6),(2,6,7),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,6),(2,6,7),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,6,7),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(1,3,4),(3,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,7),(2,5,6),(3,8,10)); lvl=3; h,r-ind=1,1
  [3,3]((5,15,23),(4,12,19),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,15,24),(4,12,19),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

24.64 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,16,24)); lvl=0; h,r-ind=24,72
  [5,3]((3,8,12),(1,2,3),(1,3,4),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,5),(2,5,6),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((4,10,13),(3,7,9),(2,5,6),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,2),(3,7,9),(5,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((4,10,13),(3,7,9),(5,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(4,10,13),(5,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(1,2,2),(5,12,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(3,7,9),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(4,10,13),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(1,3,4),(4,10,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,12),(2,5,7),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,8,12),(2,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,5,7),(4,10,13),(3,7,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,7),(4,10,13),(5,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(4,10,13),(5,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,7,9),(5,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,5,7),(5,12,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,3,4),(2,5,5),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,5,5),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,3),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

```
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((5,17,23),(3,10,14),(2,6,9),(3,8,12),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,9,13),(2,6,9),(3,8,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,4),(3,9,13),(3,8,12)); lvl=2; h,r-ind=1,1
    [3,3]((7,22,31),(1,3,4),(3,9,13)); lvl=2; h,r-ind=1,1
    [3,3]((7,22,31),(4,13,18),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((5,17,23),(4,13,18),(1,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((7,22,31),(6,19,27),(3,9,13),(2,6,9)); lvl=2; h,r-ind=1,1
      [3,3]((2,6,9),(3,9,13),(9,28,40)); lvl=3; h,r-ind=1,1
      [3,3]((7,22,31),(3,9,13),(9,28,40)); lvl=3; h,r-ind=1,1
      [3,3]((6,19,27),(7,22,31),(9,28,40)); lvl=3; h,r-ind=1,1
      [3,3]((6,19,27),(2,6,9),(9,28,40)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,14),(6,19,27),(2,6,9)); lvl=2; h,r-ind=1,1
    [4,3]((3,10,14),(7,22,31),(4,13,18),(6,19,27)); lvl=2; h,r-ind=1,1
      [3,3]((10,32,45),(7,22,31),(4,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,14),(10,32,45),(4,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((6,19,27),(10,32,45),(7,22,31)); lvl=3; h,r-ind=1,1
      [3,3]((3,10,14),(6,19,27),(10,32,45)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,14),(5,17,23),(4,13,18)); lvl=2; h,r-ind=1,1
  [3,3]((5,16,24),(3,10,14),(2,6,9)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(5,17,23),(1,3,4),(2,5,5)); lvl=1; h,r-ind=3,9
    [3,3]((2,7,9),(5,17,23),(1,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,9),(4,14,17),(3,10,12),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,12),(4,14,17),(5,17,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,9),(4,14,17),(5,17,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,9),(5,17,21)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,10,12),(5,17,21)); lvl=3; h,r-ind=1,1
    [4,3]((1,3,3),(3,10,12),(3,10,11),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,10,11),(3,10,12),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(3,10,12),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,3,4),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,10,11),(4,13,15)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,5),(1,3,3),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,5,5),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,7,9),(4,14,17),(3,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,9),(3,11,13)); lvl=2; h,r-ind=1,1
    [6,3]((4,14,17),(3,10,12),(3,10,11),(2,7,7),(3,11,13),(1,4,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,7,8),(3,10,11),(3,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,17),(2,7,8),(3,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,14,17),(3,11,13),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,7),(2,7,8),(3,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,4),(2,7,7),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,13),(1,4,4),(2,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(3,11,13),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,7),(1,4,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(3,10,11),(2,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(2,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,9),(5,17,23)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(5,17,23),(3,10,14)); lvl=1; h,r-ind=1,1
  [3,3]((5,16,24),(0,1,0),(3,10,14)); lvl=1; h,r-ind=2,2; optimized-h
```

24.65 Resolved

```
[3,3]((1,0,0),(0,1,0),(5,20,24)); lvl=0; h,r-ind=24,144
  [4,3]((0,1,0),(2,7,8),(2,5,5),(5,20,23)); lvl=1; h,r-ind=3,18
    [3,3]((1,3,3),(2,5,5),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(3,11,12),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,8,9),(3,11,12),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((5,20,23),(2,8,9),(2,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(5,20,23),(2,8,9)); lvl=2; h,r-ind=1,1
    [4,3]((3,12,13),(4,15,16),(2,8,9),(3,11,12)); lvl=2; h,r-ind=1,1
      [3,3]((6,23,25),(3,11,12),(4,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,13),(6,23,25),(4,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,9),(6,23,25),(3,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,13),(2,8,9),(6,23,25)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(3,12,13),(2,8,9)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(2,7,7),(3,12,13),(4,15,16)); lvl=2; h,r-ind=1,4
      [3,3]((1,4,4),(2,7,7),(4,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,13),(1,4,4),(4,15,16)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(3,12,13),(1,4,4)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,4,4),(2,7,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,7),(4,15,16),(1,3,3),(3,11,12)); lvl=2; h,r-ind=1,1
      [3,3]((3,11,12),(4,15,16),(5,18,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,7),(4,15,16),(5,18,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(2,7,7),(5,18,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(3,11,12),(5,18,19)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(2,7,7),(1,3,3)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((0,1,0),(1,3,3),(2,5,5)); lvl=2; h,r-ind=1,1
  [4,3]((4,16,19),(5,17,20),(2,7,8),(5,20,23)); lvl=1; h,r-ind=3,3
    [4,3]((3,11,13),(10,37,43),(2,7,8),(5,17,20)); lvl=2; h,r-ind=1,3
      [3,3]((10,37,43),(5,18,21),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,17,20),(5,18,21),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,13),(10,37,43),(5,18,21)); lvl=3; h,r-ind=1,1
      [3,3]((5,17,20),(3,11,13),(5,18,21)); lvl=3; h,r-ind=1,1
    [4,3]((3,12,14),(10,37,43),(5,20,23),(2,7,8)); lvl=2; h,r-ind=1,3
      [3,3]((10,37,43),(5,19,22),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((5,20,23),(5,19,22),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,12,14),(10,37,43),(5,19,22)); lvl=3; h,r-ind=1,1
      [3,3]((5,20,23),(3,12,14),(5,19,22)); lvl=3; h,r-ind=1,1
    [3,3]((3,11,13),(3,12,14),(10,37,43)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((4,16,19),(3,11,13),(3,12,14)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(4,16,19),(5,20,23)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((5,20,24),(0,1,0),(4,16,19)); lvl=1; h,r-ind=1,1
  [4,3]((5,20,24),(3,10,12),(4,16,19),(5,17,20)); lvl=1; h,r-ind=1,1
    [3,3]((3,10,12),(5,17,20),(3,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,15,18),(3,10,12),(3,11,13)); lvl=2; h,r-ind=1,1
    [4,3]((4,15,18),(5,20,24),(4,16,19),(3,11,13)); lvl=2; h,r-ind=1,1
      [3,3]((8,31,37),(4,16,19),(5,20,24)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,18),(8,31,37),(5,20,24)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,13),(8,31,37),(4,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((4,15,18),(3,11,13),(8,31,37)); lvl=3; h,r-ind=1,1
  [4,3]((5,17,20),(2,7,8),(1,1,1),(2,5,5)); lvl=1; h,r-ind=3,3
    [4,3]((7,22,25),(2,7,8),(2,5,5),(1,2,2)); lvl=2; h,r-ind=1,3
      [3,3]((3,9,10),(2,5,5),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((7,22,25),(3,9,10),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,10),(1,2,2),(2,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((7,22,25),(3,9,10),(1,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((2,6,7),(7,22,25),(1,2,2)); lvl=2; h,r-ind=2,4; alert-r-inc; optimized-h
    [3,3]((2,6,7),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((2,6,7),(5,17,20),(7,22,25),(2,7,8)); lvl=2; h,r-ind=1,3
      [3,3]((2,7,8),(4,13,15),(5,17,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(4,13,15),(5,17,20)); lvl=3; h,r-ind=1,1
      [3,3]((7,22,25),(2,7,8),(4,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,6,7),(7,22,25),(4,13,15)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,5,5)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,0,0),(3,10,12),(5,17,20),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((2,6,7),(3,10,12),(5,17,20)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(2,6,7),(3,10,12)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,5,6),(1,1,1),(2,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,5,6),(2,6,7),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,6,7),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(1,1,1),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,5,6),(3,6,7)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.66 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,7,24)); lvl=0; h,r-ind=24,96
  [3,3]((0,1,0),(1,0,0),(1,1,2)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((1,1,3),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,3),(3,3,10),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((6,7,24),(3,3,10),(1,0,0)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((1,1,3),(0,1,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,12),(1,1,3),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((6,7,24),(3,4,12),(1,1,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((6,7,24),(1,1,3),(3,3,10)); lvl=1; h,r-ind=1,1
```

24.67 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,11,24)); lvl=0; h,r-ind=24,96
  [5,3]((3,4,8),(1,1,2),(2,3,5),(2,3,4),(2,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,5),(6,8,13),(3,4,7),(5,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((8,11,18),(6,8,13),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(8,11,18),(3,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(8,11,18),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(5,7,11),(8,11,18)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,8),(2,3,5),(3,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(4,5,8),(6,8,13),(5,7,11)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,6),(4,5,8),(6,8,13),(14,19,30)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,12,19),(4,5,8),(6,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((14,19,30),(9,12,19),(6,8,13)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((3,4,6),(14,19,30),(9,12,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(9,12,19),(4,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((5,7,11),(6,8,13),(14,19,30)); lvl=3; h,r-ind=1,1
    [4,3]((5,7,11),(2,3,4),(3,4,6),(14,19,30)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,6),(2,3,4),(8,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(2,3,4),(8,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((14,19,30),(3,4,6),(8,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(14,19,30),(8,11,17)); lvl=4; h,r-ind=1,1
  [3,3]((2,3,5),(2,3,4),(5,7,11)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,4),(2,2,3),(4,5,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,1,2),(4,5,8),(6,8,13),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,8),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,7),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(4,5,8),(7,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,7),(1,1,2),(7,9,15)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,8),(1,1,2),(3,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,2),(2,2,3),(4,5,8)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
[4,3]((1,0,0),(0,1,0),(2,3,4),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,4),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((2,2,3),(2,3,4),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
[4,3]((1,2,4),(3,4,8),(2,3,5),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,6),(5,8,14),(3,4,8),(2,3,5)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((5,8,14),(4,6,11),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,8),(4,6,11),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(3,4,8),(4,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(5,8,14),(4,6,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,3),(5,8,14),(2,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,4),(2,3,6),(1,2,3),(5,8,14)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((3,5,9),(2,3,6),(5,8,14)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,9),(1,2,3),(5,8,14)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,9),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(3,5,9),(2,3,6)); lvl=3; h,r-ind=1,1
[4,3]((1,2,4),(3,4,8),(4,7,15),(5,8,17)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,6),(11,18,38),(3,4,8),(5,8,17)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((11,18,38),(7,11,23),(5,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,8),(7,11,23),(5,8,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(3,4,8),(7,11,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(11,18,38),(7,11,23)); lvl=3; h,r-ind=1,1
  [3,3]((4,7,15),(11,18,38),(5,8,17)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,4),(2,3,6),(4,7,15),(11,18,38)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((6,10,21),(11,18,38),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(6,10,21),(2,3,6)); lvl=3; h,r-ind=1,1
    [3,3]((6,10,21),(4,7,15),(11,18,38)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,4),(6,10,21),(4,7,15)); lvl=3; h,r-ind=1,1
[5,3]((3,4,8),(1,1,2),(5,7,15),(8,13,28),(5,8,17)); lvl=1; h,r-ind=1,1
  [3,3]((10,15,32),(5,7,15),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((6,9,19),(15,23,49),(10,15,32),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((16,24,51),(10,15,32),(15,23,49)); lvl=3; h,r-ind=1,1
    [3,3]((6,9,19),(16,24,51),(15,23,49)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(6,9,19),(16,24,51)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(16,24,51),(10,15,32)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,8),(6,9,19),(1,1,2)); lvl=2; h,r-ind=1,1
  [4,3]((6,9,19),(14,22,47),(15,23,49),(5,8,17)); lvl=2; h,r-ind=1,1
    [3,3]((15,23,49),(20,31,66),(14,22,47)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,17),(20,31,66),(14,22,47)); lvl=3; h,r-ind=1,1
    [3,3]((6,9,19),(15,23,49),(20,31,66)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,17),(6,9,19),(20,31,66)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,8),(6,9,19),(5,8,17)); lvl=2; h,r-ind=1,1
  [3,3]((10,15,32),(8,13,28),(5,7,15)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((14,22,47),(15,23,49),(10,15,32),(8,13,28)); lvl=2; h,r-ind=1,1
    [4,3]((15,23,49),(38,59,126),(10,15,32),(9,14,30)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((24,37,79),(9,14,30),(38,59,126)); lvl=4; h,r-ind=1,1
      [3,3]((15,23,49),(24,37,79),(38,59,126)); lvl=4; h,r-ind=1,1
      [3,3]((10,15,32),(24,37,79),(9,14,30)); lvl=4; h,r-ind=1,1
      [3,3]((15,23,49),(10,15,32),(24,37,79)); lvl=4; h,r-ind=1,1
    [4,3]((8,13,28),(14,22,47),(38,59,126),(9,14,30)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((14,22,47),(23,36,77),(38,59,126)); lvl=4; h,r-ind=1,1
      [3,3]((9,14,30),(23,36,77),(38,59,126)); lvl=4; h,r-ind=1,1
      [3,3]((8,13,28),(9,14,30),(23,36,77)); lvl=4; h,r-ind=1,1
      [3,3]((8,13,28),(14,22,47),(23,36,77)); lvl=4; h,r-ind=1,1
    [3,3]((14,22,47),(15,23,49),(38,59,126)); lvl=3; h,r-ind=1,1
  [3,3]((14,22,47),(5,8,17),(8,13,28)); lvl=2; h,r-ind=1,1
[3,3]((1,0,0),(1,1,2),(5,7,15)); lvl=1; h,r-ind=1,1
[4,3]((1,0,0),(6,11,24),(5,7,15),(8,13,28)); lvl=1; h,r-ind=1,1
  [3,3]((4,6,13),(8,13,28),(7,12,26)); lvl=2; h,r-ind=1,1
  [3,3]((4,6,13),(6,11,24),(7,12,26)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,0,0),(4,6,13),(6,11,24)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,13),(5,7,15),(8,13,28)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(4,6,13),(5,7,15)); lvl=2; h,r-ind=1,1
  [4,3]((6,11,24),(8,13,28),(4,7,15),(5,8,17)); lvl=1; h,r-ind=1,1
    [4,3]((7,12,26),(16,27,58),(8,13,28),(5,8,17)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((12,20,43),(5,8,17),(16,27,58)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,26),(12,20,43),(16,27,58)); lvl=3; h,r-ind=1,1
      [3,3]((8,13,28),(12,20,43),(5,8,17)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,26),(8,13,28),(12,20,43)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,15),(16,27,58),(5,8,17)); lvl=2; h,r-ind=1,1
    [4,3]((6,11,24),(7,12,26),(4,7,15),(16,27,58)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((11,19,41),(7,12,26),(16,27,58)); lvl=3; h,r-ind=1,1
      [3,3]((11,19,41),(4,7,15),(16,27,58)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,24),(11,19,41),(4,7,15)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,24),(11,19,41),(7,12,26)); lvl=3; h,r-ind=1,1
  [3,3]((6,11,24),(1,2,4),(4,7,15)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,4),(1,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(2,3,5),(2,3,4),(1,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,2),(2,3,4),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,4),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(1,2,2),(3,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(1,2,2),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=3; h,r-ind=1,1
```

24.68 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,13,24)); lvl=0; h,r-ind=24,96
  [3,3]((1,2,2),(6,7,12),(1,0,0)); lvl=1; h,r-ind=10,10; optimized-h
  [3,3]((3,4,7),(6,7,12),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,11),(3,4,7),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((6,13,24),(3,6,11),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((2,4,7),(3,4,7),(1,2,2),(6,7,12)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(6,7,12),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,7),(2,3,5),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(7,9,14),(6,7,12)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,3,5),(1,2,2),(1,2,3),(7,9,14)); lvl=2; h,r-ind=1,1
      [4,3]((2,3,5),(7,11,17),(5,7,10),(3,4,6)); lvl=3; h,r-ind=1,1
        [4,3]((9,13,20),(3,4,6),(4,6,9),(5,7,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((7,10,15),(3,4,6),(5,7,10)); lvl=5; h,r-ind=1,1
          [3,3]((7,10,15),(4,6,9),(5,7,10)); lvl=5; h,r-ind=1,1
          [3,3]((9,13,20),(7,10,15),(4,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((9,13,20),(7,10,15),(3,4,6)); lvl=5; h,r-ind=1,1
        [3,3]((2,3,5),(9,13,20),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(9,13,20),(4,6,9)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,5),(4,6,9),(7,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,5),(7,9,14),(3,4,6)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(7,11,17),(1,2,2),(5,7,10)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((2,3,4),(4,6,9),(5,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(8,13,19),(4,6,9)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((1,2,3),(7,11,17),(8,13,19),(4,6,9)); lvl=4; h,r-ind=1,3
          [3,3]((7,11,17),(5,8,12),(4,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((8,13,19),(5,8,12),(4,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(7,11,17),(5,8,12)); lvl=5; h,r-ind=1,1
          [3,3]((8,13,19),(1,2,3),(5,8,12)); lvl=5; h,r-ind=1,1
        [4,3]((1,2,3),(1,2,2),(2,3,4),(8,13,19)); lvl=4; h,r-ind=1,3
          [3,3]((1,2,2),(3,5,7),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((8,13,19),(3,5,7),(2,3,4)); lvl=5; h,r-ind=1,1
          [3,3]((1,2,3),(1,2,2),(3,5,7)); lvl=5; h,r-ind=1,1
          [3,3]((8,13,19),(1,2,3),(3,5,7)); lvl=5; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,3),(7,11,17)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,7),(2,3,5),(1,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(3,7,12),(2,4,7),(1,2,2)); lvl=1; h,r-ind=3,1
    [4,3]((3,8,12),(3,7,12),(1,2,3),(2,4,7)); lvl=2; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,7),(5,11,18)); lvl=3; h,r-ind=1,1
      [4,3]((3,7,12),(2,5,8),(2,4,7),(5,11,18)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,8),(4,9,15),(5,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,7),(4,9,15),(5,11,18)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(2,4,7),(4,9,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(2,5,8),(4,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((2,5,8),(1,2,3),(5,11,18)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((3,8,12),(2,5,8),(1,2,3)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(3,8,12),(1,2,3)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((2,4,7),(3,6,11),(3,4,7)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((6,13,24),(3,7,12),(2,4,7),(3,6,11)); lvl=1; h,r-ind=1,1
    [4,3]((9,20,36),(3,7,12),(2,4,7),(12,25,45)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((4,9,16),(15,32,57),(2,4,7),(3,7,12)); lvl=3; h,r-ind=1,3
        [3,3]((15,32,57),(6,13,23),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,7,12),(6,13,23),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,16),(3,7,12),(6,13,23)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,16),(15,32,57),(6,13,23)); lvl=4; h,r-ind=1,1
      [4,3]((15,32,57),(12,25,45),(7,15,27),(2,4,7)); lvl=3; h,r-ind=1,3
        [3,3]((9,19,34),(7,15,27),(12,25,45)); lvl=4; h,r-ind=1,1
        [3,3]((9,19,34),(2,4,7),(12,25,45)); lvl=4; h,r-ind=1,1
        [3,3]((15,32,57),(9,19,34),(2,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((15,32,57),(9,19,34),(7,15,27)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,16),(15,32,57),(7,15,27)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((4,9,16),(9,20,36),(7,15,27)); lvl=3; h,r-ind=1,1
  [3,3]((3,6,11),(2,4,7),(12,25,45)); lvl=2; h,r-ind=1,1
  [4,3]((3,6,11),(6,13,24),(9,20,36),(12,25,45)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [3,3]((5,11,20),(7,15,27),(18,38,69)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
    [4,3]((3,6,11),(12,25,45),(7,15,27),(18,38,69)); lvl=3; h,r-ind=1,3
      [3,3]((10,21,38),(7,15,27),(12,25,45)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,11),(10,21,38),(12,25,45)); lvl=4; h,r-ind=1,1
      [3,3]((18,38,69),(10,21,38),(7,15,27)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,11),(18,38,69),(10,21,38)); lvl=4; h,r-ind=1,1
    [4,3]((3,6,11),(6,13,24),(5,11,20),(18,38,69)); lvl=3; h,r-ind=1,3
      [3,3]((5,11,20),(8,17,31),(6,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,11),(8,17,31),(6,13,24)); lvl=4; h,r-ind=1,1
      [3,3]((18,38,69),(5,11,20),(8,17,31)); lvl=4; h,r-ind=1,1
      [3,3]((3,6,11),(18,38,69),(8,17,31)); lvl=4; h,r-ind=1,1
    [3,3]((5,11,20),(9,20,36),(7,15,27)); lvl=3; h,r-ind=1,1
```

24.69 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,17,24)); lvl=0; h,r-ind=24,96
  [4,3]((2,3,4),(5,11,15),(2,5,7),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((5,11,15),(2,5,7),(4,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,5,7),(4,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(5,11,15),(4,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(1,0,0),(4,8,11)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,4),(2,4,5),(1,2,2),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,5),(5,8,10),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,8,10),(3,5,6),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(3,5,6),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(1,2,2),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(5,8,10),(3,5,6)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,4),(1,0,0),(5,8,10),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(3,4,5),(1,0,0)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(1,0,0)); lvl=3; h,r-ind=1,1
      [3,3]((5,8,10),(1,1,1),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(5,8,10),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(5,8,10)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((6,17,24),(2,5,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,4),(5,11,15),(2,4,5),(4,9,12)); lvl=1; h,r-ind=1,2
    [3,3]((3,6,8),(5,11,15),(4,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,6,8),(4,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(2,4,5),(3,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,6,8),(5,11,15)); lvl=2; h,r-ind=1,1
  [4,3]((5,11,15),(4,9,12),(2,5,7),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((6,14,19),(1,3,4),(4,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,15),(6,14,19),(4,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,7),(6,14,19),(1,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,15),(2,5,7),(6,14,19)); lvl=2; h,r-ind=1,1
  [3,3]((6,17,24),(2,5,7),(1,3,4)); lvl=1; h,r-ind=1,1
  [4,3]((2,4,5),(4,9,12),(1,2,2),(1,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((4,9,12),(1,3,4),(3,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,3,4),(3,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(4,9,12),(3,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,2),(3,7,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,3,4)); lvl=1; h,r-ind=2,4; optimized-h
```

24.70 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,19,24)); lvl=0; h,r-ind=24,96
  [4,3]((3,8,10),(2,4,5),(3,5,6),(2,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((4,9,11),(2,4,5),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(4,9,11),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,10),(2,5,6),(4,9,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,10),(4,9,11),(2,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,1),(1,2,2),(3,5,6),(2,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((3,6,7),(2,5,6),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,6,7),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,5,6),(3,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(3,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(3,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((6,19,24),(3,8,10),(3,10,12),(2,5,6)); lvl=1; h,r-ind=2,4
    [3,3]((3,8,10),(2,5,6),(6,17,21)); lvl=2; h,r-ind=1,1
    [4,3]((3,9,11),(7,21,26),(2,5,6),(6,17,21)); lvl=2; h,r-ind=1,1
      [3,3]((7,21,26),(6,17,21),(9,26,32)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(6,17,21),(9,26,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,11),(2,5,6),(9,26,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,11),(7,21,26),(9,26,32)); lvl=3; h,r-ind=1,1
    [3,3]((3,10,12),(3,9,11),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((3,10,12),(9,29,36),(3,9,11),(7,21,26)); lvl=2; h,r-ind=1,1
      [3,3]((11,34,42),(8,25,31),(7,21,26)); lvl=3; h,r-ind=1,1
      [4,3]((3,9,11),(11,34,42),(18,56,69),(7,21,26)); lvl=3; h,r-ind=1,1
        [3,3]((18,56,69),(14,43,53),(11,34,42)); lvl=4; h,r-ind=1,1
        [3,3]((7,21,26),(14,43,53),(11,34,42)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,11),(18,56,69),(14,43,53)); lvl=4; h,r-ind=1,1
        [3,3]((7,21,26),(3,9,11),(14,43,53)); lvl=4; h,r-ind=1,1
      [4,3]((4,13,16),(3,10,12),(3,9,11),(18,56,69)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((3,10,12),(7,22,27),(3,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((18,56,69),(7,22,27),(3,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,16),(3,10,12),(7,22,27)); lvl=4; h,r-ind=1,1
        [3,3]((18,56,69),(4,13,16),(7,22,27)); lvl=4; h,r-ind=1,1
      [4,3]((4,13,16),(11,34,42),(18,56,69),(8,25,31)); lvl=3; h,r-ind=1,1
        [3,3]((15,47,58),(11,34,42),(18,56,69)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,16),(15,47,58),(18,56,69)); lvl=4; h,r-ind=1,1
        [3,3]((15,47,58),(8,25,31),(11,34,42)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,16),(15,47,58),(8,25,31)); lvl=4; h,r-ind=1,1
      [3,3]((9,29,36),(4,13,16),(8,25,31)); lvl=3; h,r-ind=1,1
    [4,3]((7,21,26),(3,8,10),(4,12,15),(6,17,21)); lvl=2; h,r-ind=1,1
      [3,3]((10,29,36),(3,8,10),(4,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((7,21,26),(10,29,36),(4,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,21),(7,21,26),(10,29,36)); lvl=3; h,r-ind=1,1
      [3,3]((6,17,21),(10,29,36),(3,8,10)); lvl=3; h,r-ind=1,1
    [4,3]((6,19,24),(9,29,36),(7,21,26),(4,12,15)); lvl=2; h,r-ind=1,1
      [3,3]((8,25,31),(7,21,26),(12,37,46)); lvl=3; h,r-ind=1,1
      [4,3]((4,12,15),(21,65,81),(7,21,26),(12,37,46)); lvl=3; h,r-ind=1,1
        [3,3]((16,49,61),(12,37,46),(21,65,81)); lvl=4; h,r-ind=1,1
        [3,3]((4,12,15),(16,49,61),(21,65,81)); lvl=4; h,r-ind=1,1
        [3,3]((7,21,26),(4,12,15),(16,49,61)); lvl=4; h,r-ind=1,1
        [3,3]((7,21,26),(16,49,61),(12,37,46)); lvl=4; h,r-ind=1,1
      [4,3]((5,16,20),(6,19,24),(4,12,15),(21,65,81)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((9,28,35),(4,12,15),(6,19,24)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,20),(9,28,35),(6,19,24)); lvl=4; h,r-ind=1,1
        [3,3]((21,65,81),(5,16,20),(9,28,35)); lvl=4; h,r-ind=1,1
        [3,3]((21,65,81),(9,28,35),(4,12,15)); lvl=4; h,r-ind=1,1
      [4,3]((5,16,20),(21,65,81),(8,25,31),(12,37,46)); lvl=3; h,r-ind=1,1
        [3,3]((21,65,81),(17,53,66),(12,37,46)); lvl=4; h,r-ind=1,1
        [3,3]((8,25,31),(17,53,66),(12,37,46)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,20),(8,25,31),(17,53,66)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,20),(21,65,81),(17,53,66)); lvl=4; h,r-ind=1,1
      [3,3]((5,16,20),(9,29,36),(8,25,31)); lvl=3; h,r-ind=1,1
    [3,3]((6,19,24),(3,8,10),(4,12,15)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,2),(3,10,12),(2,5,6)); lvl=1; h,r-ind=2,4
    [4,3]((3,8,9),(2,6,7),(3,9,10),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,9,10),(2,6,7),(5,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(2,6,7),(5,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(2,5,6),(5,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(3,9,10),(5,14,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(3,8,9),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,2),(1,3,3),(3,8,9),(3,9,10)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(3,9,10),(4,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(3,9,10),(4,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(1,3,3),(4,11,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(1,2,2),(4,11,12)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(3,11,12),(1,3,3),(3,9,10)); lvl=2; h,r-ind=1,1
      [4,3]((4,13,14),(6,20,21),(1,3,3),(3,9,10)); lvl=3; h,r-ind=1,1
        [3,3]((1,3,3),(6,20,21),(5,16,17)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((4,13,14),(6,20,21),(5,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,14),(3,9,10),(5,16,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,10),(1,3,3),(5,16,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,10,11),(4,13,14),(3,9,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,4,4),(3,10,11),(4,13,14),(6,20,21)); lvl=3; h,r-ind=1,1
        [3,3]((3,10,11),(4,13,14),(5,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((6,20,21),(4,13,14),(5,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(6,20,21),(5,17,18)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,4),(3,10,11),(5,17,18)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,4),(3,11,12),(3,10,11)); lvl=3; h,r-ind=1,1
      [4,3]((0,1,0),(1,4,4),(6,20,21),(1,3,3)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((2,7,7),(1,4,4),(6,20,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,7),(1,3,3),(6,20,21)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,7,7),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,7,7),(1,4,4)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(1,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,10,12),(2,6,7),(2,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((3,11,12),(3,10,12),(2,6,7),(3,9,10)); lvl=2; h,r-ind=1,1
      [4,3]((9,29,33),(3,10,12),(2,7,8),(2,6,7)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((4,13,15),(3,10,12),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((9,29,33),(4,13,15),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((4,13,15),(2,6,7),(3,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((9,29,33),(4,13,15),(2,6,7)); lvl=4; h,r-ind=1,1
      [4,3]((3,9,10),(5,16,18),(9,29,33),(2,6,7)); lvl=3; h,r-ind=1,1
        [3,3]((7,22,25),(5,16,18),(9,29,33)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(7,22,25),(9,29,33)); lvl=4; h,r-ind=1,1
        [3,3]((3,9,10),(7,22,25),(5,16,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,6,7),(3,9,10),(7,22,25)); lvl=4; h,r-ind=1,1
      [4,3]((5,16,18),(9,29,33),(3,10,11),(2,7,8)); lvl=3; h,r-ind=1,1
        [3,3]((9,29,33),(7,23,26),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((3,10,11),(7,23,26),(2,7,8)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,18),(9,29,33),(7,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((5,16,18),(3,10,11),(7,23,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,12),(3,10,11),(2,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,9,10),(5,16,18),(3,10,11)); lvl=3; h,r-ind=1,1
  [3,3]((6,19,24),(3,8,10),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(6,19,24),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,5),(3,5,6)); lvl=1; h,r-ind=1,1
```

24.71 Resolved

```
[3,3]((1,0,0),(0,1,0),(6,23,24)); lvl=0; h,r-ind=24,96
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((6,23,24),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((6,23,24),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,4,4),(0,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((6,23,24),(1,4,4),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

24.72 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,7,24)); lvl=0; h,r-ind=24,576
  [3,3]((3,3,10),(1,0,0),(5,5,17)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,10),(5,5,17)); lvl=1; h,r-ind=1,1
  [3,3]((7,7,24),(0,1,0),(5,5,17)); lvl=1; h,r-ind=1,1
  [3,3]((7,7,24),(1,0,0),(5,5,17)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,10),(1,0,0),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,10),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(1,0,0),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,2),(1,0,0)); lvl=1; h,r-ind=2,4; optimized-h
  [3,3]((0,1,0),(1,1,2),(1,1,3)); lvl=1; h,r-ind=1,1
```

24.73 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,8,24)); lvl=0; h,r-ind=24,72
  [4,3]((1,0,0),(3,4,8),(1,1,3),(3,4,6)); lvl=1; h,r-ind=2,4
    [3,3]((1,1,2),(3,4,8),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(1,1,2),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,1,2),(1,1,3),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,2),(1,1,3)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(3,4,6)); lvl=1; h,r-ind=6,6; optimized-h
  [4,3]((0,1,0),(2,3,6),(3,4,8),(3,4,6)); lvl=1; h,r-ind=2,1
    [3,3]((2,3,5),(3,4,7),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(2,3,5),(3,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,6),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(3,5,6),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,2,3),(0,1,0),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(0,1,0),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((4,7,10),(1,2,2),(2,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(4,7,10),(2,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(3,5,6),(1,2,2)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,6),(3,5,6),(2,3,5),(3,4,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,5),(2,3,4),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,16),(2,3,5),(2,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((3,4,6),(3,4,7),(7,10,16),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,7,11),(3,4,7),(7,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(5,7,11),(7,10,16)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(5,7,11),(3,4,7)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(3,4,6),(5,7,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,7),(7,10,16),(2,3,5)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,6),(3,4,8),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,10),(2,3,6),(1,1,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,8,24),(3,4,10),(1,1,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(3,4,10),(2,3,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((7,8,24),(0,1,0),(3,4,10)); lvl=1; h,r-ind=2,2; optimized-h
```

24.74 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,9,24)); lvl=0; h,r-ind=24,192
  [4,3]((4,5,12),(3,3,7),(1,0,0),(8,9,24)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,5),(3,3,7),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,5),(3,3,8),(1,0,0)); lvl=2; h,r-ind=1,1
    [4,3]((8,9,24),(6,7,18),(2,2,5),(3,3,8)); lvl=2; h,r-ind=1,1
      [4,3]((7,8,21),(6,7,18),(2,2,5),(12,13,34)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,7,18),(9,10,26),(2,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,34),(9,10,26),(2,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,21),(12,13,34),(9,10,26)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,21),(6,7,18),(9,10,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,8),(2,2,5),(12,13,34)); lvl=3; h,r-ind=1,1
      [4,3]((3,3,8),(8,9,24),(7,8,21),(12,13,34)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((10,11,29),(8,9,24),(7,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,34),(10,11,29),(7,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,8),(12,13,34),(10,11,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,8),(10,11,29),(8,9,24)); lvl=4; h,r-ind=1,1
    [3,3]((4,5,12),(2,2,5),(3,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,12),(6,7,18),(2,2,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((7,9,24),(4,5,12),(7,9,23),(8,9,24)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,13),(4,5,12),(6,7,18)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((8,9,24),(5,6,16),(4,5,13),(6,7,18)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,13),(5,6,16),(16,19,50)); lvl=3; h,r-ind=1,1
      [4,3]((7,8,21),(8,9,24),(5,6,16),(16,19,50)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,9,24),(12,14,37),(5,6,16)); lvl=4; h,r-ind=1,1
        [3,3]((16,19,50),(12,14,37),(5,6,16)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,21),(16,19,50),(12,14,37)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,21),(8,9,24),(12,14,37)); lvl=4; h,r-ind=1,1
      [4,3]((6,7,18),(7,8,21),(4,5,13),(16,19,50)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,8,21),(16,19,50),(11,13,34)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,13),(16,19,50),(11,13,34)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,18),(4,5,13),(11,13,34)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,18),(7,8,21),(11,13,34)); lvl=4; h,r-ind=1,1
    [3,3]((7,9,24),(5,6,16),(4,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,23),(4,5,13),(4,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,24),(7,9,23),(4,5,13)); lvl=2; h,r-ind=1,1
  [5,3]((4,5,12),(5,7,16),(3,4,9),(3,4,10),(7,9,23)); lvl=1; h,r-ind=1,1
    [3,3]((10,13,31),(3,4,9),(4,5,12)); lvl=2; h,r-ind=1,1
    [4,3]((10,13,32),(10,13,31),(13,17,41),(4,5,12)); lvl=2; h,r-ind=1,1
      [3,3]((10,13,31),(13,17,41),(30,39,94)); lvl=3; h,r-ind=1,1
      [4,3]((7,9,22),(10,13,32),(13,17,41),(30,39,94)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((20,26,63),(10,13,32),(13,17,41)); lvl=4; h,r-ind=1,1
        [3,3]((30,39,94),(20,26,63),(13,17,41)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,22),(30,39,94),(20,26,63)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,22),(20,26,63),(10,13,32)); lvl=4; h,r-ind=1,1
```

```
      [4,3]((4,5,12),(7,9,22),(10,13,31),(30,39,94)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((10,13,31),(30,39,94),(17,22,53)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,22),(30,39,94),(17,22,53)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,12),(10,13,31),(17,22,53)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,22),(4,5,12),(17,22,53)); lvl=4; h,r-ind=1,1
    [3,3]((10,13,32),(7,9,23),(4,5,12)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,4,10),(10,13,32),(7,9,23)); lvl=2; h,r-ind=1,1
    [4,3]((10,13,31),(13,17,41),(6,8,19),(3,4,9)); lvl=2; h,r-ind=1,1
      [3,3]((16,21,50),(6,8,19),(13,17,41)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,31),(16,21,50),(13,17,41)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(16,21,50),(6,8,19)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,31),(3,4,9),(16,21,50)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,16),(6,8,19),(3,4,9)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,10),(10,13,32),(13,17,41),(6,8,19)); lvl=2; h,r-ind=1,1
      [3,3]((16,21,51),(13,17,41),(10,13,32)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(16,21,51),(10,13,32)); lvl=3; h,r-ind=1,1
      [3,3]((16,21,51),(6,8,19),(13,17,41)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(16,21,51),(6,8,19)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,16),(3,4,10),(6,8,19)); lvl=2; h,r-ind=1,1
  [5,3]((6,9,20),(4,6,13),(8,11,27),(5,7,16),(3,4,10)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,13),(7,10,23),(5,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,10),(7,10,23),(5,7,16)); lvl=2; h,r-ind=1,1
    [3,3]((8,11,27),(3,4,10),(12,17,40)); lvl=2; h,r-ind=1,1
    [3,3]((6,9,20),(8,11,27),(12,17,40)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((4,6,13),(7,10,23),(16,23,53),(13,19,43)); lvl=2; h,r-ind=1,1
      [3,3]((20,29,66),(7,10,23),(16,23,53)); lvl=3; h,r-ind=1,1
      [3,3]((13,19,43),(20,29,66),(16,23,53)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(13,19,43),(20,29,66)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,13),(20,29,66),(7,10,23)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,10),(12,17,40),(7,10,23),(16,23,53)); lvl=2; h,r-ind=1,1
      [3,3]((16,23,53),(12,17,40),(19,27,63)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,10),(12,17,40),(19,27,63)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,23),(3,4,10),(19,27,63)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,23),(16,23,53),(19,27,63)); lvl=3; h,r-ind=1,1
    [4,3]((6,9,20),(12,17,40),(16,23,53),(13,19,43)); lvl=2; h,r-ind=1,1
      [4,3]((9,13,30),(12,17,40),(16,23,53),(38,55,126)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((25,36,83),(16,23,53),(12,17,40)); lvl=4; h,r-ind=1,1
        [3,3]((9,13,30),(25,36,83),(12,17,40)); lvl=4; h,r-ind=1,1
        [3,3]((25,36,83),(38,55,126),(16,23,53)); lvl=4; h,r-ind=1,1
        [3,3]((9,13,30),(25,36,83),(38,55,126)); lvl=4; h,r-ind=1,1
      [3,3]((13,19,43),(16,23,53),(38,55,126)); lvl=3; h,r-ind=1,1
      [4,3]((13,19,43),(6,9,20),(9,13,30),(38,55,126)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((22,32,73),(9,13,30),(6,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((13,19,43),(22,32,73),(6,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((38,55,126),(22,32,73),(9,13,30)); lvl=4; h,r-ind=1,1
        [3,3]((13,19,43),(38,55,126),(22,32,73)); lvl=4; h,r-ind=1,1
    [3,3]((6,9,20),(4,6,13),(13,19,43)); lvl=2; h,r-ind=1,1
  [3,3]((7,9,24),(8,11,27),(3,4,10)); lvl=1; h,r-ind=1,1
  [4,3]((7,9,24),(0,1,0),(6,9,20),(8,11,27)); lvl=1; h,r-ind=1,1
    [3,3]((6,9,20),(5,7,17),(3,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(5,7,17),(3,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,24),(0,1,0),(5,7,17)); lvl=2; h,r-ind=1,1
    [3,3]((8,11,27),(6,9,20),(5,7,17)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,24),(8,11,27),(5,7,17)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,3),(6,9,20),(4,6,13)); lvl=1; h,r-ind=1,1
    [4,3]((3,5,10),(6,9,20),(4,6,13),(8,13,26)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,11,23),(4,6,13),(6,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,10),(7,11,23),(6,9,20)); lvl=3; h,r-ind=1,1
      [3,3]((8,13,26),(7,11,23),(4,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,10),(8,13,26),(7,11,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(4,6,13),(8,13,26)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(3,5,10),(8,13,26)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,3),(8,13,26),(4,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,10),(8,13,26),(4,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,2,3),(4,7,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,10),(0,1,0),(4,7,13)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,3),(4,6,13),(5,7,16),(3,4,9)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,13),(5,7,16),(11,16,35)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,9),(2,3,6),(5,7,16),(11,16,35)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,6),(7,10,22),(11,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,16),(7,10,22),(11,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(5,7,16),(7,10,22)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,9),(2,3,6),(7,10,22)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,3),(2,3,6),(4,6,13),(11,16,35)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,9,19),(2,3,6),(11,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,19),(4,6,13),(11,16,35)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(6,9,19),(4,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(6,9,19),(2,3,6)); lvl=3; h,r-ind=1,1
  [3,3]((7,9,24),(3,4,10),(7,9,23)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,7),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
```

```
[3,3]((1,1,2),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
[4,3]((0,1,0),(2,2,3),(2,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(2,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,1),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
[5,3]((4,5,12),(3,3,7),(1,1,2),(3,4,8),(3,4,9)); lvl=1; h,r-ind=1,1
  [3,3]((6,7,16),(1,1,2),(3,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,12),(6,7,16),(3,3,7)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((6,7,16),(9,11,25),(4,5,11),(1,1,2)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,11),(9,11,25),(10,12,27)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,16),(9,11,25),(10,12,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(6,7,16),(10,12,27)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(4,5,11),(10,12,27)); lvl=3; h,r-ind=1,1
  [4,3]((4,5,12),(6,7,16),(9,11,25),(8,10,23)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,14),(22,27,62),(9,11,25),(6,7,16)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((22,27,62),(14,17,39),(9,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,16),(14,17,39),(9,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,14),(6,7,16),(14,17,39)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,14),(22,27,62),(14,17,39)); lvl=4; h,r-ind=1,1
    [3,3]((8,10,23),(22,27,62),(9,11,25)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,14),(4,5,12),(8,10,23),(22,27,62)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,12),(13,16,37),(8,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((22,27,62),(13,16,37),(8,10,23)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,14),(22,27,62),(13,16,37)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,14),(4,5,12),(13,16,37)); lvl=4; h,r-ind=1,1
  [4,3]((9,11,25),(8,10,23),(3,4,9),(4,5,11)); lvl=2; h,r-ind=1,1
    [3,3]((8,10,23),(3,4,9),(12,15,34)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,11),(3,4,9),(12,15,34)); lvl=3; h,r-ind=1,1
    [3,3]((9,11,25),(4,5,11),(12,15,34)); lvl=3; h,r-ind=1,1
    [3,3]((9,11,25),(8,10,23),(12,15,34)); lvl=3; h,r-ind=1,1
  [3,3]((4,5,12),(8,10,23),(3,4,9)); lvl=2; h,r-ind=1,1
  [3,3]((4,5,11),(1,1,2),(3,4,8)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,9),(4,5,11),(3,4,8)); lvl=2; h,r-ind=1,1
[4,3]((1,2,3),(3,4,8),(2,3,5),(3,4,9)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,5),(7,10,19),(3,4,8)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,6),(3,4,9),(7,10,19),(3,4,8)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((3,4,9),(5,7,14),(3,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((7,10,19),(5,7,14),(3,4,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(7,10,19),(5,7,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,6),(3,4,9),(5,7,14)); lvl=3; h,r-ind=1,1
  [4,3]((1,2,3),(2,3,6),(2,3,5),(7,10,19)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,3,6),(7,10,19),(4,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(7,10,19),(4,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(4,6,11)); lvl=3; h,r-ind=1,1
[5,3]((1,1,2),(2,2,3),(3,4,8),(2,3,4),(2,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,5),(5,7,11),(3,4,7),(6,8,13)); lvl=2; h,r-ind=1,1
    [3,3]((8,11,18),(6,8,13),(3,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(8,11,18),(3,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,11),(8,11,18),(6,8,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(5,7,11),(8,11,18)); lvl=3; h,r-ind=1,1
  [4,3]((1,1,2),(4,5,8),(3,4,7),(6,8,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,7),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,8),(6,8,13),(7,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(4,5,8),(7,9,15)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(3,4,7),(7,9,15)); lvl=3; h,r-ind=1,1
  [3,3]((2,2,3),(1,1,2),(4,5,8)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,4),(4,5,8),(5,7,11),(6,8,13)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,6),(4,5,8),(6,8,13),(14,19,30)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((9,12,19),(4,5,8),(6,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((14,19,30),(9,12,19),(6,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(14,19,30),(9,12,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(9,12,19),(4,5,8)); lvl=4; h,r-ind=1,1
    [3,3]((5,7,11),(6,8,13),(14,19,30)); lvl=3; h,r-ind=1,1
    [4,3]((5,7,11),(2,3,4),(3,4,6),(14,19,30)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,6),(2,3,4),(8,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(2,3,4),(8,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((14,19,30),(3,4,6),(8,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((5,7,11),(14,19,30),(8,11,17)); lvl=4; h,r-ind=1,1
  [3,3]((2,2,3),(2,3,4),(4,5,8)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((3,4,8),(2,3,5),(3,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,2),(3,4,8),(3,4,7)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,4),(2,3,5),(5,7,11)); lvl=2; h,r-ind=1,1
[4,3]((0,1,0),(1,2,3),(2,3,4),(2,3,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,2),(2,3,4),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((2,3,4),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,10),(3,5,7),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((4,7,10),(1,2,2),(3,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(1,2,3),(1,2,2),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,3),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(0,1,0),(2,4,5)); lvl=3; h,r-ind=1,1
```

24.75 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,11,24)); lvl=0; h,r-ind=24,576
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,5),(1,2,2),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,2,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(1,1,2),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,5),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,6),(2,3,5),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((5,7,15),(2,3,6),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((4,6,13),(5,7,15),(9,14,30),(2,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,6),(6,9,19),(5,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,13),(6,9,19),(5,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,13),(9,14,30),(6,9,19)); lvl=2; h,r-ind=1,1
    [3,3]((9,14,30),(2,3,6),(6,9,19)); lvl=2; h,r-ind=1,1
  [3,3]((7,11,24),(4,6,13),(9,14,30)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,6),(0,1,0),(2,3,5),(1,2,2)); lvl=1; h,r-ind=1,1
    [4,3]((1,2,3),(4,7,10),(1,2,2),(0,1,0)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,4,5),(1,2,2),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(2,4,5),(4,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(2,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(0,1,0),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(4,7,10),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,2,3),(2,3,6),(2,3,5),(4,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,8),(2,3,6),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,10),(3,5,8),(2,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(4,7,10),(3,5,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,3),(3,5,8),(2,3,6)); lvl=3; h,r-ind=1,1
  [3,3]((2,3,6),(3,5,10),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((5,8,17),(3,5,10),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,11,24),(5,8,17),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((5,8,17),(9,14,30),(2,3,6),(3,5,10)); lvl=1; h,r-ind=1,1
    [3,3]((7,11,23),(2,3,6),(9,14,30)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,17),(7,11,23),(9,14,30)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,17),(7,11,23),(3,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((7,11,23),(3,5,10),(2,3,6)); lvl=2; h,r-ind=1,1
  [3,3]((7,11,24),(5,8,17),(9,14,30)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(1,2,2),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,2
    [3,3]((1,1,1),(2,2,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,0),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((5,7,15),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((4,6,13),(5,7,15),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,11,24),(4,6,13),(1,0,0)); lvl=1; h,r-ind=1,1
```

24.76 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,12,24)); lvl=0; h,r-ind=24,48
  [4,3]((3,5,10),(2,3,6),(1,2,3),(3,6,10)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,13),(1,2,3),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,10),(4,7,13),(2,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,10),(4,7,13),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,10),(3,6,10),(4,7,13)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(3,6,10)); lvl=1; h,r-ind=1,1
  [3,3]((7,12,24),(0,1,0),(3,6,10)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((7,12,24),(3,5,10),(3,6,10)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,2,2),(2,3,6),(1,1,2),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,6),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,2,3),(2,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,1,2),(2,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,2,2),(1,1,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

24.77 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,14,24)); lvl=0; h,r-ind=24,288
  [4,3]((5,9,15),(7,13,22),(1,0,0),(4,7,12)); lvl=1; h,r-ind=1,1
    [3,3]((7,13,22),(4,7,12),(13,23,39)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(4,7,12),(13,23,39)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(1,0,0),(4,7,12)); lvl=2; h,r-ind=1,1
    [4,3]((5,9,15),(2,3,5),(7,13,22),(13,23,39)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,5),(9,16,27),(13,23,39)); lvl=3; h,r-ind=1,1
      [3,3]((7,13,22),(9,16,27),(13,23,39)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,15),(7,13,22),(9,16,27)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,15),(2,3,5),(9,16,27)); lvl=3; h,r-ind=1,1
  [4,3]((7,14,24),(5,10,17),(7,13,22),(4,7,12)); lvl=1; h,r-ind=1,1
    [3,3]((9,17,29),(7,13,22),(5,10,17)); lvl=2; h,r-ind=1,1
    [3,3]((7,14,24),(9,17,29),(5,10,17)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,12),(9,17,29),(7,13,22)); lvl=2; h,r-ind=1,1
    [3,3]((7,14,24),(4,7,12),(9,17,29)); lvl=2; h,r-ind=1,1
  [4,3]((5,10,17),(3,6,10),(5,9,15),(7,13,22)); lvl=1; h,r-ind=1,1
    [3,3]((3,6,10),(5,9,15),(10,19,32)); lvl=2; h,r-ind=1,1
    [3,3]((7,13,22),(5,9,15),(10,19,32)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,17),(3,6,10),(10,19,32)); lvl=2; h,r-ind=1,1
    [3,3]((7,13,22),(5,10,17),(10,19,32)); lvl=2; h,r-ind=1,1
  [4,3]((2,2,3),(3,5,8),(5,9,15),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,8),(2,3,5),(5,9,15)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,8),(7,10,16),(2,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,2,3),(7,10,16),(2,3,5)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,8),(2,2,3),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(4,5,8),(7,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(4,5,8),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(1,0,0),(4,5,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(3,5,8),(7,10,16)); lvl=2; h,r-ind=1,1
  [4,3]((2,2,3),(1,2,2),(2,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((2,3,4),(5,6,8),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,5),(1,1,1),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(1,2,2),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(1,2,2)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,3),(1,0,0),(5,6,8),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,0,0),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(1,1,1),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(5,6,8),(3,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(5,6,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((2,2,3),(3,5,8),(1,2,3),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,8),(3,4,6),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,6),(1,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(2,3,4),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(3,5,8),(3,4,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((3,6,10),(0,1,0),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((5,10,17),(3,6,10),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,14,24),(5,10,17),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((3,6,10),(3,5,8),(5,9,15),(1,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,8),(5,9,15),(6,11,18)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,10),(5,9,15),(6,11,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,6,10),(6,11,18)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(3,5,8),(6,11,18)); lvl=2; h,r-ind=1,1
```

24.78 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,15,24)); lvl=0; h,r-ind=24,192
  [3,3]((2,3,4),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,3),(2,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(8,15,24),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((7,15,24),(1,2,3),(8,15,24)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((7,15,24),(6,13,20),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(2,3,4),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,7,10),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,10),(6,13,20),(1,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((7,15,24),(3,7,10),(6,13,20)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(7,15,24),(3,7,10)); lvl=1; h,r-ind=2,2; optimized-h
```

24.79 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,18,24)); lvl=0; h,r-ind=24,96
  [4,3]((3,7,9),(1,1,1),(1,0,0),(4,9,12)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,5),(5,9,12),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
      [4,3]((1,1,1),(5,8,10),(2,3,4),(1,0,0)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,4,5),(5,8,10),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,4,5),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,4,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,4,5),(5,8,10)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(1,1,1),(5,8,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(5,8,10),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(5,9,12),(2,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((2,4,5),(3,7,9),(4,9,12),(5,9,12)); lvl=2; h,r-ind=1,1
      [4,3]((3,6,8),(3,7,9),(4,9,12),(8,17,22)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,9,12),(6,13,17),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((8,17,22),(6,13,17),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,8),(4,9,12),(6,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((8,17,22),(3,6,8),(6,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(3,6,8),(8,17,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(5,9,12),(3,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,7,9),(8,17,22)); lvl=3; h,r-ind=1,1
  [4,3]((7,18,24),(5,13,17),(3,7,9),(4,9,12)); lvl=1; h,r-ind=1,1
    [4,3]((11,27,36),(4,9,12),(4,10,13),(3,7,9)); lvl=2; h,r-ind=1,1
      [4,3]((5,12,16),(12,29,38),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((12,29,38),(8,19,25),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,12),(8,19,25),(3,7,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,16),(4,9,12),(8,19,25)); lvl=4; h,r-ind=1,1
        [3,3]((5,12,16),(12,29,38),(8,19,25)); lvl=4; h,r-ind=1,1
      [3,3]((4,10,13),(12,29,38),(3,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,16),(4,10,13),(12,29,38)); lvl=3; h,r-ind=1,1
      [3,3]((11,27,36),(5,12,16),(4,10,13)); lvl=3; h,r-ind=1,1
    [4,3]((7,18,24),(11,27,36),(5,13,17),(4,10,13)); lvl=2; h,r-ind=1,1
      [3,3]((4,10,13),(11,27,36),(6,15,20)); lvl=3; h,r-ind=1,1
      [3,3]((15,38,50),(4,10,13),(6,15,20)); lvl=3; h,r-ind=1,1
      [4,3]((7,18,24),(5,13,17),(15,38,50),(6,15,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((11,28,37),(5,13,17),(15,38,50)); lvl=4; h,r-ind=1,1
        [3,3]((6,15,20),(11,28,37),(15,38,50)); lvl=4; h,r-ind=1,1
        [3,3]((7,18,24),(11,28,37),(5,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((6,15,20),(7,18,24),(11,28,37)); lvl=4; h,r-ind=1,1
      [3,3]((5,13,17),(15,38,50),(4,10,13)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((3,7,9),(1,2,2),(1,1,1),(2,5,6)); lvl=1; h,r-ind=1,1
    [4,3]((2,4,5),(1,1,1),(1,2,2),(5,11,13)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,6,7),(1,2,2),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,6,7),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,7),(5,11,13),(1,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,6,7),(5,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(1,2,2),(5,11,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,6),(3,7,9),(2,4,5),(5,11,13)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,9,11),(3,7,9),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,13),(4,9,11),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(5,11,13),(4,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(4,9,11),(3,7,9)); lvl=3; h,r-ind=1,1
  [4,3]((3,8,10),(5,13,17),(3,7,9),(2,5,6)); lvl=1; h,r-ind=1,1
    [4,3]((3,8,10),(9,23,29),(4,10,13),(5,13,17)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((9,23,29),(7,18,23),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,13,17),(7,18,23),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(5,13,17),(7,18,23)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,10),(9,23,29),(7,18,23)); lvl=3; h,r-ind=1,1
    [3,3]((2,5,6),(3,8,10),(9,23,29)); lvl=2; h,r-ind=1,1
    [4,3]((2,5,6),(9,23,29),(3,7,9),(4,10,13)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((9,23,29),(6,15,19),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(6,15,19),(4,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(9,23,29),(6,15,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,5,6),(6,15,19)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(3,8,10),(2,5,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(3,8,10),(5,13,17)); lvl=1; h,r-ind=1,1
  [3,3]((7,18,24),(0,1,0),(5,13,17)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,5,6)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.80 Resolved

```
[3,3]((1,0,0),(0,1,0),(7,21,24)); lvl=0; h,r-ind=24,192
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
```

```
  [4,3]((8,21,24),(3,8,9),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
    [3,3]((7,16,18),(3,8,9),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,8),(1,0,0),(7,16,18),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,1,1),(4,8,9),(1,0,0)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(4,8,9),(1,0,0)); lvl=3; h,r-ind=1,1
      [3,3]((7,16,18),(1,1,1),(4,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(7,16,18),(4,8,9)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,8),(7,16,18),(3,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((8,21,24),(3,7,8),(3,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,1),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(1,2,2),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(3,9,10),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,9,10),(5,15,17),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,21,24),(5,15,17),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,3,3),(7,19,21),(3,9,10),(1,2,2)); lvl=1; h,r-ind=1,2
    [3,3]((4,11,12),(3,9,10),(7,19,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(4,11,12),(7,19,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(1,2,2),(4,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,3),(4,11,12),(3,9,10)); lvl=2; h,r-ind=1,1
  [4,3]((3,8,9),(7,19,21),(3,9,10),(5,15,17)); lvl=1; h,r-ind=1,2
    [3,3]((6,17,19),(7,19,21),(3,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((5,15,17),(6,17,19),(3,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(5,15,17),(6,17,19)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(6,17,19),(7,19,21)); lvl=2; h,r-ind=1,1
  [4,3]((7,21,24),(8,21,24),(3,8,9),(5,15,17)); lvl=1; h,r-ind=1,1
    [3,3]((3,8,9),(8,21,24),(5,14,16)); lvl=2; h,r-ind=1,1
    [3,3]((13,37,42),(3,8,9),(5,14,16)); lvl=2; h,r-ind=1,1
    [4,3]((7,21,24),(13,37,42),(5,15,17),(5,14,16)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((10,29,33),(5,15,17),(13,37,42)); lvl=3; h,r-ind=1,1
      [3,3]((10,29,33),(5,14,16),(13,37,42)); lvl=3; h,r-ind=1,1
      [3,3]((7,21,24),(10,29,33),(5,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((7,21,24),(10,29,33),(5,15,17)); lvl=3; h,r-ind=1,1
    [3,3]((13,37,42),(5,15,17),(3,8,9)); lvl=2; h,r-ind=1,1
  [4,3]((3,8,9),(7,19,21),(1,1,1),(1,2,2)); lvl=1; h,r-ind=1,2
    [3,3]((1,2,2),(7,19,21),(4,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(7,19,21),(4,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,2,2),(4,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,8,9),(1,1,1),(4,10,11)); lvl=2; h,r-ind=1,1
```

24.81 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,9,24)); lvl=0; h,r-ind=24,24
  [3,3]((0,1,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(2,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [4,3]((0,1,0),(4,5,12),(3,3,7),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,12),(8,9,20),(3,3,7)); lvl=2; h,r-ind=4,4; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,2),(8,9,20),(3,3,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,6),(0,1,0),(1,1,2),(8,9,20)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,2,3),(4,5,10),(1,1,2),(0,1,0)); lvl=3; h,r-ind=1,2
        [3,3]((1,1,2),(2,3,5),(4,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,3),(2,3,5),(4,5,10)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,2,3),(2,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(1,1,2),(2,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,6),(1,2,3),(4,5,10)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((2,3,6),(5,6,13),(4,5,10)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((5,6,13),(8,9,20),(4,5,10),(1,1,2)); lvl=3; h,r-ind=1,2
        [3,3]((6,7,15),(1,1,2),(8,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,13),(6,7,15),(8,9,20)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,15),(4,5,10),(1,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,13),(6,7,15),(4,5,10)); lvl=4; h,r-ind=1,1
    [3,3]((2,3,6),(4,5,12),(8,9,20)); lvl=2; h,r-ind=8,4; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((1,0,0),(3,3,7),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((8,9,24),(4,5,12),(3,3,7),(3,3,8)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,5),(3,3,7),(4,5,12)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,18),(2,2,5),(4,5,12)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((8,9,24),(6,7,18),(2,2,5),(3,3,8)); lvl=2; h,r-ind=1,1
      [4,3]((7,8,21),(6,7,18),(2,2,5),(12,13,34)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,7,18),(9,10,26),(2,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,34),(9,10,26),(2,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,21),(12,13,34),(9,10,26)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,21),(6,7,18),(9,10,26)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,8),(2,2,5),(12,13,34)); lvl=3; h,r-ind=1,1
      [4,3]((3,3,8),(8,9,24),(7,8,21),(12,13,34)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((10,11,29),(8,9,24),(7,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,34),(10,11,29),(7,8,21)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,8),(12,13,34),(10,11,29)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((3,3,8),(10,11,29),(8,9,24)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(3,3,7),(3,3,8)); lvl=1; h,r-ind=3,3; optimized-h
```

24.82 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,11,24)); lvl=0; h,r-ind=24,72
  [3,3]((2,2,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((6,7,15),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((8,11,24),(6,7,15),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(2,2,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,5,9),(1,1,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((7,10,21),(3,5,9),(1,1,2)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((8,11,24),(7,10,21),(1,1,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((8,11,24),(6,7,15),(1,1,2)); lvl=1; h,r-ind=1,1
```

24.83 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,13,24)); lvl=0; h,r-ind=24,72
  [4,3]((1,0,0),(3,3,5),(7,8,13),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(7,8,13),(3,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(3,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(9,11,16),(7,8,13)); lvl=2; h,r-ind=5,5; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,2,3),(1,1,1),(2,3,3),(9,11,16)); lvl=2; h,r-ind=1,1
      [4,3]((8,9,12),(7,9,12),(1,1,1),(2,3,3)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((10,12,15),(1,1,1),(2,3,3),(3,4,5)); lvl=4; h,r-ind=1,3
          [3,3]((4,5,6),(1,1,1),(2,3,3)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,5),(4,5,6),(2,3,3)); lvl=5; h,r-ind=1,1
          [3,3]((10,12,15),(4,5,6),(1,1,1)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,5),(10,12,15),(4,5,6)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,8),(10,12,15),(3,4,5)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((5,6,8),(7,9,12),(3,4,5)); lvl=4; h,r-ind=1,1
        [4,3]((8,9,12),(5,6,8),(10,12,15),(1,1,1)); lvl=4; h,r-ind=1,3
          [3,3]((5,6,8),(6,7,9),(10,12,15)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,1),(6,7,9),(10,12,15)); lvl=5; h,r-ind=1,1
          [3,3]((8,9,12),(1,1,1),(6,7,9)); lvl=5; h,r-ind=1,1
          [3,3]((8,9,12),(5,6,8),(6,7,9)); lvl=5; h,r-ind=1,1
      [3,3]((2,2,3),(8,9,12),(1,1,1)); lvl=3; h,r-ind=1,1
      [4,3]((2,2,3),(8,9,12),(4,5,7),(7,9,12)); lvl=3; h,r-ind=1,1
        [4,3]((11,13,18),(4,5,7),(5,6,8),(7,9,12)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((4,5,7),(7,9,12),(9,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,8),(7,9,12),(9,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((11,13,18),(5,6,8),(9,11,15)); lvl=5; h,r-ind=1,1
          [3,3]((11,13,18),(4,5,7),(9,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((2,2,3),(11,13,18),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(8,9,12),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(11,13,18),(4,5,7)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,3),(9,11,16),(4,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
  [6,3]((1,2,3),(2,3,5),(1,2,2),(5,6,10),(7,8,13),(2,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((3,4,6),(2,3,4),(9,11,16),(2,3,3)); lvl=2; h,r-ind=1,1
      [4,3]((3,4,6),(11,15,21),(7,9,12),(4,5,7)); lvl=3; h,r-ind=1,1
        [4,3]((4,5,7),(7,9,12),(6,8,11),(13,17,24)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((10,13,18),(7,9,12),(6,8,11)); lvl=5; h,r-ind=1,1
          [3,3]((13,17,24),(10,13,18),(6,8,11)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,7),(13,17,24),(10,13,18)); lvl=5; h,r-ind=1,1
          [3,3]((4,5,7),(10,13,18),(7,9,12)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,6),(6,8,11),(13,17,24)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(11,15,21),(6,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(4,5,7),(13,17,24)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(9,11,16),(4,5,7)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,4),(11,15,21),(2,3,3),(7,9,12)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((2,3,4),(13,18,24),(6,8,11),(11,15,21)); lvl=4; h,r-ind=1,3
          [3,3]((8,11,15),(6,8,11),(13,18,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,4),(8,11,15),(13,18,24)); lvl=5; h,r-ind=1,1
          [3,3]((11,15,21),(8,11,15),(6,8,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,4),(11,15,21),(8,11,15)); lvl=5; h,r-ind=1,1
        [3,3]((13,18,24),(3,4,5),(6,8,11)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((3,4,5),(7,9,12),(6,8,11)); lvl=4; h,r-ind=1,1
        [4,3]((2,3,4),(13,18,24),(3,4,5),(2,3,3)); lvl=4; h,r-ind=1,3
          [3,3]((3,4,5),(5,7,9),(13,18,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,4),(5,7,9),(13,18,24)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,3),(3,4,5),(5,7,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,4),(2,3,3),(5,7,9)); lvl=5; h,r-ind=1,1
```

```
    [3,3]((3,4,6),(2,3,4),(11,15,21)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,2),(2,3,4),(2,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,3),(6,9,14),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((6,9,14),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(4,6,9),(3,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,4),(4,6,9)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,3),(6,9,14),(4,6,9)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,6),(9,11,16),(7,8,13),(4,5,8)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,6),(16,20,31),(5,6,9),(11,13,20)); lvl=3; h,r-ind=1,1
      [4,3]((5,6,9),(17,21,32),(9,11,17),(11,13,20)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((14,17,26),(17,21,32),(9,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((11,13,20),(14,17,26),(9,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,9),(11,13,20),(14,17,26)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,9),(14,17,26),(17,21,32)); lvl=5; h,r-ind=1,1
      [3,3]((3,4,6),(5,6,9),(17,21,32)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(17,21,32),(9,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(9,11,17),(16,20,31)); lvl=4; h,r-ind=1,1
    [4,3]((4,5,8),(16,20,31),(7,8,13),(11,13,20)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [3,3]((6,7,11),(11,13,20),(9,11,17)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,11),(23,28,44),(9,11,17)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((4,5,8),(23,28,44),(16,20,31),(9,11,17)); lvl=4; h,r-ind=1,3
        [3,3]((13,16,25),(23,28,44),(9,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((16,20,31),(13,16,25),(9,11,17)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,8),(16,20,31),(13,16,25)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,8),(13,16,25),(23,28,44)); lvl=5; h,r-ind=1,1
      [4,3]((4,5,8),(7,8,13),(6,7,11),(23,28,44)); lvl=4; h,r-ind=1,3
        [3,3]((10,12,19),(6,7,11),(7,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,8),(10,12,19),(7,8,13)); lvl=5; h,r-ind=1,1
        [3,3]((23,28,44),(10,12,19),(6,7,11)); lvl=5; h,r-ind=1,1
        [3,3]((4,5,8),(23,28,44),(10,12,19)); lvl=5; h,r-ind=1,1
    [3,3]((3,4,6),(4,5,8),(16,20,31)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(9,11,16),(5,6,9)); lvl=3; h,r-ind=1,1
  [3,3]((5,6,10),(7,8,13),(4,5,8)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,5),(5,6,10),(4,5,8)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,5),(6,9,14),(3,4,6),(4,5,8)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((3,4,6),(5,7,11),(6,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(5,7,11),(6,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,8),(2,3,5),(5,7,11)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,8),(3,4,6),(5,7,11)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,3),(2,3,5),(6,9,14)); lvl=2; h,r-ind=1,1
[3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(0,1,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
[3,3]((1,2,3),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
[6,3]((3,5,9),(4,7,12),(2,3,5),(13,15,26),(4,6,11),(5,6,10)); lvl=1; h,r-ind=1,1
  [5,3]((3,5,9),(4,7,12),(6,9,16),(7,11,19),(8,12,21)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,14),(8,12,21),(7,11,19)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,12),(5,8,14),(7,11,19)); lvl=3; h,r-ind=1,1
    [3,3]((6,9,16),(5,8,14),(8,12,21)); lvl=3; h,r-ind=1,1
    [3,3]((3,5,9),(6,9,16),(5,8,14)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,12),(3,5,9),(5,8,14)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,7),(2,3,5),(7,11,19),(8,12,21)); lvl=2; h,r-ind=1,1
    [3,3]((10,15,26),(7,11,19),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,7),(10,15,26),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((8,12,21),(10,15,26),(7,11,19)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,7),(8,12,21),(10,15,26)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,7),(5,6,10),(2,3,5)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,7),(6,7,12),(5,6,10)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,7),(13,15,26),(17,21,37),(6,7,12)); lvl=2; h,r-ind=1,1
    [4,3]((6,7,12),(19,23,40),(13,15,26),(10,12,21)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((16,19,33),(19,23,40),(10,12,21)); lvl=4; h,r-ind=1,1
      [3,3]((13,15,26),(16,19,33),(10,12,21)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,12),(13,15,26),(16,19,33)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,12),(16,19,33),(19,23,40)); lvl=4; h,r-ind=1,1
    [3,3]((3,4,7),(19,23,40),(10,12,21)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,7),(17,21,37),(10,12,21)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,7),(6,7,12),(19,23,40)); lvl=3; h,r-ind=1,1
  [3,3]((4,7,12),(2,3,5),(7,11,19)); lvl=2; h,r-ind=1,1
  [3,3]((3,4,7),(6,9,16),(8,12,21)); lvl=2; h,r-ind=1,1
  [3,3]((4,6,11),(3,4,7),(6,9,16)); lvl=2; h,r-ind=1,1
  [3,3]((4,6,11),(3,4,7),(17,21,37)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
  [3,3]((3,5,9),(4,6,11),(6,9,16)); lvl=2; h,r-ind=1,1
[4,3]((1,0,0),(13,15,26),(7,7,12),(4,6,11)); lvl=1; h,r-ind=1,1
  [6,3]((17,21,37),(15,17,30),(11,13,23),(11,12,21),(13,15,26),(10,11,19)); lvl=2; h,r-ind=1,1
    [4,3]((14,17,30),(7,8,14),(17,21,37),(10,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((24,29,51),(10,12,21),(7,8,14)); lvl=4; h,r-ind=1,1
      [3,3]((14,17,30),(24,29,51),(7,8,14)); lvl=4; h,r-ind=1,1
      [3,3]((17,21,37),(24,29,51),(10,12,21)); lvl=4; h,r-ind=1,1
      [3,3]((14,17,30),(17,21,37),(24,29,51)); lvl=4; h,r-ind=1,1
    [3,3]((7,8,14),(13,15,26),(10,12,21)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((10,11,19),(7,8,14),(13,15,26)); lvl=3; h,r-ind=1,1
      [3,3]((11,12,21),(10,11,19),(7,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((11,13,23),(14,17,30),(7,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((15,17,30),(11,13,23),(7,8,14)); lvl=3; h,r-ind=1,1
      [3,3]((15,17,30),(11,12,21),(7,8,14)); lvl=3; h,r-ind=1,1
    [4,3]((4,4,7),(11,12,21),(7,7,12),(10,11,19)); lvl=2; h,r-ind=1,1
      [3,3]((11,12,21),(10,11,19),(14,15,26)); lvl=3; h,r-ind=1,1
      [3,3]((7,7,12),(10,11,19),(14,15,26)); lvl=3; h,r-ind=1,1
      [3,3]((4,4,7),(11,12,21),(14,15,26)); lvl=3; h,r-ind=1,1
      [3,3]((7,7,12),(4,4,7),(14,15,26)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(4,4,7),(7,7,12)); lvl=2; h,r-ind=1,1
    [4,3]((17,21,37),(4,6,11),(4,5,9),(11,13,23)); lvl=2; h,r-ind=1,1
      [4,3]((11,13,23),(29,36,64),(18,22,39),(4,5,9)); lvl=3; h,r-ind=1,1
        [3,3]((18,22,39),(29,36,64),(22,27,48)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,9),(29,36,64),(22,27,48)); lvl=4; h,r-ind=1,1
        [3,3]((11,13,23),(4,5,9),(22,27,48)); lvl=4; h,r-ind=1,1
        [3,3]((11,13,23),(18,22,39),(22,27,48)); lvl=4; h,r-ind=1,1
      [4,3]((4,6,11),(7,9,16),(29,36,64),(4,5,9)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((11,14,25),(7,9,16),(29,36,64)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,9),(11,14,25),(29,36,64)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,11),(11,14,25),(7,9,16)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,9),(4,6,11),(11,14,25)); lvl=4; h,r-ind=1,1
      [4,3]((14,17,30),(7,9,16),(29,36,64),(18,22,39)); lvl=3; h,r-ind=1,1
        [3,3]((7,9,16),(29,36,64),(25,31,55)); lvl=4; h,r-ind=1,1
        [3,3]((18,22,39),(29,36,64),(25,31,55)); lvl=4; h,r-ind=1,1
        [3,3]((14,17,30),(18,22,39),(25,31,55)); lvl=4; h,r-ind=1,1
        [3,3]((14,17,30),(7,9,16),(25,31,55)); lvl=4; h,r-ind=1,1
      [3,3]((11,13,23),(14,17,30),(18,22,39)); lvl=3; h,r-ind=1,1
      [3,3]((17,21,37),(14,17,30),(7,9,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(4,6,11),(4,5,9)); lvl=2; h,r-ind=1,1
    [4,3]((4,4,7),(8,9,16),(15,17,30),(11,12,21)); lvl=2; h,r-ind=1,1
      [3,3]((8,9,16),(15,17,30),(19,21,37)); lvl=3; h,r-ind=1,1
      [3,3]((11,12,21),(15,17,30),(19,21,37)); lvl=3; h,r-ind=1,1
      [3,3]((4,4,7),(8,9,16),(19,21,37)); lvl=3; h,r-ind=1,1
      [3,3]((11,12,21),(4,4,7),(19,21,37)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(4,4,7),(8,9,16)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,9),(8,9,16),(15,17,30),(11,13,23)); lvl=2; h,r-ind=1,1
      [3,3]((19,22,39),(15,17,30),(8,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,9),(19,22,39),(8,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((11,13,23),(19,22,39),(15,17,30)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,9),(11,13,23),(19,22,39)); lvl=3; h,r-ind=1,1
    [3,3]((1,0,0),(4,5,9),(8,9,16)); lvl=2; h,r-ind=1,1
  [3,3]((8,13,24),(3,5,9),(4,6,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(8,13,24),(4,6,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(4,7,12),(2,3,5)); lvl=1; h,r-ind=1,1
  [5,3]((13,15,26),(7,7,12),(5,6,10),(3,3,5),(7,8,13)); lvl=1; h,r-ind=1,1
    [3,3]((8,9,15),(7,8,13),(3,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((28,30,51),(8,9,15),(9,10,17),(3,3,5)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((12,13,22),(9,10,17),(8,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,5),(12,13,22),(8,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((28,30,51),(12,13,22),(9,10,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,5),(28,30,51),(12,13,22)); lvl=3; h,r-ind=1,1
    [4,3]((7,7,12),(16,17,29),(28,30,51),(3,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((19,20,34),(16,17,29),(28,30,51)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,5),(19,20,34),(28,30,51)); lvl=3; h,r-ind=1,1
      [3,3]((7,7,12),(19,20,34),(16,17,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,5),(7,7,12),(19,20,34)); lvl=3; h,r-ind=1,1
    [5,3]((6,7,12),(10,11,19),(16,17,29),(28,30,51),(9,10,17)); lvl=2; h,r-ind=1,1
      [5,3]((6,7,12),(10,11,19),(13,14,24),(37,41,70),(22,24,41)); lvl=3; h,r-ind=1,1
        [3,3]((41,45,77),(13,14,24),(22,24,41)); lvl=4; h,r-ind=1,1
        [4,3]((47,52,89),(28,31,53),(41,45,77),(22,24,41)); lvl=4; h,r-ind=1,1
          [3,3]((69,76,130),(22,24,41),(28,31,53)); lvl=5; h,r-ind=1,1
          [3,3]((47,52,89),(69,76,130),(28,31,53)); lvl=5; h,r-ind=1,1
          [3,3]((41,45,77),(69,76,130),(22,24,41)); lvl=5; h,r-ind=1,1
          [3,3]((47,52,89),(41,45,77),(69,76,130)); lvl=5; h,r-ind=1,1
        [3,3]((37,41,70),(28,31,53),(22,24,41)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,12),(37,41,70),(28,31,53)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,12),(47,52,89),(28,31,53)); lvl=4; h,r-ind=1,1
        [4,3]((19,21,36),(47,52,89),(41,45,77),(13,14,24)); lvl=4; h,r-ind=1,1
          [3,3]((47,52,89),(41,45,77),(60,66,113)); lvl=5; h,r-ind=1,1
          [3,3]((13,14,24),(41,45,77),(60,66,113)); lvl=5; h,r-ind=1,1
          [3,3]((19,21,36),(47,52,89),(60,66,113)); lvl=5; h,r-ind=1,1
          [3,3]((13,14,24),(19,21,36),(60,66,113)); lvl=5; h,r-ind=1,1
        [3,3]((19,21,36),(10,11,19),(13,14,24)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,12),(19,21,36),(10,11,19)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,12),(19,21,36),(47,52,89)); lvl=4; h,r-ind=1,1
      [4,3]((9,10,17),(25,27,46),(37,41,70),(22,24,41)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((31,34,58),(22,24,41),(25,27,46)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,17),(31,34,58),(25,27,46)); lvl=4; h,r-ind=1,1
        [3,3]((31,34,58),(37,41,70),(22,24,41)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((9,10,17),(31,34,58),(37,41,70)); lvl=4; h,r-ind=1,1
      [3,3]((6,7,12),(9,10,17),(37,41,70)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,17),(25,27,46),(28,30,51)); lvl=3; h,r-ind=1,1
      [3,3]((16,17,29),(25,27,46),(28,30,51)); lvl=3; h,r-ind=1,1
      [4,3]((16,17,29),(25,27,46),(13,14,24),(22,24,41)); lvl=3; h,r-ind=1,1
        [3,3]((38,41,70),(22,24,41),(25,27,46)); lvl=4; h,r-ind=1,1
        [3,3]((16,17,29),(38,41,70),(25,27,46)); lvl=4; h,r-ind=1,1
        [3,3]((13,14,24),(38,41,70),(22,24,41)); lvl=4; h,r-ind=1,1
        [3,3]((16,17,29),(13,14,24),(38,41,70)); lvl=4; h,r-ind=1,1
    [3,3]((13,15,26),(6,7,12),(10,11,19)); lvl=2; h,r-ind=1,1
    [3,3]((7,7,12),(10,11,19),(16,17,29)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((8,9,15),(5,6,10),(7,8,13)); lvl=2; h,r-ind=1,1
    [4,3]((6,7,12),(8,9,15),(9,10,17),(5,6,10)); lvl=2; h,r-ind=1,1
      [3,3]((8,9,15),(9,10,17),(14,16,27)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,12),(9,10,17),(14,16,27)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,10),(6,7,12),(14,16,27)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,10),(8,9,15),(14,16,27)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(7,7,12),(3,3,5)); lvl=1; h,r-ind=1,1
```

24.84 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,15,24)); lvl=0; h,r-ind=24,24
  [3,3]((7,9,12),(1,0,0),(2,3,3)); lvl=1; h,r-ind=9,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((1,2,3),(1,2,2),(5,7,10),(7,9,12),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,5),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,4),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(2,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,4),(7,9,12),(6,8,11),(3,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((9,12,16),(7,9,12),(6,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(9,12,16),(6,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,16),(3,4,5),(7,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(9,12,16),(3,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(5,7,10),(6,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(2,3,4),(5,7,10)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((3,4,6),(5,7,10),(7,9,12),(1,0,0)); lvl=1; h,r-ind=2,1
    [4,3]((4,5,7),(8,9,12),(6,8,11),(7,9,12)); lvl=2; h,r-ind=1,1
      [4,3]((6,8,11),(15,19,26),(5,6,8),(7,9,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((15,19,26),(11,14,19),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,12),(11,14,19),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,11),(7,9,12),(11,14,19)); lvl=4; h,r-ind=1,1
        [3,3]((6,8,11),(15,19,26),(11,14,19)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,7),(6,8,11),(15,19,26)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(15,19,26),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(5,6,8),(8,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,10),(4,5,7),(6,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(5,7,10),(4,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(2,2,3),(4,5,7),(8,9,12)); lvl=2; h,r-ind=1,1
      [3,3]((9,10,14),(4,5,7),(2,2,3)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(3,3,4),(9,10,14),(2,2,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,5,7),(3,3,4),(9,10,14)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,7),(2,2,3),(9,10,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(5,5,7),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(5,5,7),(3,3,4)); lvl=4; h,r-ind=1,1
      [3,3]((3,3,4),(9,10,14),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,12),(3,3,4),(4,5,7)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(2,2,3),(4,5,7)); lvl=2; h,r-ind=1,1
  [3,3]((3,5,8),(3,4,6),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,3),(3,4,6),(5,7,10)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(3,5,8),(3,4,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,3),(8,15,24),(3,5,8)); lvl=1; h,r-ind=1,1
```

24.85 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,17,24)); lvl=0; h,r-ind=24,72
  [4,3]((8,15,21),(5,9,12),(2,3,4),(3,5,7)); lvl=1; h,r-ind=1,1
    [4,3]((5,9,12),(13,24,33),(2,3,4),(14,24,33)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((2,3,4),(19,33,45),(9,16,22),(14,24,33)); lvl=3; h,r-ind=1,3
        [3,3]((19,33,45),(11,19,26),(9,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((14,24,33),(11,19,26),(9,16,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(14,24,33),(11,19,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(19,33,45),(11,19,26)); lvl=4; h,r-ind=1,1
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```
      [3,3]((6,11,15),(19,33,45),(9,16,22)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((6,11,15),(13,24,33),(9,16,22)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,4),(5,9,12),(6,11,15),(19,33,45)); lvl=3; h,r-ind=1,3
        [3,3]((8,14,19),(6,11,15),(5,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(8,14,19),(5,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((19,33,45),(8,14,19),(6,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(19,33,45),(8,14,19)); lvl=4; h,r-ind=1,1
    [3,3]((3,5,7),(2,3,4),(14,24,33)); lvl=2; h,r-ind=1,1
    [4,3]((8,15,21),(3,5,7),(13,24,33),(14,24,33)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((22,39,54),(3,5,7),(9,16,22),(14,24,33)); lvl=3; h,r-ind=1,3
        [3,3]((3,5,7),(14,24,33),(12,21,29)); lvl=4; h,r-ind=1,1
        [3,3]((9,16,22),(14,24,33),(12,21,29)); lvl=4; h,r-ind=1,1
        [3,3]((22,39,54),(3,5,7),(12,21,29)); lvl=4; h,r-ind=1,1
        [3,3]((9,16,22),(22,39,54),(12,21,29)); lvl=4; h,r-ind=1,1
      [3,3]((7,13,18),(22,39,54),(9,16,22)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((13,24,33),(7,13,18),(9,16,22)); lvl=3; h,r-ind=1,1
      [4,3]((8,15,21),(7,13,18),(22,39,54),(3,5,7)); lvl=3; h,r-ind=1,3
        [3,3]((7,13,18),(22,39,54),(10,18,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,7),(22,39,54),(10,18,25)); lvl=4; h,r-ind=1,1
        [3,3]((8,15,21),(7,13,18),(10,18,25)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,7),(8,15,21),(10,18,25)); lvl=4; h,r-ind=1,1
[3,3]((1,0,0),(2,3,4),(3,5,7)); lvl=1; h,r-ind=1,1
[3,3]((8,17,24),(8,15,21),(3,5,7)); lvl=1; h,r-ind=1,1
[3,3]((1,0,0),(8,17,24),(3,5,7)); lvl=1; h,r-ind=1,1
[4,3]((8,17,24),(8,15,21),(4,9,12),(5,9,12)); lvl=1; h,r-ind=3,3
  [4,3]((9,18,25),(3,6,8),(5,9,12),(13,24,33)); lvl=2; h,r-ind=3,1
    [4,3]((4,8,11),(3,6,8),(6,11,15),(5,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,6,8),(5,9,12),(9,17,23)); lvl=4; h,r-ind=1,1
      [3,3]((6,11,15),(5,9,12),(9,17,23)); lvl=4; h,r-ind=1,1
      [3,3]((4,8,11),(3,6,8),(9,17,23)); lvl=4; h,r-ind=1,1
      [3,3]((6,11,15),(4,8,11),(9,17,23)); lvl=4; h,r-ind=1,1
    [3,3]((11,21,29),(4,8,11),(6,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((11,21,29),(13,24,33),(6,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((9,18,25),(11,21,29),(4,8,11)); lvl=3; h,r-ind=1,1
  [4,3]((5,10,14),(9,18,25),(8,15,21),(13,24,33)); lvl=2; h,r-ind=1,1
    [3,3]((7,13,18),(13,24,33),(11,21,29)); lvl=3; h,r-ind=1,1
    [4,3]((16,31,43),(28,54,75),(7,13,18),(11,21,29)); lvl=3; h,r-ind=1,1
      [3,3]((7,13,18),(28,54,75),(23,44,61)); lvl=4; h,r-ind=1,1
      [3,3]((16,31,43),(28,54,75),(23,44,61)); lvl=4; h,r-ind=1,1
      [3,3]((16,31,43),(11,21,29),(23,44,61)); lvl=4; h,r-ind=1,1
      [3,3]((11,21,29),(7,13,18),(23,44,61)); lvl=4; h,r-ind=1,1
    [3,3]((9,18,25),(16,31,43),(11,21,29)); lvl=3; h,r-ind=1,1
    [4,3]((5,10,14),(9,18,25),(16,31,43),(28,54,75)); lvl=3; h,r-ind=1,1
      [3,3]((9,18,25),(21,41,57),(16,31,43)); lvl=4; h,r-ind=1,1
      [3,3]((28,54,75),(21,41,57),(16,31,43)); lvl=4; h,r-ind=1,1
      [3,3]((5,10,14),(28,54,75),(21,41,57)); lvl=4; h,r-ind=1,1
      [3,3]((5,10,14),(9,18,25),(21,41,57)); lvl=4; h,r-ind=1,1
    [4,3]((8,15,21),(5,10,14),(28,54,75),(7,13,18)); lvl=3; h,r-ind=1,3; alert-r-inc
      [3,3]((12,23,32),(5,10,14),(28,54,75)); lvl=4; h,r-ind=1,1
      [3,3]((7,13,18),(12,23,32),(28,54,75)); lvl=4; h,r-ind=1,1
      [3,3]((8,15,21),(12,23,32),(5,10,14)); lvl=4; h,r-ind=1,1
      [3,3]((7,13,18),(8,15,21),(12,23,32)); lvl=4; h,r-ind=1,1
  [3,3]((8,17,24),(5,10,14),(8,15,21)); lvl=2; h,r-ind=1,1
  [4,3]((8,17,24),(6,13,18),(5,10,14),(9,18,25)); lvl=2; h,r-ind=1,1
    [3,3]((16,33,46),(5,10,14),(9,18,25)); lvl=3; h,r-ind=1,1
    [3,3]((16,33,46),(6,13,18),(9,18,25)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((7,15,21),(16,33,46),(6,13,18)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((7,15,21),(8,17,24),(16,33,46),(5,10,14)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((8,17,24),(12,25,35),(5,10,14)); lvl=4; h,r-ind=1,1
      [3,3]((16,33,46),(12,25,35),(5,10,14)); lvl=4; h,r-ind=1,1
      [3,3]((7,15,21),(16,33,46),(12,25,35)); lvl=4; h,r-ind=1,1
      [3,3]((7,15,21),(8,17,24),(12,25,35)); lvl=4; h,r-ind=1,1
  [4,3]((6,13,18),(4,9,12),(9,18,25),(3,6,8)); lvl=2; h,r-ind=1,1
    [4,3]((4,9,12),(5,11,15),(3,6,8),(4,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,8,11),(3,6,8),(8,17,23)); lvl=4; h,r-ind=1,1
      [3,3]((4,9,12),(3,6,8),(8,17,23)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,15),(4,9,12),(8,17,23)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,15),(4,8,11),(8,17,23)); lvl=4; h,r-ind=1,1
    [3,3]((6,13,18),(5,11,15),(4,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((6,13,18),(9,18,25),(4,8,11)); lvl=3; h,r-ind=1,1
[4,3]((5,9,12),(2,3,4),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,4),(8,12,15),(1,1,1)); lvl=2; h,r-ind=1,1
  [4,3]((7,12,15),(2,3,3),(8,12,15),(1,1,1)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
    [4,3]((3,5,6),(10,15,18),(1,1,1),(2,3,3)); lvl=3; h,r-ind=1,3
      [3,3]((4,6,7),(10,15,18),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((2,3,3),(4,6,7),(1,1,1)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,6),(2,3,3),(4,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,6),(4,6,7),(10,15,18)); lvl=4; h,r-ind=1,1
    [4,3]((5,8,10),(10,15,18),(8,12,15),(1,1,1)); lvl=3; h,r-ind=1,3
      [3,3]((1,1,1),(6,9,11),(10,15,18)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((5,8,10),(6,9,11),(10,15,18)); lvl=4; h,r-ind=1,1
        [3,3]((8,12,15),(1,1,1),(6,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,10),(8,12,15),(6,9,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,6),(5,8,10),(10,15,18)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((3,5,6),(7,12,15),(5,8,10)); lvl=3; h,r-ind=1,1
    [4,3]((5,9,12),(7,12,15),(2,3,4),(8,12,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((5,8,10),(13,21,27),(2,3,4),(8,12,15)); lvl=3; h,r-ind=1,3
        [3,3]((13,21,27),(7,11,14),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((8,12,15),(7,11,14),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,10),(8,12,15),(7,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,10),(13,21,27),(7,11,14)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,9),(5,8,10),(13,21,27)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((4,7,9),(7,12,15),(5,8,10)); lvl=3; h,r-ind=1,1
      [4,3]((5,9,12),(4,7,9),(13,21,27),(2,3,4)); lvl=3; h,r-ind=1,3
        [3,3]((4,7,9),(6,10,13),(13,21,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,4),(6,10,13),(13,21,27)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,12),(2,3,4),(6,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,12),(4,7,9),(6,10,13)); lvl=4; h,r-ind=1,1
  [3,3]((1,0,0),(2,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(4,9,12),(5,9,12),(2,3,3)); lvl=1; h,r-ind=3,3
    [4,3]((3,6,8),(5,9,12),(7,12,15),(3,6,7)); lvl=2; h,r-ind=3,1
      [3,3]((5,9,11),(4,7,9),(7,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(5,9,11),(4,7,9)); lvl=3; h,r-ind=1,1
      [4,3]((3,6,8),(2,4,5),(5,9,12),(4,7,9)); lvl=3; h,r-ind=1,1
        [3,3]((2,4,5),(4,7,9),(7,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,12),(4,7,9),(7,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,8),(2,4,5),(7,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,12),(3,6,8),(7,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(5,9,11),(3,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,3),(1,2,2),(7,12,15),(3,6,7)); lvl=2; h,r-ind=1,1
      [4,3]((1,2,2),(3,6,7),(10,18,21),(6,11,13)); lvl=3; h,r-ind=1,1
        [3,3]((3,6,7),(7,13,15),(6,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((10,18,21),(7,13,15),(6,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(10,18,21),(7,13,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(3,6,7),(7,13,15)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,6),(5,9,11),(10,18,21),(6,11,13)); lvl=3; h,r-ind=1,1
        [3,3]((5,9,11),(9,16,19),(6,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((10,18,21),(9,16,19),(6,11,13)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,6),(10,18,21),(9,16,19)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,6),(5,9,11),(9,16,19)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,6),(5,9,11),(7,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,11),(3,6,7),(6,11,13)); lvl=3; h,r-ind=1,1
      [4,3]((2,3,3),(3,5,6),(1,2,2),(10,18,21)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((4,7,8),(3,5,6),(10,18,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(4,7,8),(10,18,21)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(4,7,8),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,3,3),(4,7,8)); lvl=4; h,r-ind=1,1
    [4,3]((0,1,0),(2,5,6),(1,2,2),(3,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,9,10),(1,2,2),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(4,9,10),(3,6,7)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((1,3,3),(2,5,6),(4,9,10)); lvl=3; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
      [4,3]((0,1,0),(1,3,3),(4,9,10),(1,2,2)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((2,5,5),(1,3,3),(4,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(2,5,5),(4,9,10)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(2,5,5),(1,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(0,1,0),(2,5,5)); lvl=4; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((3,6,8),(4,9,12),(2,5,6),(3,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((2,4,5),(2,5,6),(3,7,9)); lvl=3; h,r-ind=1,1
      [4,3]((3,6,8),(2,4,5),(4,9,12),(3,7,9)); lvl=3; h,r-ind=1,1
        [3,3]((2,4,5),(3,7,9),(6,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((4,9,12),(3,7,9),(6,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,8),(4,9,12),(6,13,17)); lvl=4; h,r-ind=1,1
        [3,3]((3,6,8),(2,4,5),(6,13,17)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(3,6,7),(2,5,6)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.86 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,19,24)); lvl=0; h,r-ind=24,72
  [4,3]((2,3,3),(3,5,6),(4,7,8),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,6),(4,7,8),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(4,7,8),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,5,6),(5,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((2,4,5),(3,5,6),(3,6,7),(4,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,8),(3,5,6),(6,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(3,5,6),(6,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(2,4,5),(6,11,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(4,7,8),(6,11,13)); lvl=2; h,r-ind=1,1
  [5,3]((0,1,0),(2,3,3),(3,8,9),(3,6,7),(4,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(3,6,7),(4,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(4,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(3,7,8),(3,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((3,8,9),(1,3,3),(1,2,2),(3,7,8)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(4,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(1,2,2),(4,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,9),(1,3,3),(4,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(3,8,9),(4,10,11)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(1,3,3),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(2,4,5),(3,5,6)); lvl=1; h,r-ind=1,1
  [4,3]((2,4,5),(3,8,9),(7,17,21),(3,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,8),(2,5,6),(3,8,9)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,8),(5,11,13),(9,20,24),(2,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((5,11,13),(9,20,24),(7,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(9,20,24),(7,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(5,11,13),(7,16,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,5,6),(3,7,8),(7,16,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(9,20,24),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(7,17,21),(2,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(3,7,8),(5,11,13)); lvl=2; h,r-ind=1,1
    [4,3]((2,4,5),(3,6,7),(5,11,13),(9,20,24)); lvl=2; h,r-ind=1,1
      [3,3]((7,15,18),(3,6,7),(5,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((9,20,24),(7,15,18),(5,11,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(9,20,24),(7,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(7,15,18),(3,6,7)); lvl=3; h,r-ind=1,1
  [3,3]((8,19,24),(2,4,5),(7,17,21)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(8,19,24),(2,4,5)); lvl=1; h,r-ind=1,1
```

24.87 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,21,24)); lvl=0; h,r-ind=24,24
  [3,3]((2,3,3),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(2,3,3),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((1,3,3),(4,11,12),(4,10,11),(6,12,13),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((4,10,11),(4,11,12),(9,23,25)); lvl=2; h,r-ind=1,1
    [4,3]((1,3,3),(1,2,2),(4,11,12),(9,23,25)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,2),(9,23,25),(5,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,12),(9,23,25),(5,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,3),(1,2,2),(5,13,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,11,12),(1,3,3),(5,13,14)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(4,10,11),(5,11,12),(9,23,25)); lvl=2; h,r-ind=1,1
      [3,3]((5,12,13),(5,11,12),(4,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((9,23,25),(5,12,13),(4,10,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(9,23,25),(5,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(5,12,13),(5,11,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,2,2),(2,3,3),(5,11,12),(6,12,13)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,3),(6,12,13),(7,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,12),(6,12,13),(7,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(7,14,15)); lvl=3; h,r-ind=1,1
      [3,3]((5,11,12),(1,2,2),(7,14,15)); lvl=3; h,r-ind=1,1
  [5,3]((3,7,8),(3,8,9),(4,10,11),(6,12,13),(5,10,11)); lvl=1; h,r-ind=1,1
    [3,3]((4,9,10),(4,10,11),(3,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,8),(4,9,10),(3,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,10),(4,10,11),(5,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,10),(5,11,12),(6,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,9,10),(5,10,11),(6,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,8),(4,9,10),(5,10,11)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,8),(8,21,24),(3,8,9)); lvl=1; h,r-ind=1,1
  [3,3]((3,8,9),(4,11,12),(4,10,11)); lvl=1; h,r-ind=1,1
  [4,3]((6,12,13),(5,10,11),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(5,10,11),(7,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((6,12,13),(5,10,11),(7,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(6,12,13),(7,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(7,13,14)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(3,7,8),(5,10,11),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,8),(4,8,9),(5,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(4,8,9),(5,10,11)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,0,0),(1,1,1),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,7,8),(4,8,9)); lvl=2; h,r-ind=1,1
```

24.88 Resolved

```
[3,3]((1,0,0),(0,1,0),(8,23,24)); lvl=0; h,r-ind=24,72
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((8,23,24),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((8,23,24),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,3,3),(0,1,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((8,23,24),(1,3,3),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
```

24.89 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,10,24)); lvl=0; h,r-ind=24,96
  [5,3]((7,8,17),(8,9,20),(1,1,2),(4,4,9),(12,13,30)); lvl=1; h,r-ind=1,1
    [3,3]((15,16,36),(4,4,9),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((15,16,36),(9,10,22),(11,12,27),(1,1,2)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((11,12,27),(9,10,22),(12,13,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(9,10,22),(12,13,29)); lvl=3; h,r-ind=1,1
      [3,3]((15,16,36),(11,12,27),(12,13,29)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(15,16,36),(12,13,29)); lvl=3; h,r-ind=1,1
    [3,3]((7,8,17),(9,10,22),(1,1,2)); lvl=2; h,r-ind=1,1
    [4,3]((8,9,20),(10,11,25),(9,10,22),(11,12,27)); lvl=2; h,r-ind=1,1
      [3,3]((11,12,27),(10,11,25),(19,21,47)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,20),(10,11,25),(19,21,47)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,22),(8,9,20),(19,21,47)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,22),(11,12,27),(19,21,47)); lvl=3; h,r-ind=1,1
    [3,3]((7,8,17),(8,9,20),(9,10,22)); lvl=2; h,r-ind=1,1
    [3,3]((15,16,36),(12,13,30),(4,4,9)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((10,11,25),(15,16,36),(11,12,27),(12,13,30)); lvl=2; h,r-ind=1,1
      [4,3]((45,49,111),(27,29,66),(15,16,36),(11,12,27)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((11,12,27),(15,16,36),(14,15,34),(60,65,147)); lvl=4; h,r-ind=1,3
          [3,3]((25,27,61),(14,15,34),(15,16,36)); lvl=5; h,r-ind=1,1
          [3,3]((11,12,27),(25,27,61),(15,16,36)); lvl=5; h,r-ind=1,1
          [3,3]((60,65,147),(25,27,61),(14,15,34)); lvl=5; h,r-ind=1,1
          [3,3]((11,12,27),(60,65,147),(25,27,61)); lvl=5; h,r-ind=1,1
        [3,3]((24,26,59),(14,15,34),(60,65,147)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((24,26,59),(27,29,66),(14,15,34)); lvl=4; h,r-ind=1,1
        [4,3]((45,49,111),(24,26,59),(11,12,27),(60,65,147)); lvl=4; h,r-ind=1,3
          [3,3]((24,26,59),(35,38,86),(60,65,147)); lvl=5; h,r-ind=1,1
          [3,3]((11,12,27),(35,38,86),(60,65,147)); lvl=5; h,r-ind=1,1
          [3,3]((45,49,111),(11,12,27),(35,38,86)); lvl=5; h,r-ind=1,1
          [3,3]((45,49,111),(24,26,59),(35,38,86)); lvl=5; h,r-ind=1,1
      [3,3]((10,11,25),(45,49,111),(11,12,27)); lvl=3; h,r-ind=1,1
      [4,3]((10,11,25),(45,49,111),(12,13,30),(27,29,66)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((10,11,25),(57,62,141),(24,26,59),(45,49,111)); lvl=4; h,r-ind=1,3
          [3,3]((57,62,141),(34,37,84),(24,26,59)); lvl=5; h,r-ind=1,1
          [3,3]((45,49,111),(34,37,84),(24,26,59)); lvl=5; h,r-ind=1,1
          [3,3]((10,11,25),(45,49,111),(34,37,84)); lvl=5; h,r-ind=1,1
          [3,3]((10,11,25),(57,62,141),(34,37,84)); lvl=5; h,r-ind=1,1
        [3,3]((57,62,141),(13,14,32),(24,26,59)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((13,14,32),(27,29,66),(24,26,59)); lvl=4; h,r-ind=1,1
        [4,3]((10,11,25),(57,62,141),(13,14,32),(12,13,30)); lvl=4; h,r-ind=1,3
          [3,3]((57,62,141),(23,25,57),(13,14,32)); lvl=5; h,r-ind=1,1
          [3,3]((12,13,30),(23,25,57),(13,14,32)); lvl=5; h,r-ind=1,1
          [3,3]((10,11,25),(57,62,141),(23,25,57)); lvl=5; h,r-ind=1,1
          [3,3]((12,13,30),(10,11,25),(23,25,57)); lvl=5; h,r-ind=1,1
  [4,3]((9,10,24),(5,5,12),(4,4,9),(12,13,30)); lvl=1; h,r-ind=3,1
    [4,3]((12,13,30),(21,23,54),(4,4,9),(3,3,7)); lvl=2; h,r-ind=1,1
      [3,3]((3,3,7),(4,4,9),(18,19,44)); lvl=3; h,r-ind=1,1
      [4,3]((12,13,30),(11,12,28),(4,4,9),(18,19,44)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((11,12,28),(15,16,37),(18,19,44)); lvl=4; h,r-ind=1,1
        [3,3]((4,4,9),(15,16,37),(18,19,44)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,30),(4,4,9),(15,16,37)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,30),(11,12,28),(15,16,37)); lvl=4; h,r-ind=1,1
      [3,3]((11,12,28),(3,3,7),(18,19,44)); lvl=3; h,r-ind=1,1
      [3,3]((11,12,28),(21,23,54),(3,3,7)); lvl=3; h,r-ind=1,1
    [3,3]((9,10,24),(21,23,54),(3,3,7)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((9,10,24),(5,5,12),(3,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(5,5,12),(4,4,9)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((9,10,24),(7,8,18),(8,9,20),(12,13,30)); lvl=1; h,r-ind=2,1
    [3,3]((9,10,23),(10,11,25),(8,9,20)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((9,10,23),(7,8,18),(8,9,20)); lvl=2; h,r-ind=1,1
    [3,3]((9,10,23),(8,9,21),(7,8,18)); lvl=2; h,r-ind=1,1
    [4,3]((9,10,24),(21,23,54),(9,10,23),(8,9,21)); lvl=2; h,r-ind=1,1
      [3,3]((10,11,26),(9,10,23),(27,30,70)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,21),(9,10,23),(27,30,70)); lvl=3; h,r-ind=1,1
      [4,3]((9,10,24),(8,9,21),(10,11,26),(27,30,70)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((8,9,21),(27,30,70),(18,20,47)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,26),(27,30,70),(18,20,47)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,24),(8,9,21),(18,20,47)); lvl=4; h,r-ind=1,1
        [3,3]((10,11,26),(9,10,24),(18,20,47)); lvl=4; h,r-ind=1,1
      [3,3]((21,23,54),(10,11,26),(9,10,23)); lvl=3; h,r-ind=1,1
    [4,3]((12,13,30),(21,23,54),(9,10,23),(10,11,25)); lvl=2; h,r-ind=1,1
      [3,3]((9,10,23),(21,23,54),(11,12,28)); lvl=3; h,r-ind=1,1
      [3,3]((30,33,76),(9,10,23),(11,12,28)); lvl=3; h,r-ind=1,1
      [4,3]((12,13,30),(30,33,76),(10,11,25),(11,12,28)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((21,23,53),(10,11,25),(30,33,76)); lvl=4; h,r-ind=1,1
        [3,3]((21,23,53),(11,12,28),(30,33,76)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,30),(21,23,53),(11,12,28)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,30),(21,23,53),(10,11,25)); lvl=4; h,r-ind=1,1
      [3,3]((30,33,76),(10,11,25),(9,10,23)); lvl=3; h,r-ind=1,1
  [4,3]((9,10,24),(7,8,18),(5,6,13),(9,11,24)); lvl=1; h,r-ind=1,1
    [4,3]((13,15,34),(24,28,63),(5,6,13),(7,8,18)); lvl=2; h,r-ind=1,1
      [3,3]((18,21,47),(5,6,13),(24,28,63)); lvl=3; h,r-ind=1,1
      [3,3]((13,15,34),(18,21,47),(24,28,63)); lvl=3; h,r-ind=1,1
      [3,3]((13,15,34),(7,8,18),(18,21,47)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,18),(18,21,47),(5,6,13)); lvl=3; h,r-ind=1,1
    [3,3]((8,9,21),(13,15,34),(7,8,18)); lvl=2; h,r-ind=1,1
    [4,3]((8,9,21),(13,15,34),(6,7,16),(24,28,63)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,16),(24,28,63),(19,22,50)); lvl=3; h,r-ind=1,1
      [3,3]((13,15,34),(24,28,63),(19,22,50)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,21),(13,15,34),(19,22,50)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,21),(6,7,16),(19,22,50)); lvl=3; h,r-ind=1,1
    [3,3]((9,10,24),(8,9,21),(6,7,16)); lvl=2; h,r-ind=1,1
    [4,3]((9,11,24),(6,7,16),(24,28,63),(5,6,13)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((11,13,29),(6,7,16),(24,28,63)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,13),(11,13,29),(24,28,63)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,24),(11,13,29),(6,7,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,13),(9,11,24),(11,13,29)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(4,5,10),(5,6,13),(9,11,24)); lvl=1; h,r-ind=1,1
    [4,3]((15,19,39),(4,5,10),(7,9,18),(5,6,13)); lvl=2; h,r-ind=1,1
      [3,3]((12,15,31),(4,5,10),(7,9,18)); lvl=3; h,r-ind=1,1
      [3,3]((15,19,39),(12,15,31),(7,9,18)); lvl=3; h,r-ind=1,1
      [3,3]((12,15,31),(5,6,13),(4,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((15,19,39),(12,15,31),(5,6,13)); lvl=3; h,r-ind=1,1
    [4,3]((9,11,24),(3,4,8),(15,19,39),(5,6,13)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,4,8),(15,19,39),(8,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,13),(15,19,39),(8,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,24),(3,4,8),(8,10,21)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,13),(9,11,24),(8,10,21)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,10),(2,3,5),(7,9,18)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,8),(15,19,39),(2,3,5),(7,9,18)); lvl=2; h,r-ind=1,1
      [3,3]((10,13,26),(7,9,18),(15,19,39)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,8),(10,13,26),(15,19,39)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,26),(2,3,5),(7,9,18)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,8),(10,13,26),(2,3,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(3,4,8),(2,3,5)); lvl=2; h,r-ind=1,1
  [4,3]((5,6,12),(7,8,17),(9,11,21),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,2),(7,8,17),(6,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,12),(7,8,17),(6,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,12),(9,11,21),(6,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((9,11,21),(1,1,2),(6,7,14)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(9,11,21),(1,1,2)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [4,3]((0,1,0),(4,5,10),(5,6,12),(9,11,21)); lvl=1; h,r-ind=1,1
    [4,3]((7,9,17),(15,19,36),(4,5,10),(5,6,12)); lvl=2; h,r-ind=1,1
      [3,3]((12,15,29),(5,6,12),(15,19,36)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,17),(12,15,29),(15,19,36)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,17),(12,15,29),(4,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((12,15,29),(4,5,10),(5,6,12)); lvl=3; h,r-ind=1,1
    [4,3]((9,11,21),(3,4,7),(15,19,36),(5,6,12)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,4,7),(15,19,36),(8,10,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,12),(15,19,36),(8,10,19)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,21),(3,4,7),(8,10,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,12),(9,11,21),(8,10,19)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(7,9,17),(4,5,10)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,5),(3,4,7),(7,9,17),(15,19,36)); lvl=2; h,r-ind=1,1
      [3,3]((10,13,24),(3,4,7),(15,19,36)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,24),(7,9,17),(15,19,36)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,3,5),(10,13,24),(7,9,17)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,5),(10,13,24),(3,4,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,5),(0,1,0),(3,4,7)); lvl=2; h,r-ind=1,1
  [6,3]((7,8,18),(4,5,10),(5,6,13),(5,6,12),(7,8,17),(8,9,20)); lvl=1; h,r-ind=1,1
    [3,3]((7,8,17),(6,7,15),(8,9,20)); lvl=2; h,r-ind=1,1
    [3,3]((7,8,18),(6,7,15),(8,9,20)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,13),(7,8,18),(6,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,10),(5,6,13),(6,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,12),(7,8,17),(6,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,10),(5,6,12),(6,7,15)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,2),(4,4,9)); lvl=1; h,r-ind=1,1
```

24.90 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,11,24)); lvl=0; h,r-ind=24,192
  [3,3]((2,2,3),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((6,7,15),(1,1,2),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,13),(6,7,15),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((9,11,24),(5,6,13),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,2,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,7),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,7),(5,6,12),(1,1,2)); lvl=1; h,r-ind=1,1
  [4,3]((6,7,15),(10,12,25),(5,6,12),(1,1,2)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,12),(10,12,25),(11,13,27)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,15),(10,12,25),(11,13,27)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(6,7,15),(11,13,27)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(5,6,12),(11,13,27)); lvl=2; h,r-ind=1,1
  [6,3]((3,4,8),(2,3,5),(3,4,7),(9,11,23),(10,12,25),(5,6,12)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,10),(5,6,12),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(4,5,10),(3,4,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(2,3,5),(4,5,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,10),(5,6,12),(10,12,25)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,10),(10,12,25),(9,11,23)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,8),(4,5,10),(9,11,23)); lvl=2; h,r-ind=1,1
  [4,3]((5,6,13),(6,7,15),(9,11,23),(10,12,25)); lvl=1; h,r-ind=1,1
    [3,3]((15,18,38),(10,12,25),(6,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,13),(15,18,38),(6,7,15)); lvl=2; h,r-ind=1,1
    [3,3]((9,11,23),(15,18,38),(10,12,25)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,13),(9,11,23),(15,18,38)); lvl=2; h,r-ind=1,1
  [4,3]((9,11,24),(3,4,8),(5,6,13),(9,11,23)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,8),(8,10,21),(9,11,23)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,13),(8,10,21),(9,11,23)); lvl=2; h,r-ind=1,1
    [3,3]((5,6,13),(9,11,24),(8,10,21)); lvl=2; h,r-ind=1,1
    [3,3]((9,11,24),(3,4,8),(8,10,21)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,5),(3,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,8),(0,1,0),(2,3,5)); lvl=1; h,r-ind=1,1
```

24.91 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,14,24)); lvl=0; h,r-ind=24,96
  [4,3]((2,3,5),(1,0,0),(2,2,3),(7,9,14)); lvl=1; h,r-ind=1,1
    [3,3]((4,5,8),(1,0,0),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,14),(4,5,8),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(7,9,14),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,5),(4,5,8),(1,0,0)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,6),(4,5,7),(2,2,3),(7,9,14)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(4,5,7),(5,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(4,5,7),(5,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(7,9,14),(5,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,14),(2,2,3),(5,6,9)); lvl=2; h,r-ind=1,1
  [6,3]((3,4,6),(4,6,9),(4,5,7),(3,5,7),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,5),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,7),(2,3,4),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,9),(3,5,7),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,7),(2,3,4),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(4,5,7),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(4,6,9),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,5,7),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,5),(3,4,6),(4,6,9),(7,9,14)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,9),(5,7,11),(3,4,6)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,14),(5,7,11),(3,4,6)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((2,3,5),(4,6,9),(5,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((7,9,14),(2,3,5),(5,7,11)); lvl=2; h,r-ind=1,1
  [3,3]((2,3,5),(4,6,9),(3,5,7)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,8),(2,3,5),(0,1,0),(3,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,5),(2,4,5),(3,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,4,5),(3,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,8),(2,3,5),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,5,8),(2,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((4,5,7),(2,3,3),(1,0,0),(2,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((2,2,3),(8,9,12),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((3,3,4),(1,1,1),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,3,4),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,3,4),(1,0,0)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,5),(5,6,8),(8,9,12),(1,1,1)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,9),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(6,7,9),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,9),(1,1,1),(8,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(6,7,9),(1,1,1)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,7),(2,2,3),(5,6,8),(8,9,12)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,3),(8,9,12),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(8,9,12),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(5,6,8),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(2,2,3),(7,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(4,5,7),(5,6,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,3,5),(1,0,0),(5,7,12)); lvl=1; h,r-ind=1,1
  [3,3]((9,14,24),(2,3,5),(5,7,12)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,8),(9,14,24),(2,3,5)); lvl=1; h,r-ind=1,1
```

24.92 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,16,24)); lvl=0; h,r-ind=24,24
  [4,3]((2,3,3),(9,16,21),(3,5,7),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,9),(9,16,21),(3,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((7,12,15),(2,3,4),(4,7,9),(3,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((6,10,13),(2,3,4),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((6,10,13),(4,7,9),(3,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,15),(6,10,13),(4,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,15),(6,10,13),(2,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,3),(7,12,15),(1,1,1),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(3,5,6),(6,9,11)); lvl=3; h,r-ind=1,1
      [4,3]((1,1,1),(2,3,3),(3,5,6),(6,9,11)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,6,7),(2,3,3),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((6,9,11),(4,6,7),(3,5,6)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(6,9,11),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(4,6,7),(2,3,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,4),(6,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(7,12,15),(3,5,6)); lvl=3; h,r-ind=1,1
  [4,3]((1,0,0),(5,8,12),(3,5,7),(1,1,1)); lvl=1; h,r-ind=2,1
    [4,3]((5,8,12),(3,4,6),(2,3,4),(3,5,7)); lvl=2; h,r-ind=1,1
      [4,3]((4,6,9),(9,14,20),(3,4,6),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,14,20),(6,9,13),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,6),(6,9,13),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(3,4,6),(6,9,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,6,9),(9,14,20),(6,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,7),(9,14,20),(2,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((5,8,12),(4,6,9),(3,5,7),(9,14,20)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,11,16),(4,6,9),(9,14,20)); lvl=4; h,r-ind=1,1
        [3,3]((7,11,16),(3,5,7),(9,14,20)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,12),(7,11,16),(3,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((5,8,12),(7,11,16),(4,6,9)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,0),(1,1,1),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(5,6,8),(2,3,4)); lvl=3; h,r-ind=1,1
      [4,3]((2,2,3),(3,4,6),(5,6,8),(2,3,4)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,5,7),(2,3,4),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(4,5,7),(3,4,6)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,8),(4,5,7),(2,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(5,6,8),(4,5,7)); lvl=4; h,r-ind=1,1
      [4,3]((1,0,0),(2,2,3),(1,1,1),(5,6,8)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,4),(2,2,3),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(3,3,4),(5,6,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(3,3,4),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=4; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((0,1,0),(2,3,3),(9,16,21)); lvl=1; h,r-ind=15,15; optimized-h
  [3,3]((9,17,24),(0,1,0),(9,16,21)); lvl=1; h,r-ind=27,9; alert-h-inc
    [3,3]((2,4,5),(5,9,12),(13,24,33)); lvl=2; h,r-ind=3,3; optimized-h
    [4,3]((2,4,5),(3,6,8),(9,17,24),(13,24,33)); lvl=2; h,r-ind=1,1
      [4,3]((3,6,8),(9,17,24),(15,28,39),(15,29,39)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((10,19,26),(8,15,21),(15,28,39)); lvl=4; h,r-ind=1,1
        [3,3]((10,19,26),(24,46,63),(8,15,21)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((3,6,8),(9,17,24),(24,46,63),(8,15,21)); lvl=4; h,r-ind=1,3
          [3,3]((11,21,29),(9,17,24),(8,15,21)); lvl=5; h,r-ind=1,1
          [3,3]((24,46,63),(11,21,29),(8,15,21)); lvl=5; h,r-ind=1,1
          [3,3]((3,6,8),(24,46,63),(11,21,29)); lvl=5; h,r-ind=1,1
          [3,3]((3,6,8),(11,21,29),(9,17,24)); lvl=5; h,r-ind=1,1
        [4,3]((3,6,8),(15,29,39),(10,19,26),(24,46,63)); lvl=4; h,r-ind=1,3
          [3,3]((15,29,39),(13,25,34),(10,19,26)); lvl=5; h,r-ind=1,1
          [3,3]((24,46,63),(13,25,34),(10,19,26)); lvl=5; h,r-ind=1,1
          [3,3]((3,6,8),(24,46,63),(13,25,34)); lvl=5; h,r-ind=1,1
          [3,3]((3,6,8),(15,29,39),(13,25,34)); lvl=5; h,r-ind=1,1
      [4,3]((2,4,5),(7,13,18),(15,28,39),(15,29,39)); lvl=3; h,r-ind=1,1
        [4,3]((10,19,26),(19,36,49),(7,13,18),(15,28,39)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((17,32,44),(7,13,18),(19,36,49)); lvl=5; h,r-ind=1,1
          [3,3]((10,19,26),(17,32,44),(19,36,49)); lvl=5; h,r-ind=1,1
          [3,3]((15,28,39),(17,32,44),(7,13,18)); lvl=5; h,r-ind=1,1
          [3,3]((10,19,26),(15,28,39),(17,32,44)); lvl=5; h,r-ind=1,1
        [3,3]((2,4,5),(10,19,26),(19,36,49)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(15,29,39),(10,19,26)); lvl=4; h,r-ind=1,1
        [3,3]((2,4,5),(19,36,49),(7,13,18)); lvl=4; h,r-ind=1,1
      [3,3]((2,4,5),(13,24,33),(7,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((2,4,5),(3,6,8),(15,29,39)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(2,4,5),(3,6,8)); lvl=2; h,r-ind=1,1
  [4,3]((9,16,21),(9,17,21),(2,4,5),(5,9,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(6,11,14),(9,17,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,4,5),(13,24,31),(6,11,14)); lvl=3; h,r-ind=1,1
    [4,3]((5,9,12),(9,16,21),(13,24,31),(6,11,14)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((11,20,26),(6,11,14),(9,16,21)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,12),(11,20,26),(9,16,21)); lvl=4; h,r-ind=1,1
      [3,3]((13,24,31),(11,20,26),(6,11,14)); lvl=4; h,r-ind=1,1
      [3,3]((5,9,12),(13,24,31),(11,20,26)); lvl=4; h,r-ind=1,1
    [3,3]((5,9,12),(2,4,5),(13,24,31)); lvl=3; h,r-ind=1,1
  [3,3]((9,17,21),(0,1,0),(2,4,5)); lvl=2; h,r-ind=3,3; optimized-h
[5,3]((9,16,24),(9,17,24),(5,8,12),(9,16,21),(3,5,7)); lvl=1; h,r-ind=1,1
  [4,3]((7,12,17),(3,5,7),(9,16,21),(5,9,12)); lvl=2; h,r-ind=1,2; alert-r-inc
    [3,3]((8,14,19),(3,5,7),(9,16,21)); lvl=3; h,r-ind=1,1
    [3,3]((8,14,19),(5,9,12),(9,16,21)); lvl=3; h,r-ind=1,1
    [3,3]((7,12,17),(8,14,19),(5,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((7,12,17),(8,14,19),(3,5,7)); lvl=3; h,r-ind=1,1
  [4,3]((7,12,17),(9,16,23),(13,24,33),(5,9,12)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc
    [3,3]((11,20,28),(6,11,15),(13,24,33)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,10),(11,20,28),(6,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((5,9,12),(4,7,10),(6,11,15)); lvl=3; h,r-ind=1,1
    [3,3]((5,9,12),(7,12,17),(4,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((4,7,10),(9,16,23),(11,20,28)); lvl=3; h,r-ind=1,1
  [4,3]((9,17,24),(6,11,16),(9,16,23),(13,24,33)); lvl=2; h,r-ind=1,1
    [3,3]((11,20,28),(5,9,13),(9,16,23)); lvl=3; h,r-ind=1,1
    [3,3]((7,13,18),(11,20,28),(5,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((15,28,39),(7,13,18),(5,9,13)); lvl=3; h,r-ind=1,1
    [4,3]((9,17,24),(15,28,39),(6,11,16),(5,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((8,15,21),(5,9,13),(19,35,50)); lvl=4; h,r-ind=1,1
      [3,3]((6,11,16),(5,9,13),(19,35,50)); lvl=4; h,r-ind=1,1
      [4,3]((6,11,16),(9,17,24),(8,15,21),(19,35,50)); lvl=4; h,r-ind=1,2; alert-r-inc
        [3,3]((14,26,37),(9,17,24),(8,15,21)); lvl=5; h,r-ind=1,1
        [3,3]((19,35,50),(14,26,37),(8,15,21)); lvl=5; h,r-ind=1,1
        [3,3]((6,11,16),(19,35,50),(14,26,37)); lvl=5; h,r-ind=1,1
        [3,3]((6,11,16),(14,26,37),(9,17,24)); lvl=5; h,r-ind=1,1
      [3,3]((8,15,21),(15,28,39),(5,9,13)); lvl=4; h,r-ind=1,1
    [3,3]((13,24,33),(7,13,18),(11,20,28)); lvl=3; h,r-ind=1,1
  [4,3]((5,8,12),(7,12,18),(7,12,17),(9,16,23)); lvl=2; h,r-ind=4,2; alert-h-inc; alert-r-inc
    [3,3]((7,12,18),(4,7,10),(9,16,23)); lvl=3; h,r-ind=1,1
    [3,3]((7,12,18),(6,10,15),(4,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((5,8,12),(6,10,15),(4,7,10)); lvl=3; h,r-ind=1,1
    [3,3]((7,12,17),(5,8,12),(4,7,10)); lvl=3; h,r-ind=1,1
  [4,3]((6,11,16),(9,16,24),(7,12,18),(9,16,23)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,13),(8,14,21),(7,12,18)); lvl=3; h,r-ind=1,1
    [3,3]((9,16,23),(5,9,13),(7,12,18)); lvl=3; h,r-ind=1,1
    [4,3]((6,11,16),(5,9,13),(8,14,21),(9,16,24)); lvl=3; h,r-ind=1,1
      [3,3]((14,25,37),(8,14,21),(5,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((6,11,16),(14,25,37),(5,9,13)); lvl=4; h,r-ind=1,1
      [3,3]((9,16,24),(6,11,16),(14,25,37)); lvl=4; h,r-ind=1,1
      [3,3]((9,16,24),(14,25,37),(8,14,21)); lvl=4; h,r-ind=1,1
  [3,3]((5,8,12),(7,12,17),(3,5,7)); lvl=2; h,r-ind=1,1
```

24.93 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,17,24)); lvl=0; h,r-ind=24,192
  [3,3]((1,0,0),(2,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,3),(9,16,21),(2,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((4,7,9),(7,12,15),(2,3,4),(8,12,15)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(5,8,10),(8,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(11,18,23),(5,8,10)); lvl=3; h,r-ind=1,1
      [4,3]((7,12,15),(4,7,9),(11,18,23),(5,8,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,15,19),(4,7,9),(11,18,23)); lvl=4; h,r-ind=1,1
        [3,3]((9,15,19),(5,8,10),(11,18,23)); lvl=4; h,r-ind=1,1
        [3,3]((7,12,15),(9,15,19),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((7,12,15),(9,15,19),(4,7,9)); lvl=4; h,r-ind=1,1
      [3,3]((4,7,9),(2,3,4),(11,18,23)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,4),(8,12,15)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,3),(1,1,1),(7,12,15),(8,12,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,1,1),(10,15,18),(5,8,10),(8,12,15)); lvl=3; h,r-ind=1,3
        [3,3]((6,9,11),(10,15,18),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((8,12,15),(6,9,11),(5,8,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(8,12,15),(6,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(6,9,11),(10,15,18)); lvl=4; h,r-ind=1,1
      [4,3]((3,5,6),(2,3,3),(1,1,1),(10,15,18)); lvl=3; h,r-ind=1,3
        [3,3]((1,1,1),(4,6,7),(2,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,6),(4,6,7),(2,3,3)); lvl=4; h,r-ind=1,1
        [3,3]((10,15,18),(3,5,6),(4,6,7)); lvl=4; h,r-ind=1,1
        [3,3]((10,15,18),(1,1,1),(4,6,7)); lvl=4; h,r-ind=1,1
      [3,3]((3,5,6),(10,15,18),(5,8,10)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((7,12,15),(3,5,6),(5,8,10)); lvl=3; h,r-ind=1,1
    [3,3]((9,16,21),(4,7,9),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(9,16,21)); lvl=1; h,r-ind=15,15; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(3,5,7),(2,3,4)); lvl=1; h,r-ind=1,1
  [5,3]((6,11,15),(9,16,21),(10,18,25),(3,5,7),(2,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((9,16,22),(8,14,19),(3,5,7),(13,22,30)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((11,19,26),(8,14,19),(13,22,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(11,19,26),(13,22,30)); lvl=3; h,r-ind=1,1
      [3,3]((9,16,22),(11,19,26),(8,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,7),(9,16,22),(11,19,26)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(3,5,7),(13,22,30)); lvl=2; h,r-ind=1,1
    [4,3]((5,9,12),(2,3,4),(8,14,19),(13,22,30)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,4),(13,22,30),(10,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((8,14,19),(13,22,30),(10,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,12),(8,14,19),(10,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((5,9,12),(2,3,4),(10,17,23)); lvl=3; h,r-ind=1,1
    [3,3]((9,16,21),(5,9,12),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((10,18,25),(9,16,22),(3,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,15),(10,18,25),(9,16,22)); lvl=2; h,r-ind=1,1
    [4,3]((6,11,15),(5,9,12),(9,16,22),(8,14,19)); lvl=2; h,r-ind=1,1
      [3,3]((14,25,34),(5,9,12),(8,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((9,16,22),(14,25,34),(8,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,15),(9,16,22),(14,25,34)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,15),(14,25,34),(5,9,12)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(3,6,8),(6,11,15),(9,16,21)); lvl=1; h,r-ind=3,3
    [3,3]((2,4,5),(3,6,8),(6,11,15)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,12),(2,4,5),(6,11,15)); lvl=2; h,r-ind=1,1
    [4,3]((9,16,21),(5,9,12),(9,17,21),(2,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((13,24,31),(2,4,5),(5,9,12)); lvl=3; h,r-ind=1,1
      [4,3]((9,16,21),(6,11,14),(13,24,31),(5,9,12)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,11,14),(11,20,26),(13,24,31)); lvl=4; h,r-ind=1,1
        [3,3]((5,9,12),(11,20,26),(13,24,31)); lvl=4; h,r-ind=1,1
        [3,3]((9,16,21),(5,9,12),(11,20,26)); lvl=4; h,r-ind=1,1
        [3,3]((9,16,21),(6,11,14),(11,20,26)); lvl=4; h,r-ind=1,1
      [3,3]((6,11,14),(13,24,31),(2,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((9,17,21),(6,11,14),(2,4,5)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(9,17,21),(2,4,5)); lvl=2; h,r-ind=3,3; optimized-h
    [3,3]((0,1,0),(2,4,5),(3,6,8)); lvl=2; h,r-ind=1,1
  [3,3]((11,20,28),(10,18,25),(3,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((9,17,24),(11,20,28),(3,5,7)); lvl=1; h,r-ind=1,1
  [4,3]((6,11,15),(8,15,21),(11,20,28),(10,18,25)); lvl=1; h,r-ind=1,1
    [4,3]((7,13,18),(28,51,71),(11,20,28),(8,15,21)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((18,33,46),(28,51,71),(11,20,28)); lvl=3; h,r-ind=1,1
      [3,3]((8,15,21),(18,33,46),(11,20,28)); lvl=3; h,r-ind=1,1
      [3,3]((7,13,18),(8,15,21),(18,33,46)); lvl=3; h,r-ind=1,1
      [3,3]((7,13,18),(18,33,46),(28,51,71)); lvl=3; h,r-ind=1,1
    [3,3]((10,18,25),(28,51,71),(11,20,28)); lvl=2; h,r-ind=1,1
    [4,3]((6,11,15),(7,13,18),(10,18,25),(28,51,71)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,13,18),(17,31,43),(28,51,71)); lvl=3; h,r-ind=1,1
      [3,3]((10,18,25),(17,31,43),(28,51,71)); lvl=3; h,r-ind=1,1
      [3,3]((6,11,15),(10,18,25),(17,31,43)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((6,11,15),(7,13,18),(17,31,43)); lvl=3; h,r-ind=1,1
  [3,3]((3,6,8),(6,11,15),(8,15,21)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((9,17,24),(3,6,8),(8,15,21)); lvl=1; h,r-ind=1,1
  [3,3]((9,17,24),(8,15,21),(11,20,28)); lvl=1; h,r-ind=1,1
  [3,3]((9,17,24),(1,0,0),(3,5,7)); lvl=1; h,r-ind=1,1
```

24.94 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,19,24)); lvl=0; h,r-ind=24,192
  [3,3]((2,4,5),(1,0,0),(3,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(1,0,0),(3,5,6)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,3),(1,1,1),(4,7,8),(3,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,9),(3,5,6),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(5,8,9),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(5,8,9),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(4,7,8),(5,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((3,6,7),(4,7,8),(2,4,5),(3,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((6,11,13),(3,5,6),(4,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(6,11,13),(4,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,4,5),(6,11,13),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(2,4,5),(6,11,13)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,6,7),(2,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(9,20,24),(2,4,5)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((9,19,24),(9,20,24),(2,4,5)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((0,1,0),(2,3,3),(3,6,7),(4,7,8)); lvl=1; h,r-ind=1,4
    [3,3]((1,2,2),(2,3,3),(4,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(1,2,2),(4,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,6,7),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
  [3,3]((9,19,24),(2,4,5),(1,0,0)); lvl=1; h,r-ind=1,1
```

24.95 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,20,24)); lvl=0; h,r-ind=24,48
  [4,3]((3,6,7),(1,1,1),(10,21,24),(2,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,1,1),(8,15,17),(4,8,9),(2,3,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,9,10),(8,15,17),(4,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(5,9,10),(4,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(5,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(5,9,10),(8,15,17)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,7),(1,1,1),(8,15,17)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(8,15,17),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,6,7),(10,21,24),(4,8,9)); lvl=2; h,r-ind=1,1
  [4,3]((3,7,7),(7,15,17),(10,21,24),(2,3,3)); lvl=1; h,r-ind=1,1
    [5,3]((7,15,17),(10,21,24),(12,25,28),(21,44,49),(8,17,19)); lvl=2; h,r-ind=1,1
      [5,3]((7,15,17),(34,72,81),(19,40,45),(10,21,24),(11,23,26)); lvl=3; h,r-ind=1,1
        [3,3]((37,78,88),(19,40,45),(11,23,26)); lvl=4; h,r-ind=1,1
        [4,3]((44,93,105),(18,38,43),(37,78,88),(11,23,26)); lvl=4; h,r-ind=1,1
          [3,3]((11,23,26),(18,38,43),(55,116,131)); lvl=5; h,r-ind=1,1
          [3,3]((44,93,105),(18,38,43),(55,116,131)); lvl=5; h,r-ind=1,1
          [3,3]((37,78,88),(44,93,105),(55,116,131)); lvl=5; h,r-ind=1,1
          [3,3]((37,78,88),(11,23,26),(55,116,131)); lvl=5; h,r-ind=1,1
        [3,3]((18,38,43),(10,21,24),(11,23,26)); lvl=4; h,r-ind=1,1
        [3,3]((7,15,17),(18,38,43),(10,21,24)); lvl=4; h,r-ind=1,1
        [3,3]((7,15,17),(44,93,105),(18,38,43)); lvl=4; h,r-ind=1,1
        [4,3]((26,55,62),(44,93,105),(37,78,88),(19,40,45)); lvl=4; h,r-ind=1,1
          [3,3]((63,133,150),(37,78,88),(44,93,105)); lvl=5; h,r-ind=1,1
          [3,3]((26,55,62),(63,133,150),(44,93,105)); lvl=5; h,r-ind=1,1
          [3,3]((19,40,45),(26,55,62),(63,133,150)); lvl=5; h,r-ind=1,1
          [3,3]((19,40,45),(63,133,150),(37,78,88)); lvl=5; h,r-ind=1,1
        [3,3]((26,55,62),(34,72,81),(19,40,45)); lvl=4; h,r-ind=1,1
        [3,3]((7,15,17),(26,55,62),(34,72,81)); lvl=4; h,r-ind=1,1
        [3,3]((7,15,17),(26,55,62),(44,93,105)); lvl=4; h,r-ind=1,1
      [4,3]((19,40,45),(12,25,28),(20,42,47),(11,23,26)); lvl=3; h,r-ind=1,1
        [3,3]((20,42,47),(12,25,28),(31,65,73)); lvl=4; h,r-ind=1,1
        [3,3]((11,23,26),(12,25,28),(31,65,73)); lvl=4; h,r-ind=1,1
        [3,3]((19,40,45),(20,42,47),(31,65,73)); lvl=4; h,r-ind=1,1
        [3,3]((11,23,26),(19,40,45),(31,65,73)); lvl=4; h,r-ind=1,1
      [3,3]((12,25,28),(20,42,47),(21,44,49)); lvl=3; h,r-ind=1,1
      [3,3]((8,17,19),(20,42,47),(21,44,49)); lvl=3; h,r-ind=1,1
      [4,3]((8,17,19),(34,72,81),(19,40,45),(20,42,47)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((34,72,81),(27,57,64),(19,40,45)); lvl=4; h,r-ind=1,1
```

```
      [3,3]((20,42,47),(27,57,64),(19,40,45)); lvl=4; h,r-ind=1,1
      [3,3]((8,17,19),(20,42,47),(27,57,64)); lvl=4; h,r-ind=1,1
      [3,3]((8,17,19),(34,72,81),(27,57,64)); lvl=4; h,r-ind=1,1
    [3,3]((7,15,17),(8,17,19),(34,72,81)); lvl=3; h,r-ind=1,1
  [4,3]((5,11,12),(1,2,2),(21,44,49),(8,17,19)); lvl=2; h,r-ind=1,1
    [3,3]((9,19,21),(1,2,2),(21,44,49)); lvl=3; h,r-ind=1,1
    [3,3]((8,17,19),(9,19,21),(21,44,49)); lvl=3; h,r-ind=1,1
    [3,3]((8,17,19),(5,11,12),(9,19,21)); lvl=3; h,r-ind=1,1
    [3,3]((5,11,12),(9,19,21),(1,2,2)); lvl=3; h,r-ind=1,1
  [3,3]((3,7,7),(5,11,12),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((5,11,12),(7,15,17),(8,17,19)); lvl=2; h,r-ind=1,1
  [3,3]((4,8,9),(10,21,24),(12,25,28)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,2,2),(4,8,9),(12,25,28),(21,44,49)); lvl=2; h,r-ind=1,1
    [3,3]((4,8,9),(13,27,30),(12,25,28)); lvl=3; h,r-ind=1,1
    [3,3]((21,44,49),(13,27,30),(12,25,28)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(21,44,49),(13,27,30)); lvl=3; h,r-ind=1,1
    [3,3]((1,2,2),(4,8,9),(13,27,30)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,2),(2,3,3),(4,8,9)); lvl=2; h,r-ind=1,1
[3,3]((3,7,7),(0,1,0),(2,3,3)); lvl=1; h,r-ind=5,5; optimized-h
[3,3]((3,7,7),(2,5,5),(0,1,0)); lvl=1; h,r-ind=1,1
[3,3]((3,7,8),(2,5,5),(0,1,0)); lvl=1; h,r-ind=1,1
[3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
[5,3]((9,20,24),(6,13,15),(3,6,7),(5,10,12),(10,21,24)); lvl=1; h,r-ind=1,1
  [3,3]((9,19,22),(10,21,24),(6,13,15)); lvl=2; h,r-ind=1,1
  [4,3]((5,11,13),(8,17,20),(9,19,22),(6,13,15)); lvl=2; h,r-ind=1,1
    [3,3]((9,19,22),(8,17,20),(14,30,35)); lvl=3; h,r-ind=1,1
    [3,3]((5,11,13),(8,17,20),(14,30,35)); lvl=3; h,r-ind=1,1
    [3,3]((6,13,15),(5,11,13),(14,30,35)); lvl=3; h,r-ind=1,1
    [3,3]((6,13,15),(9,19,22),(14,30,35)); lvl=3; h,r-ind=1,1
  [3,3]((9,20,24),(5,11,13),(7,15,18)); lvl=2; h,r-ind=1,1
  [3,3]((3,6,7),(9,19,22),(10,21,24)); lvl=2; h,r-ind=1,1
  [4,3]((24,50,59),(8,17,20),(3,6,7),(9,19,22)); lvl=2; h,r-ind=1,3; alert-r-inc
    [3,3]((8,17,20),(9,19,22),(11,23,27)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,7),(9,19,22),(11,23,27)); lvl=3; h,r-ind=1,1
    [3,3]((24,50,59),(8,17,20),(11,23,27)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,7),(24,50,59),(11,23,27)); lvl=3; h,r-ind=1,1
  [4,3]((5,10,12),(13,27,32),(24,50,59),(3,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((13,27,32),(24,50,59),(16,33,39)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,7),(24,50,59),(16,33,39)); lvl=3; h,r-ind=1,1
    [3,3]((5,10,12),(13,27,32),(16,33,39)); lvl=3; h,r-ind=1,1
    [3,3]((3,6,7),(5,10,12),(16,33,39)); lvl=3; h,r-ind=1,1
  [3,3]((7,15,18),(5,10,12),(13,27,32)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [5,3]((5,11,13),(7,15,18),(13,27,32),(24,50,59),(8,17,20)); lvl=2; h,r-ind=1,1
    [4,3]((13,27,32),(10,21,25),(18,38,45),(21,44,52)); lvl=3; h,r-ind=1,1
      [3,3]((18,38,45),(10,21,25),(31,65,77)); lvl=4; h,r-ind=1,1
      [3,3]((13,27,32),(10,21,25),(31,65,77)); lvl=4; h,r-ind=1,1
      [3,3]((21,44,52),(13,27,32),(31,65,77)); lvl=4; h,r-ind=1,1
      [3,3]((21,44,52),(18,38,45),(31,65,77)); lvl=4; h,r-ind=1,1
    [4,3]((31,66,78),(8,17,20),(18,38,45),(21,44,52)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((8,17,20),(21,44,52),(26,55,65)); lvl=4; h,r-ind=1,1
      [3,3]((18,38,45),(21,44,52),(26,55,65)); lvl=4; h,r-ind=1,1
      [3,3]((31,66,78),(8,17,20),(26,55,65)); lvl=4; h,r-ind=1,1
      [3,3]((18,38,45),(31,66,78),(26,55,65)); lvl=4; h,r-ind=1,1
    [3,3]((5,11,13),(31,66,78),(8,17,20)); lvl=3; h,r-ind=1,1
    [3,3]((13,27,32),(24,50,59),(21,44,52)); lvl=3; h,r-ind=1,1
    [3,3]((8,17,20),(24,50,59),(21,44,52)); lvl=3; h,r-ind=1,1
    [5,3]((5,11,13),(31,66,78),(7,15,18),(10,21,25),(18,38,45)); lvl=3; h,r-ind=1,1
      [3,3]((10,21,25),(18,38,45),(33,70,83)); lvl=4; h,r-ind=1,1
      [4,3]((38,81,96),(23,49,58),(18,38,45),(33,70,83)); lvl=4; h,r-ind=1,1
        [3,3]((23,49,58),(18,38,45),(56,119,141)); lvl=5; h,r-ind=1,1
        [3,3]((33,70,83),(18,38,45),(56,119,141)); lvl=5; h,r-ind=1,1
        [3,3]((38,81,96),(23,49,58),(56,119,141)); lvl=5; h,r-ind=1,1
        [3,3]((33,70,83),(38,81,96),(56,119,141)); lvl=5; h,r-ind=1,1
      [3,3]((5,11,13),(38,81,96),(23,49,58)); lvl=4; h,r-ind=1,1
      [3,3]((31,66,78),(23,49,58),(18,38,45)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,13),(31,66,78),(23,49,58)); lvl=4; h,r-ind=1,1
      [4,3]((15,32,38),(38,81,96),(10,21,25),(33,70,83)); lvl=4; h,r-ind=1,1
        [3,3]((38,81,96),(33,70,83),(48,102,121)); lvl=5; h,r-ind=1,1
        [3,3]((10,21,25),(33,70,83),(48,102,121)); lvl=5; h,r-ind=1,1
        [3,3]((15,32,38),(38,81,96),(48,102,121)); lvl=5; h,r-ind=1,1
        [3,3]((10,21,25),(15,32,38),(48,102,121)); lvl=5; h,r-ind=1,1
      [3,3]((15,32,38),(10,21,25),(7,15,18)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,13),(15,32,38),(7,15,18)); lvl=4; h,r-ind=1,1
      [3,3]((5,11,13),(15,32,38),(38,81,96)); lvl=4; h,r-ind=1,1
[3,3]((7,15,17),(6,13,15),(10,21,24)); lvl=1; h,r-ind=1,1
[5,3]((3,7,8),(3,7,7),(7,15,17),(2,5,5),(6,13,15)); lvl=1; h,r-ind=1,1
  [3,3]((4,9,10),(7,15,17),(6,13,15)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,8),(4,9,10),(6,13,15)); lvl=2; h,r-ind=1,1
  [3,3]((5,11,12),(4,9,10),(7,15,17)); lvl=2; h,r-ind=1,1
  [3,3]((3,7,7),(5,11,12),(4,9,10)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((3,7,7),(2,5,5),(4,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,8),(2,5,5),(4,9,10)); lvl=2; h,r-ind=1,1
  [3,3]((9,20,24),(3,7,8),(6,13,15)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,0,0),(3,6,7),(5,10,12),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((3,5,6),(7,12,14),(5,10,12),(3,6,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,11,13),(3,6,7),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(6,11,13),(5,10,12)); lvl=3; h,r-ind=1,1
      [3,3]((7,12,14),(6,11,13),(3,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(7,12,14),(6,11,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(7,12,14),(3,6,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(3,5,6),(1,1,1),(7,12,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,6,7),(3,5,6),(7,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(4,6,7),(7,12,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(4,6,7),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(4,6,7)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.96 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,22,24)); lvl=0; h,r-ind=24,96
  [4,3]((7,15,16),(1,2,2),(6,14,15),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((8,17,18),(1,2,2),(6,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((7,15,16),(8,17,18),(6,14,15)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(7,15,16),(8,17,18)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(8,17,18),(1,2,2)); lvl=2; h,r-ind=1,1
  [4,3]((7,15,16),(6,13,14),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((8,16,17),(1,1,1),(6,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((7,15,16),(8,16,17),(6,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(8,16,17),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((7,15,16),(2,3,3),(8,16,17)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(5,11,12),(6,13,14),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((6,12,13),(5,11,12),(6,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((6,12,13),(1,1,1),(6,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(6,12,13),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(6,12,13),(5,11,12)); lvl=2; h,r-ind=1,1
  [4,3]((7,15,16),(6,13,14),(5,12,13),(6,14,15)); lvl=1; h,r-ind=1,1
    [3,3]((12,27,29),(5,12,13),(6,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((7,15,16),(12,27,29),(6,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((6,14,15),(12,27,29),(5,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((7,15,16),(6,14,15),(12,27,29)); lvl=2; h,r-ind=1,1
  [4,3]((9,22,24),(5,11,12),(6,13,14),(5,12,13)); lvl=1; h,r-ind=1,1
    [3,3]((5,11,12),(6,13,14),(10,23,25)); lvl=2; h,r-ind=1,1
    [3,3]((5,12,13),(6,13,14),(10,23,25)); lvl=2; h,r-ind=1,1
    [3,3]((9,22,24),(5,12,13),(10,23,25)); lvl=2; h,r-ind=1,1
    [3,3]((9,22,24),(5,11,12),(10,23,25)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((8,19,20),(3,7,7),(1,2,2),(6,14,15)); lvl=1; h,r-ind=1,1
    [3,3]((9,21,22),(1,2,2),(3,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((8,19,20),(9,21,22),(3,7,7)); lvl=2; h,r-ind=1,1
    [3,3]((6,14,15),(8,19,20),(9,21,22)); lvl=2; h,r-ind=1,1
    [3,3]((6,14,15),(9,21,22),(1,2,2)); lvl=2; h,r-ind=1,1
  [4,3]((7,17,18),(5,12,13),(8,19,20),(6,14,15)); lvl=1; h,r-ind=1,1
    [3,3]((5,12,13),(6,14,15),(13,31,33)); lvl=2; h,r-ind=1,1
    [3,3]((8,19,20),(6,14,15),(13,31,33)); lvl=2; h,r-ind=1,1
    [3,3]((7,17,18),(5,12,13),(13,31,33)); lvl=2; h,r-ind=1,1
    [3,3]((8,19,20),(7,17,18),(13,31,33)); lvl=2; h,r-ind=1,1
  [4,3]((9,22,24),(7,17,18),(9,23,24),(5,12,13)); lvl=1; h,r-ind=1,1
    [3,3]((8,20,21),(7,17,18),(13,32,34)); lvl=2; h,r-ind=1,1
    [4,3]((5,12,13),(24,59,63),(7,17,18),(13,32,34)); lvl=2; h,r-ind=1,1
      [3,3]((18,44,47),(13,32,34),(24,59,63)); lvl=3; h,r-ind=1,1
      [3,3]((5,12,13),(18,44,47),(24,59,63)); lvl=3; h,r-ind=1,1
      [3,3]((7,17,18),(5,12,13),(18,44,47)); lvl=3; h,r-ind=1,1
      [3,3]((7,17,18),(18,44,47),(13,32,34)); lvl=3; h,r-ind=1,1
    [4,3]((6,15,16),(9,22,24),(5,12,13),(24,59,63)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((9,22,24),(11,27,29),(5,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((24,59,63),(11,27,29),(5,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((6,15,16),(9,22,24),(11,27,29)); lvl=3; h,r-ind=1,1
      [3,3]((24,59,63),(6,15,16),(11,27,29)); lvl=3; h,r-ind=1,1
    [4,3]((6,15,16),(24,59,63),(8,20,21),(13,32,34)); lvl=2; h,r-ind=1,1
      [3,3]((19,47,50),(13,32,34),(24,59,63)); lvl=3; h,r-ind=1,1
      [3,3]((6,15,16),(19,47,50),(24,59,63)); lvl=3; h,r-ind=1,1
      [3,3]((8,20,21),(19,47,50),(13,32,34)); lvl=3; h,r-ind=1,1
      [3,3]((6,15,16),(8,20,21),(19,47,50)); lvl=3; h,r-ind=1,1
    [3,3]((6,15,16),(9,23,24),(8,20,21)); lvl=2; h,r-ind=1,1
  [5,3]((0,1,0),(7,17,18),(9,23,24),(8,19,20),(3,7,7)); lvl=1; h,r-ind=1,1
```

```
    [3,3]((2,5,5),(3,8,8),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,7),(2,5,5),(0,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((8,19,20),(3,7,7),(2,5,5)); lvl=2; h,r-ind=1,1
    [4,3]((9,23,24),(8,20,21),(2,5,5),(3,8,8)); lvl=2; h,r-ind=1,1
      [3,3]((11,28,29),(2,5,5),(8,20,21)); lvl=3; h,r-ind=1,1
      [3,3]((9,23,24),(11,28,29),(8,20,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,8),(9,23,24),(11,28,29)); lvl=3; h,r-ind=1,1
      [3,3]((3,8,8),(11,28,29),(2,5,5)); lvl=3; h,r-ind=1,1
    [3,3]((7,17,18),(8,20,21),(2,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((7,17,18),(8,19,20),(2,5,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,7,7),(1,2,2)); lvl=1; h,r-ind=1,1
```

24.97 Resolved

```
[3,3]((1,0,0),(0,1,0),(9,23,24)); lvl=0; h,r-ind=24,192
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((9,23,24),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(0,1,0),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((9,23,24),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(9,23,24),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,7,7),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((9,23,24),(3,7,7),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,8,8),(3,7,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((9,23,24),(3,8,8),(3,7,7)); lvl=1; h,r-ind=3,3; optimized-h
```

24.98 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,11,24)); lvl=0; h,r-ind=24,288
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,5,9),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((7,8,16),(4,5,9),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((7,8,16),(9,10,21),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((10,11,24),(9,10,21),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((10,11,24),(7,7,15),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(7,7,15),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(10,11,24),(7,7,15)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(4,5,9),(3,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,6,12),(3,4,7)); lvl=1; h,r-ind=1,1
  [6,3]((7,8,16),(5,6,12),(8,9,19),(9,10,21),(4,5,9),(3,4,7)); lvl=1; h,r-ind=1,1
    [3,3]((8,9,19),(5,6,12),(6,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,7),(5,6,12),(6,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,9),(3,4,7),(6,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((7,8,16),(4,5,9),(6,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((9,10,21),(8,9,19),(6,7,14)); lvl=2; h,r-ind=1,1
    [3,3]((7,8,16),(9,10,21),(6,7,14)); lvl=2; h,r-ind=1,1
  [3,3]((10,11,24),(5,6,12),(8,9,19)); lvl=1; h,r-ind=1,1
  [3,3]((10,11,24),(8,9,19),(9,10,21)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
```

24.99 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,13,24)); lvl=0; h,r-ind=24,288
  [4,3]((1,0,0),(4,5,7),(2,2,3),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,8),(3,4,5),(4,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(5,6,8),(8,9,12),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((7,8,11),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(7,8,11),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,7),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(7,8,11),(8,9,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(1,0,0),(2,2,3),(8,9,12)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,12),(2,2,3),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(8,9,12),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(5,6,8),(8,9,12),(3,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,9),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(6,7,9),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(6,7,9)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((1,1,1),(6,7,9),(8,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(3,4,5)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,6),(1,2,2),(4,5,7),(2,3,3)); lvl=1; h,r-ind=2,1
    [4,3]((2,3,4),(3,4,5),(1,2,2),(2,3,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,5),(4,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(4,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,4),(4,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(2,3,3),(4,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,4),(3,4,6),(4,5,7),(3,4,5)); lvl=2; h,r-ind=1,1
      [3,3]((6,8,11),(4,5,7),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(6,8,11),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(6,8,11),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(6,8,11)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((4,6,9),(3,4,6),(5,7,11),(1,2,2)); lvl=1; h,r-ind=1,1
    [4,3]((11,16,24),(2,3,4),(3,4,6),(5,7,11)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,10,15),(2,3,4),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(7,10,15),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((11,16,24),(7,10,15),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(11,16,24),(7,10,15)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,9),(11,16,24),(5,7,11)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,9),(11,16,24),(2,3,4),(1,2,2)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,9,13),(2,3,4),(11,16,24)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(6,9,13),(11,16,24)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(6,9,13),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,9),(1,2,2),(6,9,13)); lvl=3; h,r-ind=1,1
  [3,3]((0,1,0),(4,6,9),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [5,3]((3,4,6),(4,5,7),(13,15,26),(2,2,3),(7,7,12)); lvl=1; h,r-ind=1,1
    [3,3]((3,3,5),(7,7,12),(10,11,19)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,12),(3,3,5),(10,11,19)); lvl=2; h,r-ind=1,1
    [3,3]((6,7,12),(13,15,26),(10,11,19)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,10),(15,17,28),(6,7,12),(3,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((3,3,5),(8,9,15),(15,17,28)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,10),(8,9,15),(15,17,28)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,10),(6,7,12),(8,9,15)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,12),(3,3,5),(8,9,15)); lvl=3; h,r-ind=1,1
    [4,3]((5,6,9),(15,17,28),(2,2,3),(3,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((2,2,3),(3,3,5),(14,15,24)); lvl=3; h,r-ind=1,1
      [4,3]((13,15,24),(7,8,13),(3,3,5),(14,15,24)); lvl=3; h,r-ind=1,1
        [3,3]((3,3,5),(7,8,13),(19,21,34)); lvl=4; h,r-ind=1,1
        [4,3]((13,15,24),(9,10,16),(7,8,13),(19,21,34)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((9,10,16),(16,18,29),(19,21,34)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,13),(16,18,29),(19,21,34)); lvl=5; h,r-ind=1,1
          [3,3]((13,15,24),(7,8,13),(16,18,29)); lvl=5; h,r-ind=1,1
          [3,3]((13,15,24),(9,10,16),(16,18,29)); lvl=5; h,r-ind=1,1
        [3,3]((9,10,16),(3,3,5),(19,21,34)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,16),(14,15,24),(3,3,5)); lvl=4; h,r-ind=1,1
      [3,3]((15,17,28),(7,8,13),(3,3,5)); lvl=3; h,r-ind=1,1
      [4,3]((5,6,9),(13,15,24),(2,2,3),(14,15,24)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [3,3]((6,7,11),(9,10,16),(19,21,33)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((2,2,3),(14,15,24),(9,10,16),(19,21,33)); lvl=4; h,r-ind=1,3
          [3,3]((11,12,19),(14,15,24),(9,10,16)); lvl=5; h,r-ind=1,1
          [3,3]((19,21,33),(11,12,19),(9,10,16)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(19,21,33),(11,12,19)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(11,12,19),(14,15,24)); lvl=5; h,r-ind=1,1
        [4,3]((2,2,3),(5,6,9),(6,7,11),(19,21,33)); lvl=4; h,r-ind=1,3
          [3,3]((8,9,14),(6,7,11),(5,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(8,9,14),(5,6,9)); lvl=5; h,r-ind=1,1
          [3,3]((19,21,33),(8,9,14),(6,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((2,2,3),(19,21,33),(8,9,14)); lvl=5; h,r-ind=1,1
        [3,3]((6,7,11),(13,15,24),(9,10,16)); lvl=4; h,r-ind=1,1
    [3,3]((5,6,9),(4,5,7),(2,2,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,6),(5,6,9),(4,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,6),(5,6,9),(5,6,10),(15,17,28)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,10),(7,8,13),(15,17,28)); lvl=3; h,r-ind=1,1
      [4,3]((4,5,8),(5,6,10),(7,8,13),(13,15,24)); lvl=3; h,r-ind=1,1
        [3,3]((5,6,10),(11,13,21),(7,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((13,15,24),(11,13,21),(7,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(13,15,24),(11,13,21)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,8),(5,6,10),(11,13,21)); lvl=4; h,r-ind=1,1
      [4,3]((3,4,6),(4,5,8),(5,6,9),(13,15,24)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,8),(13,15,24),(6,7,11)); lvl=4; h,r-ind=1,1
        [3,3]((13,16,25),(4,5,8),(6,7,11)); lvl=4; h,r-ind=1,1
        [4,3]((3,4,6),(13,16,25),(5,6,9),(6,7,11)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((9,11,17),(13,16,25),(6,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((5,6,9),(9,11,17),(6,7,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,6),(5,6,9),(9,11,17)); lvl=5; h,r-ind=1,1
          [3,3]((3,4,6),(9,11,17),(13,16,25)); lvl=5; h,r-ind=1,1
        [3,3]((3,4,6),(13,16,25),(4,5,8)); lvl=4; h,r-ind=1,1
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[5,3]((3,4,6),(5,7,11),(3,4,7),(4,5,9),(13,15,26)); lvl=1; h,r-ind=1,1
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  [3,3]((3,4,6),(6,8,13),(5,7,11)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,7),(8,10,17),(22,28,49),(6,8,13)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
    [3,3]((8,10,17),(14,18,31),(7,9,15)); lvl=3; h,r-ind=2,2; optimized-h
    [4,3]((3,4,7),(6,8,13),(14,18,31),(7,9,15)); lvl=3; h,r-ind=1,2
      [3,3]((7,9,15),(14,18,31),(10,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,7),(14,18,31),(10,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((6,8,13),(7,9,15),(10,13,22)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,7),(6,8,13),(10,13,22)); lvl=4; h,r-ind=1,1
    [3,3]((15,19,33),(8,10,17),(14,18,31)); lvl=3; h,r-ind=2,2; optimized-h
    [4,3]((3,4,7),(15,19,33),(22,28,49),(14,18,31)); lvl=3; h,r-ind=1,2
      [3,3]((18,23,40),(15,19,33),(22,28,49)); lvl=4; h,r-ind=1,1
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      [3,3]((14,18,31),(18,23,40),(15,19,33)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,7),(14,18,31),(18,23,40)); lvl=4; h,r-ind=1,1
  [3,3]((3,4,7),(22,28,49),(4,5,9)); lvl=2; h,r-ind=1,1
  [5,3]((6,7,12),(5,6,10),(8,10,17),(22,28,49),(4,5,9)); lvl=2; h,r-ind=1,1
    [3,3]((17,21,36),(8,10,17),(5,6,10)); lvl=3; h,r-ind=1,1
    [4,3]((9,11,19),(17,21,36),(21,26,45),(5,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((26,32,55),(21,26,45),(17,21,36)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,10),(26,32,55),(17,21,36)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,19),(5,6,10),(26,32,55)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,19),(26,32,55),(21,26,45)); lvl=4; h,r-ind=1,1
    [3,3]((6,7,12),(9,11,19),(5,6,10)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,12),(9,11,19),(4,5,9)); lvl=3; h,r-ind=1,1
    [5,3]((17,21,36),(21,26,45),(16,20,35),(8,10,17),(15,19,33)); lvl=3; h,r-ind=1,1
      [3,3]((12,15,26),(16,20,35),(15,19,33)); lvl=4; h,r-ind=1,1
      [3,3]((12,15,26),(8,10,17),(15,19,33)); lvl=4; h,r-ind=1,1
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    [4,3]((9,11,19),(21,26,45),(4,5,9),(16,20,35)); lvl=3; h,r-ind=1,1
      [3,3]((25,31,54),(16,20,35),(4,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,19),(25,31,54),(4,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((21,26,45),(25,31,54),(16,20,35)); lvl=4; h,r-ind=1,1
      [3,3]((9,11,19),(21,26,45),(25,31,54)); lvl=4; h,r-ind=1,1
    [4,3]((4,5,9),(16,20,35),(15,19,33),(22,28,49)); lvl=3; h,r-ind=1,2; alert-r-inc
      [3,3]((19,24,42),(16,20,35),(15,19,33)); lvl=4; h,r-ind=1,1
      [3,3]((22,28,49),(19,24,42),(15,19,33)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,9),(22,28,49),(19,24,42)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,9),(19,24,42),(16,20,35)); lvl=4; h,r-ind=1,1
  [3,3]((6,7,12),(13,15,26),(4,5,9)); lvl=2; h,r-ind=1,1
  [4,3]((3,4,6),(5,6,10),(8,10,17),(6,8,13)); lvl=2; h,r-ind=2,1; alert-h-inc
    [4,3]((4,5,8),(7,9,15),(8,10,17),(5,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((12,15,25),(8,10,17),(7,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(12,15,25),(7,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,10),(12,15,25),(8,10,17)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(5,6,10),(12,15,25)); lvl=4; h,r-ind=1,1
    [4,3]((4,5,8),(3,4,6),(7,9,15),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,21),(6,8,13),(3,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(10,13,21),(3,4,6)); lvl=4; h,r-ind=1,1
      [3,3]((7,9,15),(10,13,21),(6,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(7,9,15),(10,13,21)); lvl=4; h,r-ind=1,1
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[3,3]((4,6,9),(5,7,11),(3,4,7)); lvl=1; h,r-ind=1,1
[4,3]((0,1,0),(5,7,12),(4,6,9),(3,4,7)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,7),(5,7,12),(3,4,7)); lvl=2; h,r-ind=1,1
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  [3,3]((0,1,0),(4,6,9),(3,5,7)); lvl=2; h,r-ind=1,1
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[5,3]((5,6,11),(4,5,9),(1,0,0),(13,15,26),(7,7,12)); lvl=1; h,r-ind=1,1
  [4,3]((11,12,21),(7,8,14),(13,15,26),(10,11,19)); lvl=2; h,r-ind=1,1
    [3,3]((7,8,14),(17,19,33),(13,15,26)); lvl=3; h,r-ind=1,1
    [3,3]((10,11,19),(17,19,33),(13,15,26)); lvl=3; h,r-ind=1,1
    [3,3]((11,12,21),(7,8,14),(17,19,33)); lvl=3; h,r-ind=1,1
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  [4,3]((4,4,7),(11,12,21),(7,7,12),(10,11,19)); lvl=2; h,r-ind=1,1
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    [3,3]((7,7,12),(10,11,19),(14,15,26)); lvl=3; h,r-ind=1,1
    [3,3]((4,4,7),(11,12,21),(14,15,26)); lvl=3; h,r-ind=1,1
    [3,3]((7,7,12),(4,4,7),(14,15,26)); lvl=3; h,r-ind=1,1
  [3,3]((4,4,7),(1,0,0),(7,7,12)); lvl=2; h,r-ind=1,1
  [3,3]((4,4,7),(9,9,16),(1,0,0)); lvl=2; h,r-ind=1,1
  [5,3]((5,6,11),(13,15,27),(17,19,34),(9,9,16),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((17,19,34),(13,15,27),(9,10,18)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,11),(13,15,27),(9,10,18)); lvl=3; h,r-ind=1,1
    [4,3]((17,19,34),(14,15,27),(13,14,25),(9,10,18)); lvl=3; h,r-ind=1,1
      [3,3]((14,15,27),(13,14,25),(22,24,43)); lvl=4; h,r-ind=1,1
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        [3,3]((17,19,34),(13,14,25),(22,24,43)); lvl=4; h,r-ind=1,1
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        [3,3]((9,10,18),(17,19,34),(22,24,43)); lvl=4; h,r-ind=1,1
      [3,3]((5,6,11),(14,15,27),(9,10,18)); lvl=3; h,r-ind=1,1
      [4,3]((5,5,9),(14,15,27),(13,14,25),(9,9,16)); lvl=3; h,r-ind=1,1
        [3,3]((14,15,27),(13,14,25),(18,19,34)); lvl=4; h,r-ind=1,1
        [3,3]((9,9,16),(13,14,25),(18,19,34)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,9),(14,15,27),(18,19,34)); lvl=4; h,r-ind=1,1
        [3,3]((9,9,16),(5,5,9),(18,19,34)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,0),(5,5,9),(9,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,11),(1,0,0),(5,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,11),(5,5,9),(14,15,27)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,9),(7,8,14),(13,15,26)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,9),(11,12,21),(8,9,16),(7,8,14)); lvl=2; h,r-ind=1,1
      [3,3]((15,17,30),(11,12,21),(8,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,9),(15,17,30),(8,9,16)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,14),(4,5,9),(15,17,30)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,14),(15,17,30),(11,12,21)); lvl=3; h,r-ind=1,1
    [5,3]((4,4,7),(11,12,21),(17,19,34),(9,9,16),(8,9,16)); lvl=2; h,r-ind=1,1
      [3,3]((12,13,23),(8,9,16),(11,12,21)); lvl=3; h,r-ind=1,1
      [3,3]((4,4,7),(12,13,23),(11,12,21)); lvl=3; h,r-ind=1,1
      [4,3]((4,4,7),(29,31,55),(17,18,32),(9,9,16)); lvl=3; h,r-ind=1,1
        [3,3]((29,31,55),(21,22,39),(17,18,32)); lvl=4; h,r-ind=1,1
        [3,3]((9,9,16),(21,22,39),(17,18,32)); lvl=4; h,r-ind=1,1
        [3,3]((4,4,7),(29,31,55),(21,22,39)); lvl=4; h,r-ind=1,1
        [3,3]((9,9,16),(4,4,7),(21,22,39)); lvl=4; h,r-ind=1,1
      [4,3]((12,13,23),(33,36,64),(37,40,71),(8,9,16)); lvl=3; h,r-ind=1,1
        [3,3]((45,49,87),(33,36,64),(37,40,71)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,23),(45,49,87),(37,40,71)); lvl=4; h,r-ind=1,1
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        [3,3]((8,9,16),(45,49,87),(33,36,64)); lvl=4; h,r-ind=1,1
      [4,3]((33,36,64),(21,23,41),(17,19,34),(8,9,16)); lvl=3; h,r-ind=1,1
        [3,3]((29,32,57),(21,23,41),(17,19,34)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,16),(29,32,57),(17,19,34)); lvl=4; h,r-ind=1,1
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        [3,3]((33,36,64),(29,32,57),(21,23,41)); lvl=4; h,r-ind=1,1
      [3,3]((13,14,25),(21,23,41),(17,19,34)); lvl=3; h,r-ind=1,1
      [6,3]((33,36,64),(37,40,71),(29,31,55),(17,18,32),(13,14,25),(21,23,41)); lvl=3; h,r-ind=1,1
        [3,3]((25,27,48),(17,18,32),(29,31,55)); lvl=4; h,r-ind=1,1
        [3,3]((37,40,71),(25,27,48),(29,31,55)); lvl=4; h,r-ind=1,1
        [3,3]((37,40,71),(33,36,64),(25,27,48)); lvl=4; h,r-ind=1,1
        [3,3]((25,27,48),(17,18,32),(13,14,25)); lvl=4; h,r-ind=1,1
        [3,3]((21,23,41),(25,27,48),(13,14,25)); lvl=4; h,r-ind=1,1
        [3,3]((33,36,64),(21,23,41),(25,27,48)); lvl=4; h,r-ind=1,1
      [3,3]((17,18,32),(9,9,16),(13,14,25)); lvl=3; h,r-ind=1,1
      [4,3]((4,4,7),(12,13,23),(37,40,71),(29,31,55)); lvl=3; h,r-ind=1,1
        [3,3]((12,13,23),(37,40,71),(41,44,78)); lvl=4; h,r-ind=1,1
        [3,3]((29,31,55),(37,40,71),(41,44,78)); lvl=4; h,r-ind=1,1
        [3,3]((4,4,7),(12,13,23),(41,44,78)); lvl=4; h,r-ind=1,1
        [3,3]((29,31,55),(4,4,7),(41,44,78)); lvl=4; h,r-ind=1,1
    [4,3]((4,5,9),(13,15,27),(17,19,34),(8,9,16)); lvl=2; h,r-ind=1,1
      [3,3]((21,24,43),(17,19,34),(13,15,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,9),(21,24,43),(13,15,27)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,16),(21,24,43),(17,19,34)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,9),(8,9,16),(21,24,43)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,11),(4,5,9),(13,15,27)); lvl=2; h,r-ind=1,1
  [3,3]((10,13,24),(5,6,11),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((10,13,24),(5,6,11),(4,5,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(7,7,12)); lvl=1; h,r-ind=3,3; optimized-h
```

24.100 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,15,24)); lvl=0; h,r-ind=24,96
  [4,3]((2,3,4),(4,6,9),(7,10,15),(5,7,10)); lvl=1; h,r-ind=1,1
    [3,3]((7,10,15),(4,6,9),(9,13,19)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(4,6,9),(9,13,19)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,10),(2,3,4),(9,13,19)); lvl=2; h,r-ind=1,1
    [3,3]((5,7,10),(7,10,15),(9,13,19)); lvl=2; h,r-ind=1,1
  [5,3]((1,1,1),(2,3,3),(3,3,4),(2,3,4),(5,7,10)); lvl=1; h,r-ind=1,1
    [4,3]((5,7,10),(2,3,4),(6,8,11),(9,12,16)); lvl=2; h,r-ind=1,1
      [3,3]((8,11,15),(6,8,11),(9,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(8,11,15),(9,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,10),(8,11,15),(6,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(5,7,10),(8,11,15)); lvl=3; h,r-ind=1,1
    [6,3]((5,6,8),(10,13,17),(8,10,13),(4,5,7),(6,8,11),(9,12,16)); lvl=2; h,r-ind=1,1
      [3,3]((7,9,12),(8,10,13),(10,13,17)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,12),(9,12,16),(10,13,17)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((6,8,11),(7,9,12),(9,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(6,8,11),(7,9,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(7,9,12),(8,10,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(4,5,7),(7,9,12)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(3,4,5),(10,13,17),(8,10,13)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(10,13,17),(11,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,13),(10,13,17),(11,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(11,14,18)); lvl=3; h,r-ind=1,1
      [3,3]((8,10,13),(1,1,1),(11,14,18)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,8),(3,3,4),(4,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(5,6,8),(8,10,13),(3,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((8,10,13),(6,7,9),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(6,7,9),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(8,10,13),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(1,1,1),(6,7,9)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,5),(10,13,17),(2,3,4),(9,12,16)); lvl=2; h,r-ind=1,1
      [3,3]((9,12,16),(10,13,17),(12,16,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(10,13,17),(12,16,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(12,16,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(9,12,16),(12,16,21)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(3,4,5),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,7),(5,7,10),(6,8,11)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(2,3,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,0,0),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,4),(4,6,9)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((0,1,0),(6,9,14),(5,8,12),(4,6,9)); lvl=1; h,r-ind=1,2
    [3,3]((3,5,7),(5,8,12),(6,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,7),(4,6,9),(6,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,5,7),(4,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(3,5,7),(5,8,12)); lvl=2; h,r-ind=1,1
  [3,3]((10,15,24),(6,9,14),(5,8,12)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,0,0),(3,3,4),(7,10,15),(5,7,10)); lvl=1; h,r-ind=1,1
    [4,3]((1,0,0),(5,6,9),(3,3,4),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,7),(2,2,3),(5,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(2,2,3),(9,10,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(4,5,7),(9,10,14)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(3,3,4),(2,2,3),(9,10,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,5,7),(3,3,4),(9,10,14)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,7),(2,2,3),(9,10,14)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(5,5,7),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(5,5,7),(3,3,4)); lvl=4; h,r-ind=1,1
    [4,3]((3,4,6),(5,6,9),(5,7,10),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,7),(7,9,13),(5,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(7,9,13),(5,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,7,10),(7,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,10),(4,5,7),(7,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,6),(7,10,15),(5,7,10)); lvl=2; h,r-ind=1,1
  [4,3]((6,9,14),(4,6,9),(7,10,15),(9,13,20)); lvl=1; h,r-ind=1,1
    [3,3]((13,19,29),(7,10,15),(4,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((6,9,14),(13,19,29),(4,6,9)); lvl=2; h,r-ind=1,1
    [3,3]((9,13,20),(13,19,29),(7,10,15)); lvl=2; h,r-ind=1,1
    [3,3]((6,9,14),(9,13,20),(13,19,29)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(11,15,24),(7,10,15),(9,13,20)); lvl=1; h,r-ind=1,1
    [4,3]((7,10,15),(3,4,6),(5,7,11),(9,13,20)); lvl=2; h,r-ind=1,1
      [3,3]((12,17,26),(5,7,11),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,15),(12,17,26),(3,4,6)); lvl=3; h,r-ind=1,1
      [3,3]((9,13,20),(7,10,15),(12,17,26)); lvl=3; h,r-ind=1,1
      [3,3]((9,13,20),(12,17,26),(5,7,11)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,6),(5,6,9),(7,9,14),(5,7,11)); lvl=2; h,r-ind=1,1
      [3,3]((10,13,20),(7,9,14),(5,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(10,13,20),(5,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(3,4,6),(10,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,11),(10,13,20),(7,9,14)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,8),(7,9,14),(5,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,8),(11,15,24),(5,7,11)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,8),(1,0,0),(5,6,9),(7,9,14)); lvl=2; h,r-ind=1,1
      [4,3]((7,9,14),(5,6,9),(2,2,3),(13,16,25)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((9,11,17),(5,6,9),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((13,16,25),(9,11,17),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,14),(13,16,25),(9,11,17)); lvl=4; h,r-ind=1,1
        [3,3]((7,9,14),(9,11,17),(5,6,9)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,8),(2,2,3),(13,16,25)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(1,0,0),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(7,9,14),(13,16,25)); lvl=3; h,r-ind=1,1
  [4,3]((10,15,24),(6,9,14),(11,15,24),(9,13,20)); lvl=1; h,r-ind=2,1
    [4,3]((13,19,30),(5,7,11),(6,9,14),(9,13,20)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((11,16,25),(5,7,11),(9,13,20)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((6,9,14),(11,16,25),(9,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((13,19,30),(11,16,25),(5,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,14),(13,19,30),(11,16,25)); lvl=3; h,r-ind=1,1
    [3,3]((8,12,19),(13,19,30),(6,9,14)); lvl=2; h,r-ind=1,1
    [3,3]((7,10,16),(13,19,30),(5,7,11)); lvl=2; h,r-ind=1,1
    [3,3]((7,10,16),(11,15,24),(5,7,11)); lvl=2; h,r-ind=1,1
    [4,3]((8,12,19),(10,15,24),(7,10,16),(13,19,30)); lvl=2; h,r-ind=1,1
      [3,3]((7,10,16),(15,22,35),(10,15,24)); lvl=3; h,r-ind=1,1
      [3,3]((8,12,19),(15,22,35),(10,15,24)); lvl=3; h,r-ind=1,1
      [3,3]((8,12,19),(13,19,30),(15,22,35)); lvl=3; h,r-ind=1,1
      [3,3]((13,19,30),(7,10,16),(15,22,35)); lvl=3; h,r-ind=1,1
```

24.101 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,17,24)); lvl=0; h,r-ind=24,288
  [3,3]((2,3,4),(3,5,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((10,17,24),(3,5,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,4),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,4),(3,5,6),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,7),(2,3,3),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(4,6,7),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(4,6,7),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(1,1,1),(4,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,5,6),(2,3,3)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((4,7,9),(2,3,4),(3,5,6),(3,5,7)); lvl=1; h,r-ind=1,1
    [3,3]((6,10,13),(3,5,6),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,7),(6,10,13),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(3,5,7),(6,10,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,9),(6,10,13),(3,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(4,7,9),(3,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,9,12),(3,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((10,17,24),(5,9,12),(3,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,7,9),(3,5,6)); lvl=1; h,r-ind=3,3; optimized-h
```

24.102 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,21,24)); lvl=0; h,r-ind=24,96
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((6,11,12),(5,10,11),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((5,10,11),(1,2,2),(7,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(7,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,12),(5,10,11),(7,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(6,11,12),(7,13,14)); lvl=2; h,r-ind=1,1
  [6,3]((10,21,24),(12,25,28),(11,21,24),(5,9,10),(6,11,12),(5,10,11)); lvl=1; h,r-ind=1,1
    [3,3]((12,25,28),(11,23,26),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((10,21,24),(11,23,26),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((10,21,24),(7,14,16),(4,8,9)); lvl=2; h,r-ind=1,1
    [4,3]((7,14,16),(8,15,17),(11,21,24),(4,8,9)); lvl=2; h,r-ind=1,1
      [3,3]((11,21,24),(8,15,17),(15,29,33)); lvl=3; h,r-ind=1,1
      [3,3]((4,8,9),(8,15,17),(15,29,33)); lvl=3; h,r-ind=1,1
      [3,3]((7,14,16),(4,8,9),(15,29,33)); lvl=3; h,r-ind=1,1
      [3,3]((7,14,16),(11,21,24),(15,29,33)); lvl=3; h,r-ind=1,1
    [3,3]((5,10,11),(12,25,28),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((5,10,11),(6,11,12),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,10),(6,11,12),(4,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((8,15,17),(5,9,10),(4,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((5,9,10),(6,11,12),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((6,11,12),(2,3,3),(7,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(7,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,10),(6,11,12),(7,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(5,9,10),(7,12,13)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((11,21,24),(5,9,10),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((9,16,18),(5,9,10),(1,1,1),(14,24,27)); lvl=2; h,r-ind=1,1
      [3,3]((10,17,19),(1,1,1),(5,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((9,16,18),(10,17,19),(5,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((9,16,18),(14,24,27),(10,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((14,24,27),(10,17,19),(1,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,8),(1,0,0),(1,1,1),(14,24,27)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((5,8,9),(1,0,0),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((14,24,27),(5,8,9),(1,1,1)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((4,7,8),(14,24,27),(5,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,8),(5,8,9),(1,0,0)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,8),(8,15,17),(9,16,18),(14,24,27)); lvl=2; h,r-ind=1,1
      [3,3]((8,15,17),(13,23,26),(9,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((14,24,27),(13,23,26),(9,16,18)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,8),(8,15,17),(13,23,26)); lvl=3; h,r-ind=1,1
      [3,3]((14,24,27),(4,7,8),(13,23,26)); lvl=3; h,r-ind=1,1
    [3,3]((11,21,24),(4,7,8),(8,15,17)); lvl=2; h,r-ind=1,1
    [3,3]((8,15,17),(9,16,18),(5,9,10)); lvl=2; h,r-ind=1,1
  [3,3]((4,9,9),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((7,15,16),(4,9,9),(1,2,2)); lvl=1; h,r-ind=1,1
  [5,3]((9,19,21),(12,25,28),(5,10,11),(7,15,16),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((14,29,32),(5,10,11),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((10,21,23),(23,48,53),(14,29,32),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((14,29,32),(23,48,53),(24,50,55)); lvl=3; h,r-ind=1,1
      [3,3]((10,21,23),(23,48,53),(24,50,55)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(10,21,23),(24,50,55)); lvl=3; h,r-ind=1,1
      [3,3]((1,2,2),(14,29,32),(24,50,55)); lvl=3; h,r-ind=1,1
    [3,3]((7,15,16),(10,21,23),(1,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((9,19,21),(7,15,16),(10,21,23)); lvl=2; h,r-ind=1,1
    [4,3]((9,19,21),(22,46,51),(10,21,23),(23,48,53)); lvl=2; h,r-ind=1,1
      [3,3]((23,48,53),(22,46,51),(32,67,74)); lvl=3; h,r-ind=1,1
      [3,3]((9,19,21),(22,46,51),(32,67,74)); lvl=3; h,r-ind=1,1
      [3,3]((10,21,23),(9,19,21),(32,67,74)); lvl=3; h,r-ind=1,1
      [3,3]((10,21,23),(23,48,53),(32,67,74)); lvl=3; h,r-ind=1,1
    [3,3]((12,25,28),(9,19,21),(22,46,51)); lvl=2; h,r-ind=1,1
    [4,3]((12,25,28),(22,46,51),(23,48,53),(14,29,32)); lvl=2; h,r-ind=1,1
      [3,3]((23,48,53),(22,46,51),(58,121,134)); lvl=3; h,r-ind=1,1
      [4,3]((13,27,30),(12,25,28),(22,46,51),(58,121,134)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((12,25,28),(35,73,81),(22,46,51)); lvl=4; h,r-ind=1,1
        [3,3]((58,121,134),(35,73,81),(22,46,51)); lvl=4; h,r-ind=1,1
        [3,3]((13,27,30),(58,121,134),(35,73,81)); lvl=4; h,r-ind=1,1
        [3,3]((13,27,30),(12,25,28),(35,73,81)); lvl=4; h,r-ind=1,1
      [4,3]((14,29,32),(13,27,30),(23,48,53),(58,121,134)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((13,27,30),(36,75,83),(58,121,134)); lvl=4; h,r-ind=1,1
        [3,3]((23,48,53),(36,75,83),(58,121,134)); lvl=4; h,r-ind=1,1
        [3,3]((14,29,32),(23,48,53),(36,75,83)); lvl=4; h,r-ind=1,1
        [3,3]((14,29,32),(13,27,30),(36,75,83)); lvl=4; h,r-ind=1,1
    [3,3]((12,25,28),(14,29,32),(5,10,11)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((10,21,24),(8,17,19),(9,19,21),(12,25,28)); lvl=1; h,r-ind=1,1
    [3,3]((9,19,21),(8,17,19),(28,59,66)); lvl=2; h,r-ind=1,1
    [4,3]((11,23,26),(10,21,24),(8,17,19),(28,59,66)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((19,40,45),(10,21,24),(8,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((28,59,66),(19,40,45),(8,17,19)); lvl=3; h,r-ind=1,1
      [3,3]((11,23,26),(28,59,66),(19,40,45)); lvl=3; h,r-ind=1,1
      [3,3]((11,23,26),(19,40,45),(10,21,24)); lvl=3; h,r-ind=1,1
    [4,3]((12,25,28),(11,23,26),(9,19,21),(28,59,66)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((20,42,47),(11,23,26),(28,59,66)); lvl=3; h,r-ind=1,1
      [3,3]((20,42,47),(9,19,21),(28,59,66)); lvl=3; h,r-ind=1,1
      [3,3]((12,25,28),(20,42,47),(9,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((12,25,28),(20,42,47),(11,23,26)); lvl=3; h,r-ind=1,1
  [6,3]((8,17,19),(9,19,21),(3,7,7),(5,11,12),(7,15,16),(4,9,9)); lvl=1; h,r-ind=1,1
    [3,3]((7,15,16),(4,9,9),(6,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,7),(4,9,9),(6,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((5,11,12),(3,7,7),(6,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((8,17,19),(5,11,12),(6,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((9,19,21),(7,15,16),(6,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((8,17,19),(9,19,21),(6,13,14)); lvl=2; h,r-ind=1,1
  [3,3]((10,21,24),(8,17,19),(5,11,12)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,7),(4,9,9),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,7,7),(5,11,12),(0,1,0)); lvl=1; h,r-ind=1,1
```

24.103 Resolved

```
[3,3]((1,0,0),(0,1,0),(10,23,24)); lvl=0; h,r-ind=24,288
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((10,23,24),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((10,23,24),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,9,9),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,12,12),(4,9,9)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((10,23,24),(5,12,12),(4,9,9)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((10,23,24),(4,9,9),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((10,23,24),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.104 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,11,24)); lvl=0; h,r-ind=24,576
  [3,3]((7,7,15),(1,0,0),(6,6,13)); lvl=1; h,r-ind=1,1
  [3,3]((11,11,24),(1,0,0),(6,6,13)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(7,7,15),(6,6,13)); lvl=1; h,r-ind=1,1
  [3,3]((11,11,24),(0,1,0),(6,6,13)); lvl=1; h,r-ind=1,1
  [3,3]((7,7,15),(1,0,0),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(2,2,3)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((0,1,0),(2,2,3),(1,1,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(7,7,15),(1,1,2)); lvl=1; h,r-ind=1,1
```

24.105 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,12,24)); lvl=0; h,r-ind=24,48
  [3,3]((0,1,0),(2,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,2),(2,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((7,9,15),(0,1,0),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((11,12,24),(7,9,15),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,2),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(7,9,15),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,2),(11,12,24),(7,9,15)); lvl=1; h,r-ind=3,3; optimized-h
```

24.106 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,14,24)); lvl=0; h,r-ind=24,288
  [5,3]((7,9,14),(2,3,4),(1,1,1),(2,2,3),(2,3,3)); lvl=1; h,r-ind=1,1
    [4,3]((3,4,5),(4,5,7),(2,3,4),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,6),(4,5,7),(6,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(4,5,7),(6,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,5),(6,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,6),(6,8,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,3),(7,8,11),(4,5,7),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,10),(7,8,11),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(6,7,10),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,4,6),(6,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(6,7,10),(7,8,11)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,14),(2,2,3),(3,4,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(7,8,11),(3,4,5),(4,5,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,5,7),(5,6,8),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(5,6,8),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(1,1,1),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(4,5,7),(5,6,8)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(1,1,1),(7,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(2,3,3),(2,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,4,5),(2,3,3)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(5,6,10),(7,9,14),(2,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((11,12,19),(2,2,3),(7,9,14),(4,5,8)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((6,7,11),(7,9,14),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((11,12,19),(6,7,11),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(11,12,19),(6,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(6,7,11),(7,9,14)); lvl=3; h,r-ind=1,1
    [4,3]((5,5,8),(11,12,19),(3,3,5),(4,5,8)); lvl=2; h,r-ind=1,1
      [3,3]((11,12,19),(4,5,8),(9,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,5),(4,5,8),(9,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,5,8),(11,12,19),(9,10,16)); lvl=3; h,r-ind=1,1
      [3,3]((5,5,8),(3,3,5),(9,10,16)); lvl=3; h,r-ind=1,1
    [3,3]((3,3,5),(5,6,10),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(5,5,8),(3,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(5,5,8),(11,12,19),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((7,7,11),(5,5,8),(11,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(7,7,11),(11,12,19)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,2,3),(7,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(7,7,11),(5,5,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(6,7,12),(5,6,10)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((11,14,24),(5,6,10),(7,9,15),(7,9,14)); lvl=1; h,r-ind=1,1
    [4,3]((26,33,55),(7,9,15),(7,9,14),(4,5,8)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((7,9,15),(11,14,23),(7,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(11,14,23),(7,9,14)); lvl=3; h,r-ind=1,1
      [3,3]((26,33,55),(7,9,15),(11,14,23)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(26,33,55),(11,14,23)); lvl=3; h,r-ind=1,1
```

```
    [4,3]((26,33,55),(15,19,32),(8,10,17),(4,5,8)); lvl=2; h,r-ind=1,1
      [3,3]((15,19,32),(8,10,17),(19,24,40)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(8,10,17),(19,24,40)); lvl=3; h,r-ind=1,1
      [3,3]((26,33,55),(15,19,32),(19,24,40)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,8),(26,33,55),(19,24,40)); lvl=3; h,r-ind=1,1
    [3,3]((8,10,17),(5,6,10),(4,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((11,14,24),(15,19,32),(8,10,17)); lvl=2; h,r-ind=1,1
    [4,3]((11,14,24),(26,33,55),(15,19,32),(7,9,15)); lvl=2; h,r-ind=1,1
      [3,3]((22,28,47),(15,19,32),(26,33,55)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,15),(22,28,47),(26,33,55)); lvl=3; h,r-ind=1,1
      [3,3]((11,14,24),(22,28,47),(15,19,32)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,15),(11,14,24),(22,28,47)); lvl=3; h,r-ind=1,1
  [3,3]((6,7,12),(11,14,24),(5,6,10)); lvl=1; h,r-ind=2,2; optimized-h
  [5,3]((7,9,15),(6,8,13),(7,10,15),(7,9,14),(2,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((8,11,17),(2,3,4),(7,10,15)); lvl=2; h,r-ind=1,1
    [3,3]((6,8,13),(8,11,17),(7,10,15)); lvl=2; h,r-ind=1,1
    [4,3]((22,29,47),(9,12,19),(6,8,13),(8,11,17)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((15,20,32),(9,12,19),(8,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((15,20,32),(6,8,13),(8,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((22,29,47),(15,20,32),(6,8,13)); lvl=3; h,r-ind=1,1
      [3,3]((22,29,47),(15,20,32),(9,12,19)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,15),(22,29,47),(6,8,13)); lvl=2; h,r-ind=1,1
    [4,3]((9,12,19),(8,11,17),(3,4,6),(2,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((11,15,23),(2,3,4),(8,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,19),(11,15,23),(8,11,17)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(11,15,23),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,19),(3,4,6),(11,15,23)); lvl=3; h,r-ind=1,1
    [4,3]((7,9,15),(22,29,47),(9,12,19),(3,4,6)); lvl=2; h,r-ind=1,1
      [3,3]((16,21,34),(9,12,19),(22,29,47)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,15),(16,21,34),(22,29,47)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(7,9,15),(16,21,34)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(16,21,34),(9,12,19)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,15),(3,4,6),(7,9,14)); lvl=2; h,r-ind=1,1
  [3,3]((11,14,24),(7,9,15),(6,8,13)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,4),(0,1,0),(2,3,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((7,10,15),(2,3,4),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((6,8,13),(7,10,15),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((11,14,24),(6,8,13),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(2,2,3)); lvl=1; h,r-ind=1,1
```

24.107 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,16,24)); lvl=0; h,r-ind=24,72
  [4,3]((1,1,1),(3,4,5),(1,0,0),(5,6,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,2,3),(5,6,9),(4,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(8,9,12),(5,6,8),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((7,8,11),(8,9,12),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(7,8,11),(5,6,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(4,5,7),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(7,8,11),(8,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(5,6,8),(4,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(1,0,0),(2,2,3),(8,9,12)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((1,0,0),(2,2,3),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,12),(2,2,3),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(8,9,12),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,0,0),(3,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(3,4,5),(8,9,12),(5,6,8)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,8),(3,4,5),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,4,5),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,12),(1,1,1),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,12),(5,6,8),(6,7,9)); lvl=3; h,r-ind=1,1
  [7,3]((10,14,21),(8,12,17),(9,14,19),(3,5,6),(4,6,7),(3,4,5),(5,6,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,4),(8,12,17),(9,13,19)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,6),(10,14,21),(2,3,4),(9,13,19)); lvl=2; h,r-ind=1,1
      [3,3]((9,13,19),(10,14,21),(12,17,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(10,14,21),(12,17,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(3,4,6),(12,17,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,4),(9,13,19),(12,17,25)); lvl=3; h,r-ind=1,1
    [4,3]((3,4,6),(2,3,4),(5,6,9),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((7,9,13),(4,5,7),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(7,9,13),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,9),(7,9,13),(4,5,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(5,6,9),(7,9,13)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,4),(4,5,7),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(4,6,7),(3,4,5)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((2,3,4),(3,5,6),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(9,14,19),(8,12,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,5,6),(9,14,19)); lvl=2; h,r-ind=1,1
  [4,3]((11,16,24),(10,14,21),(8,12,17),(6,9,13)); lvl=1; h,r-ind=1,1
    [3,3]((15,22,32),(9,13,19),(8,12,17)); lvl=2; h,r-ind=1,1
    [4,3]((6,9,13),(15,22,32),(28,41,60),(8,12,17)); lvl=2; h,r-ind=1,1
      [3,3]((21,31,45),(15,22,32),(28,41,60)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,13),(21,31,45),(28,41,60)); lvl=3; h,r-ind=1,1
      [3,3]((8,12,17),(6,9,13),(21,31,45)); lvl=3; h,r-ind=1,1
      [3,3]((8,12,17),(21,31,45),(15,22,32)); lvl=3; h,r-ind=1,1
    [4,3]((7,10,15),(11,16,24),(6,9,13),(28,41,60)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((13,19,28),(6,9,13),(11,16,24)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,15),(13,19,28),(11,16,24)); lvl=3; h,r-ind=1,1
      [3,3]((28,41,60),(13,19,28),(6,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,15),(28,41,60),(13,19,28)); lvl=3; h,r-ind=1,1
    [4,3]((7,10,15),(15,22,32),(28,41,60),(9,13,19)); lvl=2; h,r-ind=1,1
      [3,3]((22,32,47),(15,22,32),(28,41,60)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,15),(22,32,47),(28,41,60)); lvl=3; h,r-ind=1,1
      [3,3]((22,32,47),(9,13,19),(15,22,32)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,15),(22,32,47),(9,13,19)); lvl=3; h,r-ind=1,1
    [3,3]((7,10,15),(9,13,19),(10,14,21)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(11,16,24),(6,9,13)); lvl=1; h,r-ind=1,1
  [4,3]((8,12,17),(6,9,13),(7,11,15),(9,14,19)); lvl=1; h,r-ind=1,1
    [3,3]((15,23,32),(6,9,13),(7,11,15)); lvl=2; h,r-ind=1,1
    [3,3]((9,14,19),(15,23,32),(7,11,15)); lvl=2; h,r-ind=1,1
    [3,3]((8,12,17),(9,14,19),(15,23,32)); lvl=2; h,r-ind=1,1
    [3,3]((8,12,17),(15,23,32),(6,9,13)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(6,9,13),(7,11,15)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,2),(7,11,15),(9,14,19),(3,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((7,11,15),(9,14,19),(10,16,21)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(9,14,19),(10,16,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(3,5,6),(10,16,21)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(7,11,15),(10,16,21)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(7,11,15)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,1),(2,3,3),(4,6,7),(3,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(4,6,7),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(4,6,7),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(5,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(1,1,1),(5,7,8)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,2),(3,5,6),(2,3,3),(4,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(4,6,7),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,6,7),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(3,5,6),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(5,8,9)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
```

24.108 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,18,24)); lvl=0; h,r-ind=24,96
  [4,3]((1,1,1),(2,3,3),(4,6,7),(5,8,9)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(5,8,9),(6,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,7),(5,8,9),(6,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,3,3),(6,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,7),(1,1,1),(6,9,10)); lvl=2; h,r-ind=1,1
  [4,3]((2,3,4),(4,7,8),(4,6,7),(5,8,9)); lvl=1; h,r-ind=1,1
    [4,3]((3,5,6),(4,7,8),(5,8,9),(12,19,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((8,13,15),(4,7,8),(5,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((12,19,22),(8,13,15),(5,8,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(12,19,22),(8,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(8,13,15),(4,7,8)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,7),(5,8,9),(12,19,22)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,7),(2,3,4),(3,5,6),(12,19,22)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,11,13),(3,5,6),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(7,11,13),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((12,19,22),(7,11,13),(3,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(12,19,22),(7,11,13)); lvl=3; h,r-ind=1,1
  [4,3]((2,3,4),(9,15,19),(10,17,21),(4,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((10,17,21),(9,15,19),(22,37,46)); lvl=2; h,r-ind=1,1
    [4,3]((3,5,6),(2,3,4),(9,15,19),(22,37,46)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((9,15,19),(12,20,25),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(12,20,25),(2,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((22,37,46),(9,15,19),(12,20,25)); lvl=3; h,r-ind=1,1
      [3,3]((3,5,6),(22,37,46),(12,20,25)); lvl=3; h,r-ind=1,1
    [4,3]((4,7,8),(3,5,6),(10,17,21),(22,37,46)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,5,6),(22,37,46),(13,22,27)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((10,17,21),(22,37,46),(13,22,27)); lvl=3; h,r-ind=1,1
      [3,3]((4,7,8),(3,5,6),(13,22,27)); lvl=3; h,r-ind=1,1
      [3,3]((10,17,21),(4,7,8),(13,22,27)); lvl=3; h,r-ind=1,1
  [4,3]((6,10,13),(7,12,15),(9,15,19),(10,17,21)); lvl=1; h,r-ind=1,1
    [3,3]((16,27,34),(10,17,21),(7,12,15)); lvl=2; h,r-ind=1,1
    [3,3]((6,10,13),(16,27,34),(7,12,15)); lvl=2; h,r-ind=1,1
    [3,3]((9,15,19),(16,27,34),(10,17,21)); lvl=2; h,r-ind=1,1
    [3,3]((6,10,13),(9,15,19),(16,27,34)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(6,10,13),(7,12,15)); lvl=1; h,r-ind=1,1
  [4,3]((11,18,24),(2,3,4),(6,10,13),(9,15,19)); lvl=1; h,r-ind=1,1
    [3,3]((8,13,17),(9,15,19),(6,10,13)); lvl=2; h,r-ind=1,1
    [3,3]((11,18,24),(8,13,17),(6,10,13)); lvl=2; h,r-ind=1,1
    [3,3]((8,13,17),(2,3,4),(9,15,19)); lvl=2; h,r-ind=1,1
    [3,3]((11,18,24),(8,13,17),(2,3,4)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(11,18,24),(6,10,13)); lvl=1; h,r-ind=1,1
  [4,3]((4,7,8),(1,2,2),(2,3,3),(5,8,9)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,9),(2,3,3),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(1,2,2),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,9),(4,7,8),(6,10,11)); lvl=2; h,r-ind=1,1
  [4,3]((7,12,15),(10,17,21),(4,7,8),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((11,19,23),(4,7,8),(10,17,21)); lvl=2; h,r-ind=1,1
    [3,3]((7,12,15),(11,19,23),(10,17,21)); lvl=2; h,r-ind=1,1
    [3,3]((11,19,23),(1,2,2),(4,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((7,12,15),(11,19,23),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(7,12,15),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,4),(1,0,0),(1,1,1),(4,6,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,4,5),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((4,6,7),(3,4,5),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(4,6,7),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,5),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
```

24.109 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,20,24)); lvl=0; h,r-ind=24,144
  [4,3]((1,1,1),(6,10,11),(5,8,9),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((5,8,9),(6,10,11),(7,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(6,10,11),(7,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(5,8,9),(7,11,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(7,11,12)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
  [4,3]((3,5,6),(1,0,0),(1,1,1),(5,8,9)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,7),(1,0,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((5,8,9),(4,6,7),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(5,8,9),(4,6,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,6,7),(1,0,0)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,2),(5,9,10),(6,10,11),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((5,9,10),(6,10,11),(7,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(6,10,11),(7,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(5,9,10),(7,12,13)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(7,12,13)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(2,3,3)); lvl=1; h,r-ind=1,1
  [6,3]((3,5,6),(5,9,10),(11,20,23),(10,18,21),(6,10,11),(5,8,9)); lvl=1; h,r-ind=1,1
    [3,3]((4,7,8),(10,18,21),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(5,8,9),(3,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(6,10,11),(5,8,9)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,10),(4,7,8),(6,10,11)); lvl=2; h,r-ind=1,1
    [3,3]((4,7,8),(11,20,23),(10,18,21)); lvl=2; h,r-ind=1,1
    [3,3]((5,9,10),(4,7,8),(11,20,23)); lvl=2; h,r-ind=1,1
  [4,3]((11,20,24),(3,5,6),(6,11,13),(10,18,21)); lvl=1; h,r-ind=1,1
    [3,3]((3,5,6),(10,18,21),(9,16,19)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,13),(10,18,21),(9,16,19)); lvl=2; h,r-ind=1,1
    [3,3]((6,11,13),(11,20,24),(9,16,19)); lvl=2; h,r-ind=1,1
    [3,3]((11,20,24),(3,5,6),(9,16,19)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(11,20,24),(6,11,13)); lvl=1; h,r-ind=1,1
  [4,3]((7,13,15),(1,2,2),(5,9,10),(11,20,23)); lvl=1; h,r-ind=1,1
    [3,3]((12,22,25),(1,2,2),(5,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((11,20,23),(12,22,25),(5,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((7,13,15),(11,20,23),(12,22,25)); lvl=2; h,r-ind=1,1
    [3,3]((7,13,15),(12,22,25),(1,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(7,13,15),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((7,13,15),(6,11,13),(11,20,23),(10,18,21)); lvl=1; h,r-ind=1,1
    [3,3]((10,18,21),(6,11,13),(17,31,36)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((7,13,15),(6,11,13),(17,31,36)); lvl=2; h,r-ind=1,1
    [3,3]((11,20,23),(7,13,15),(17,31,36)); lvl=2; h,r-ind=1,1
    [3,3]((11,20,23),(10,18,21),(17,31,36)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(7,13,15),(6,11,13)); lvl=1; h,r-ind=1,1
```

24.110 Resolved

```
[3,3]((1,0,0),(0,1,0),(11,22,24)); lvl=0; h,r-ind=24,288
  [4,3]((8,15,16),(2,3,3),(7,14,15),(1,2,2)); lvl=1; h,r-ind=1,1
    [3,3]((7,14,15),(1,2,2),(9,17,18)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(9,17,18)); lvl=2; h,r-ind=1,1
    [3,3]((8,15,16),(7,14,15),(9,17,18)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(8,15,16),(9,17,18)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(7,14,15),(1,2,2)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=1; h,r-ind=1,1
  [4,3]((8,15,16),(7,13,14),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((7,13,14),(1,1,1),(9,16,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(9,16,17)); lvl=2; h,r-ind=1,1
    [3,3]((8,15,16),(7,13,14),(9,16,17)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(8,15,16),(9,16,17)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(6,11,12),(7,13,14),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((7,12,13),(6,11,12),(7,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((7,12,13),(1,1,1),(7,13,14)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(7,12,13),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(7,12,13),(6,11,12)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((8,15,16),(7,13,14),(6,12,13),(7,14,15)); lvl=1; h,r-ind=1,1
    [3,3]((7,13,14),(6,12,13),(14,27,29)); lvl=2; h,r-ind=1,1
    [3,3]((7,14,15),(6,12,13),(14,27,29)); lvl=2; h,r-ind=1,1
    [3,3]((8,15,16),(7,13,14),(14,27,29)); lvl=2; h,r-ind=1,1
    [3,3]((7,14,15),(8,15,16),(14,27,29)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(6,12,13),(7,14,15)); lvl=1; h,r-ind=1,1
  [3,3]((11,22,24),(0,1,0),(6,12,13)); lvl=1; h,r-ind=1,1
  [4,3]((11,22,24),(6,11,12),(7,13,14),(6,12,13)); lvl=1; h,r-ind=1,1
    [3,3]((6,11,12),(7,13,14),(12,23,25)); lvl=2; h,r-ind=1,1
    [3,3]((6,12,13),(7,13,14),(12,23,25)); lvl=2; h,r-ind=1,1
    [3,3]((11,22,24),(6,12,13),(12,23,25)); lvl=2; h,r-ind=1,1
    [3,3]((11,22,24),(6,11,12),(12,23,25)); lvl=2; h,r-ind=1,1
```

24.111 Resolved

```
[3,3]((1,0,0),(0,1,0),(12,13,24)); lvl=0; h,r-ind=24,48
  [4,3]((0,1,0),(6,7,12),(1,1,1),(7,7,12)); lvl=1; h,r-ind=1,1
    [3,3]((6,7,12),(3,3,5),(7,7,12)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,6),(6,7,12),(5,5,8),(3,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((12,13,21),(5,5,8),(3,3,5)); lvl=3; h,r-ind=1,1
      [4,3]((12,13,21),(6,7,12),(9,11,18),(3,3,5)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((3,3,5),(18,20,33),(5,6,10),(6,7,12)); lvl=4; h,r-ind=1,3
          [3,3]((8,9,15),(5,6,10),(18,20,33)); lvl=5; h,r-ind=1,1
          [3,3]((3,3,5),(8,9,15),(18,20,33)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,12),(8,9,15),(5,6,10)); lvl=5; h,r-ind=1,1
          [3,3]((3,3,5),(6,7,12),(8,9,15)); lvl=5; h,r-ind=1,1
        [4,3]((7,8,13),(12,13,21),(3,3,5),(18,20,33)); lvl=4; h,r-ind=1,3
          [3,3]((10,11,18),(12,13,21),(3,3,5)); lvl=5; h,r-ind=1,1
          [3,3]((18,20,33),(10,11,18),(3,3,5)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,13),(18,20,33),(10,11,18)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,13),(10,11,18),(12,13,21)); lvl=5; h,r-ind=1,1
        [3,3]((7,8,13),(18,20,33),(5,6,10)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [3,3]((7,8,13),(9,11,18),(5,6,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,4,6),(12,13,21),(9,11,18)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((3,4,6),(12,13,21),(5,5,8)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((0,1,0),(3,4,6),(1,1,1),(5,5,8)); lvl=2; h,r-ind=3,1; alert-h-inc
      [3,3]((3,4,6),(5,5,8),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,6),(3,5,6),(2,2,3)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((0,1,0),(3,5,6),(1,1,1),(2,2,3)); lvl=3; h,r-ind=1,1
        [3,3]((4,5,6),(1,1,1),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((1,2,2),(4,5,6),(2,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((3,5,6),(1,2,2),(2,2,3)); lvl=4; h,r-ind=1,1
        [4,3]((0,1,0),(1,2,2),(4,5,6),(1,1,1)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,3,3),(1,2,2),(4,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((2,3,3),(1,1,1),(4,5,6)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=5; h,r-ind=1,1
          [3,3]((0,1,0),(2,3,3),(1,2,2)); lvl=5; h,r-ind=1,1
```

```
  [3,3]((1,0,0),(1,1,1),(7,7,12)); lvl=1; h,r-ind=5,5; optimized-h
  [4,3]((12,13,24),(6,6,11),(6,7,12),(7,7,12)); lvl=1; h,r-ind=1,1
    [3,3]((6,7,12),(7,7,12),(4,4,7)); lvl=2; h,r-ind=1,1
    [4,3]((9,10,18),(6,7,12),(9,9,16),(4,4,7)); lvl=2; h,r-ind=1,1
      [3,3]((21,22,39),(9,9,16),(4,4,7)); lvl=3; h,r-ind=1,1
      [4,3]((21,22,39),(6,7,12),(15,17,30),(4,4,7)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc
        [4,3]((4,4,7),(27,29,51),(7,8,14),(6,7,12)); lvl=4; h,r-ind=1,3
          [3,3]((7,8,14),(11,12,21),(27,29,51)); lvl=5; h,r-ind=1,1
          [3,3]((4,4,7),(11,12,21),(27,29,51)); lvl=5; h,r-ind=1,1
          [3,3]((6,7,12),(7,8,14),(11,12,21)); lvl=5; h,r-ind=1,1
          [3,3]((4,4,7),(6,7,12),(11,12,21)); lvl=5; h,r-ind=1,1
        [3,3]((12,13,23),(27,29,51),(7,8,14)); lvl=4; h,r-ind=2,4; alert-r-inc; optimized-h
        [4,3]((4,4,7),(21,22,39),(12,13,23),(27,29,51)); lvl=4; h,r-ind=1,3
          [3,3]((21,22,39),(16,17,30),(12,13,23)); lvl=5; h,r-ind=1,1
          [3,3]((27,29,51),(16,17,30),(12,13,23)); lvl=5; h,r-ind=1,1
          [3,3]((4,4,7),(27,29,51),(16,17,30)); lvl=5; h,r-ind=1,1
          [3,3]((4,4,7),(21,22,39),(16,17,30)); lvl=5; h,r-ind=1,1
        [3,3]((12,13,23),(7,8,14),(15,17,30)); lvl=4; h,r-ind=1,1
      [3,3]((9,10,18),(21,22,39),(15,17,30)); lvl=3; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((9,10,18),(21,22,39),(9,9,16)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((9,10,18),(12,13,24),(9,9,16),(6,6,11)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((12,13,24),(21,23,42),(6,6,11),(5,5,9)); lvl=3; h,r-ind=1,1
        [3,3]((22,23,42),(5,5,9),(6,6,11)); lvl=4; h,r-ind=1,1
        [4,3]((12,13,24),(11,12,22),(22,23,42),(6,6,11)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((17,18,33),(11,12,22),(22,23,42)); lvl=5; h,r-ind=1,1
          [3,3]((17,18,33),(6,6,11),(22,23,42)); lvl=5; h,r-ind=1,1
          [3,3]((12,13,24),(17,18,33),(6,6,11)); lvl=5; h,r-ind=1,1
          [3,3]((12,13,24),(17,18,33),(11,12,22)); lvl=5; h,r-ind=1,1
        [3,3]((11,12,22),(22,23,42),(5,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((21,23,42),(11,12,22),(5,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((9,10,18),(21,23,42),(5,5,9)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [3,3]((9,10,18),(9,9,16),(5,5,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,0,0),(6,6,11),(7,7,12)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((1,0,0),(12,13,24),(6,6,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.112 Resolved

```
[3,3]((1,0,0),(0,1,0),(12,17,24)); lvl=0; h,r-ind=24,48
  [3,3]((1,0,0),(3,3,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((2,3,4),(3,5,6),(3,3,4),(1,1,1)); lvl=1; h,r-ind=1,2
    [3,3]((3,4,5),(1,1,1),(3,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,5),(3,3,4)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(3,5,6),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,4,5),(3,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(3,5,6),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((2,3,4),(9,13,18),(4,5,7),(3,3,4)); lvl=1; h,r-ind=1,2
    [3,3]((6,8,11),(9,13,18),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,3,4),(6,8,11),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(3,3,4),(6,8,11)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,4),(6,8,11),(9,13,18)); lvl=2; h,r-ind=1,1
  [3,3]((12,17,24),(9,13,18),(4,5,7)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,7),(1,0,0),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((12,17,24),(4,5,7),(1,0,0)); lvl=1; h,r-ind=1,1
```

24.113 Resolved

```
[3,3]((1,0,0),(0,1,0),(12,19,24)); lvl=0; h,r-ind=24,48
  [4,3]((3,4,5),(3,5,6),(5,8,10),(4,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((6,9,11),(3,5,6),(5,8,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(6,9,11),(5,8,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(6,9,11),(4,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((6,9,11),(4,5,6),(3,5,6)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,4,5),(4,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((12,19,24),(3,4,5),(5,8,10)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(12,19,24),(3,4,5)); lvl=1; h,r-ind=1,1
  [4,3]((1,2,2),(1,1,1),(3,5,6),(4,5,6)); lvl=1; h,r-ind=1,1
    [3,3]((4,6,7),(1,1,1),(4,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(4,6,7),(4,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(4,6,7),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((3,5,6),(1,2,2),(4,6,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(4,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.114 Resolved

```
[3,3]((1,0,0),(0,1,0),(12,23,24)); lvl=0; h,r-ind=24,48
  [3,3]((1,2,2),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((12,23,24),(1,2,2),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(12,23,24),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.115 Resolved

```
[3,3]((1,0,0),(0,1,0),(13,13,24)); lvl=0; h,r-ind=24,576
  [3,3]((1,0,0),(7,7,12),(6,6,11)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((13,13,24),(1,0,0),(6,6,11)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(7,7,12),(6,6,11)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((13,13,24),(0,1,0),(6,6,11)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(7,7,12),(1,1,1)); lvl=1; h,r-ind=5,5; optimized-h
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(7,7,12),(1,1,1)); lvl=1; h,r-ind=5,5; optimized-h
```

24.116 Resolved

```
[3,3]((1,0,0),(0,1,0),(13,15,24)); lvl=0; h,r-ind=24,192
  [4,3]((2,2,3),(8,9,14),(1,0,0),(14,15,24)); lvl=1; h,r-ind=1,1
    [3,3]((13,14,22),(11,12,19),(8,9,14)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(13,14,22),(20,21,33),(8,9,14)); lvl=2; h,r-ind=1,1
      [3,3]((15,16,25),(20,21,33),(13,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((8,9,14),(15,16,25),(13,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(8,9,14),(15,16,25)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(15,16,25),(20,21,33)); lvl=3; h,r-ind=1,1
    [4,3]((13,14,22),(20,21,33),(5,5,8),(11,12,19)); lvl=2; h,r-ind=1,1
      [3,3]((5,5,8),(20,21,33),(18,19,30)); lvl=3; h,r-ind=1,1
      [3,3]((13,14,22),(20,21,33),(18,19,30)); lvl=3; h,r-ind=1,1
      [3,3]((13,14,22),(11,12,19),(18,19,30)); lvl=3; h,r-ind=1,1
      [3,3]((11,12,19),(5,5,8),(18,19,30)); lvl=3; h,r-ind=1,1
    [3,3]((5,5,8),(14,15,24),(11,12,19)); lvl=2; h,r-ind=1,1
    [4,3]((2,2,3),(20,21,33),(5,5,8),(1,0,0)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((5,5,8),(7,7,11),(20,21,33)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(7,7,11),(20,21,33)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(5,5,8),(7,7,11)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,0,0),(7,7,11)); lvl=3; h,r-ind=1,1
  [4,3]((13,15,24),(6,7,11),(8,9,14),(14,15,24)); lvl=1; h,r-ind=1,1
    [4,3]((32,36,57),(17,19,30),(6,7,11),(8,9,14)); lvl=2; h,r-ind=1,1
      [3,3]((17,19,30),(8,9,14),(23,26,41)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,11),(8,9,14),(23,26,41)); lvl=3; h,r-ind=1,1
      [3,3]((32,36,57),(17,19,30),(23,26,41)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,11),(32,36,57),(23,26,41)); lvl=3; h,r-ind=1,1
    [3,3]((11,12,19),(17,19,30),(8,9,14)); lvl=2; h,r-ind=1,1
    [4,3]((9,10,16),(13,15,24),(32,36,57),(6,7,11)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((6,7,11),(13,15,24),(15,17,27)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,16),(13,15,24),(15,17,27)); lvl=3; h,r-ind=1,1
      [3,3]((32,36,57),(9,10,16),(15,17,27)); lvl=3; h,r-ind=1,1
      [3,3]((32,36,57),(6,7,11),(15,17,27)); lvl=3; h,r-ind=1,1
    [4,3]((9,10,16),(11,12,19),(32,36,57),(17,19,30)); lvl=2; h,r-ind=1,1
      [3,3]((26,29,46),(11,12,19),(17,19,30)); lvl=3; h,r-ind=1,1
      [3,3]((32,36,57),(26,29,46),(17,19,30)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,16),(32,36,57),(26,29,46)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,16),(26,29,46),(11,12,19)); lvl=3; h,r-ind=1,1
    [3,3]((9,10,16),(11,12,19),(14,15,24)); lvl=2; h,r-ind=1,1
  [5,3]((7,9,12),(2,2,3),(5,6,9),(8,9,14),(3,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((8,9,14),(7,8,12),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((6,7,10),(17,19,27),(7,8,12),(2,2,3)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((2,2,3),(8,9,13),(17,19,27)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,10),(8,9,13),(17,19,27)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,12),(2,2,3),(8,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,10),(7,8,12),(8,9,13)); lvl=3; h,r-ind=1,1
    [4,3]((3,3,4),(9,10,14),(17,19,27),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((11,12,17),(9,10,14),(17,19,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(11,12,17),(17,19,27)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((3,3,4),(11,12,17),(9,10,14)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(3,3,4),(11,12,17)); lvl=3; h,r-ind=1,1
    [4,3]((4,5,7),(5,6,9),(6,7,10),(7,8,12)); lvl=2; h,r-ind=1,1
      [3,3]((11,13,19),(7,8,12),(5,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(11,13,19),(5,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,10),(11,13,19),(7,8,12)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(6,7,10),(11,13,19)); lvl=3; h,r-ind=1,1
    [5,3]((5,6,8),(9,10,14),(4,5,7),(6,7,10),(17,19,27)); lvl=2; h,r-ind=1,1
      [4,3]((23,27,38),(13,15,21),(6,7,10),(15,17,24)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((19,22,31),(13,15,21),(15,17,24)); lvl=4; h,r-ind=1,1
        [3,3]((19,22,31),(6,7,10),(15,17,24)); lvl=4; h,r-ind=1,1
        [3,3]((23,27,38),(19,22,31),(6,7,10)); lvl=4; h,r-ind=1,1
        [3,3]((23,27,38),(19,22,31),(13,15,21)); lvl=4; h,r-ind=1,1
      [3,3]((17,19,27),(6,7,10),(15,17,24)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,14),(17,19,27),(15,17,24)); lvl=3; h,r-ind=1,1
      [4,3]((9,10,14),(7,8,11),(13,15,21),(15,17,24)); lvl=3; h,r-ind=1,1
        [3,3]((22,25,35),(13,15,21),(7,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,14),(22,25,35),(7,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((15,17,24),(22,25,35),(13,15,21)); lvl=4; h,r-ind=1,1
        [3,3]((9,10,14),(15,17,24),(22,25,35)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,7),(23,27,38),(6,7,10)); lvl=3; h,r-ind=1,1
      [5,3]((5,6,8),(7,8,11),(4,5,7),(23,27,38),(13,15,21)); lvl=3; h,r-ind=1,1
        [3,3]((17,20,28),(23,27,38),(13,15,21)); lvl=4; h,r-ind=1,1
        [4,3]((24,28,39),(17,20,28),(28,33,46),(13,15,21)); lvl=4; h,r-ind=1,1
          [3,3]((17,20,28),(28,33,46),(41,48,67)); lvl=5; h,r-ind=1,1
          [3,3]((24,28,39),(28,33,46),(41,48,67)); lvl=5; h,r-ind=1,1
          [3,3]((13,15,21),(24,28,39),(41,48,67)); lvl=5; h,r-ind=1,1
          [3,3]((13,15,21),(17,20,28),(41,48,67)); lvl=5; h,r-ind=1,1
        [3,3]((24,28,39),(7,8,11),(13,15,21)); lvl=4; h,r-ind=1,1
        [4,3]((24,28,39),(11,13,18),(28,33,46),(7,8,11)); lvl=4; h,r-ind=1,1
          [3,3]((11,13,18),(28,33,46),(35,41,57)); lvl=5; h,r-ind=1,1
          [3,3]((24,28,39),(28,33,46),(35,41,57)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,11),(24,28,39),(35,41,57)); lvl=5; h,r-ind=1,1
          [3,3]((7,8,11),(11,13,18),(35,41,57)); lvl=5; h,r-ind=1,1
        [3,3]((5,6,8),(11,13,18),(7,8,11)); lvl=4; h,r-ind=1,1
        [3,3]((17,20,28),(4,5,7),(23,27,38)); lvl=4; h,r-ind=1,1
        [3,3]((17,20,28),(28,33,46),(4,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((11,13,18),(28,33,46),(4,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((5,6,8),(11,13,18),(4,5,7)); lvl=4; h,r-ind=1,1
    [3,3]((7,9,12),(5,6,8),(4,5,7)); lvl=2; h,r-ind=1,1
    [3,3]((3,3,4),(5,6,8),(9,10,14)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((5,6,9),(8,9,14),(7,8,12)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(7,9,12),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
    [4,3]((3,4,5),(4,5,6),(3,3,4),(5,6,8)); lvl=2; h,r-ind=1,1
      [3,3]((6,7,9),(3,3,4),(4,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(6,7,9),(4,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(5,6,8),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(6,7,9),(3,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((7,9,12),(3,4,5),(5,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(7,9,12),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,5,6),(1,1,1),(3,3,4)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(5,7,8),(4,5,6),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,7,8),(2,3,3),(4,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,3,3),(4,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(5,7,8),(2,3,3)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,8),(3,4,5),(4,5,6)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(5,7,8),(3,4,5)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(7,9,12),(5,6,9)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((6,7,11),(5,6,9),(8,9,14)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(6,7,11),(5,6,9)); lvl=1; h,r-ind=1,1
  [3,3]((13,15,24),(0,1,0),(6,7,11)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(3,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(3,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
```

24.117 Resolved

```
[3,3]((1,0,0),(0,1,0),(13,17,24)); lvl=0; h,r-ind=24,576
  [5,3]((8,11,14),(3,4,5),(5,6,8),(4,5,7),(10,13,18)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,8),(7,9,12),(4,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((23,30,40),(20,26,35),(7,9,12),(4,5,7)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,7),(20,26,35),(27,35,47)); lvl=3; h,r-ind=1,1
      [3,3]((23,30,40),(20,26,35),(27,35,47)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,12),(23,30,40),(27,35,47)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,12),(4,5,7),(27,35,47)); lvl=3; h,r-ind=1,1
    [4,3]((10,13,18),(20,26,35),(13,17,23),(4,5,7)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((13,17,23),(20,26,35),(17,22,30)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(20,26,35),(17,22,30)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,18),(13,17,23),(17,22,30)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,7),(10,13,18),(17,22,30)); lvl=3; h,r-ind=1,1
    [3,3]((9,12,16),(10,13,18),(13,17,23)); lvl=2; h,r-ind=1,1
    [6,3]((9,12,16),(12,16,21),(19,25,33),(23,30,40),(20,26,35),(13,17,23)); lvl=2; h,r-ind=1,1
      [3,3]((19,25,33),(12,16,21),(16,21,28)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,16),(12,16,21),(16,21,28)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,16),(13,17,23),(16,21,28)); lvl=3; h,r-ind=1,1
      [3,3]((23,30,40),(19,25,33),(16,21,28)); lvl=3; h,r-ind=1,1
      [3,3]((23,30,40),(20,26,35),(16,21,28)); lvl=3; h,r-ind=1,1
      [3,3]((13,17,23),(20,26,35),(16,21,28)); lvl=3; h,r-ind=1,1
    [3,3]((8,11,14),(9,12,16),(12,16,21)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,5),(19,25,33),(23,30,40),(7,9,12)); lvl=2; h,r-ind=1,1
      [3,3]((26,34,45),(23,30,40),(19,25,33)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(26,34,45),(19,25,33)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,12),(26,34,45),(23,30,40)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(7,9,12),(26,34,45)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(5,6,8),(7,9,12)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,5),(8,11,14),(12,16,21),(19,25,33)); lvl=2; h,r-ind=1,1
      [3,3]((15,20,26),(12,16,21),(8,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(15,20,26),(8,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((15,20,26),(19,25,33),(12,16,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(15,20,26),(19,25,33)); lvl=3; h,r-ind=1,1
  [3,3]((13,17,24),(4,5,7),(10,13,18)); lvl=1; h,r-ind=1,1
  [4,3]((4,6,7),(8,11,14),(6,8,11),(10,13,18)); lvl=1; h,r-ind=2,1
    [4,3]((5,7,9),(6,8,11),(9,12,16),(10,13,18)); lvl=2; h,r-ind=1,1
      [3,3]((6,8,11),(10,13,18),(15,20,27)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,16),(10,13,18),(15,20,27)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,9),(6,8,11),(15,20,27)); lvl=3; h,r-ind=1,1
      [3,3]((9,12,16),(5,7,9),(15,20,27)); lvl=3; h,r-ind=1,1
    [4,3]((4,6,7),(5,7,9),(8,11,14),(9,12,16)); lvl=2; h,r-ind=1,1
      [3,3]((13,18,23),(9,12,16),(5,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(13,18,23),(5,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((8,11,14),(13,18,23),(9,12,16)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(8,11,14),(13,18,23)); lvl=3; h,r-ind=1,1
  [3,3]((13,17,24),(6,8,11),(10,13,18)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,6,7),(7,11,12)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,6,7),(6,8,11)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((13,17,24),(0,1,0),(6,8,11)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,4),(5,6,8),(4,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,4),(1,0,0),(4,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((13,17,24),(1,0,0),(4,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(3,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [5,3]((4,6,7),(5,7,8),(7,11,12),(8,11,14),(3,4,5)); lvl=1; h,r-ind=1,1
    [6,3]((16,23,27),(20,29,34),(10,15,17),(17,25,29),(6,9,10),(9,13,15)); lvl=2; h,r-ind=1,1
      [3,3]((13,19,22),(17,25,29),(20,29,34)); lvl=3; h,r-ind=1,1
      [3,3]((13,19,22),(16,23,27),(20,29,34)); lvl=3; h,r-ind=1,1
      [3,3]((13,19,22),(9,13,15),(16,23,27)); lvl=3; h,r-ind=1,1
      [3,3]((13,19,22),(6,9,10),(9,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((10,15,17),(13,19,22),(17,25,29)); lvl=3; h,r-ind=1,1
      [3,3]((10,15,17),(13,19,22),(6,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,8),(6,9,10),(9,13,15)); lvl=2; h,r-ind=1,1
    [4,3]((3,4,5),(5,7,8),(16,23,27),(9,13,15)); lvl=2; h,r-ind=1,1
      [3,3]((12,17,20),(9,13,15),(5,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(12,17,20),(5,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((12,17,20),(16,23,27),(9,13,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,5),(12,17,20),(16,23,27)); lvl=3; h,r-ind=1,1
    [4,3]((7,10,12),(3,4,5),(16,23,27),(20,29,34)); lvl=2; h,r-ind=1,1
      [3,3]((3,4,5),(16,23,27),(23,33,39)); lvl=3; h,r-ind=1,1
      [3,3]((20,29,34),(16,23,27),(23,33,39)); lvl=3; h,r-ind=1,1
      [3,3]((7,10,12),(3,4,5),(23,33,39)); lvl=3; h,r-ind=1,1
      [3,3]((20,29,34),(7,10,12),(23,33,39)); lvl=3; h,r-ind=1,1
    [3,3]((8,11,14),(7,10,12),(3,4,5)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,7),(7,10,12),(20,29,34),(17,25,29)); lvl=2; h,r-ind=1,1
      [3,3]((20,29,34),(7,10,12),(24,35,41)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(7,10,12),(24,35,41)); lvl=3; h,r-ind=1,1
      [3,3]((17,25,29),(4,6,7),(24,35,41)); lvl=3; h,r-ind=1,1
      [3,3]((17,25,29),(20,29,34),(24,35,41)); lvl=3; h,r-ind=1,1
    [3,3]((4,6,7),(8,11,14),(7,10,12)); lvl=2; h,r-ind=1,1
    [3,3]((7,11,12),(10,15,17),(6,9,10)); lvl=2; h,r-ind=1,1
    [4,3]((4,6,7),(7,11,12),(10,15,17),(17,25,29)); lvl=2; h,r-ind=1,1
      [3,3]((14,21,24),(7,11,12),(10,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((17,25,29),(14,21,24),(10,15,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(17,25,29),(14,21,24)); lvl=3; h,r-ind=1,1
      [3,3]((4,6,7),(14,21,24),(7,11,12)); lvl=3; h,r-ind=1,1
  [4,3]((0,1,0),(1,1,1),(5,7,8),(7,11,12)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,3),(1,1,1),(5,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((6,9,10),(2,3,3),(5,8,8),(5,7,8)); lvl=2; h,r-ind=1,1
```

```
      [3,3]((5,8,8),(8,12,13),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((5,7,8),(8,12,13),(2,3,3)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,10),(5,7,8),(8,12,13)); lvl=3; h,r-ind=1,1
      [3,3]((6,9,10),(5,8,8),(8,12,13)); lvl=3; h,r-ind=1,1
    [4,3]((7,11,12),(6,9,10),(3,5,5),(5,8,8)); lvl=2; h,r-ind=1,1
      [3,3]((9,14,15),(6,9,10),(5,8,8)); lvl=3; h,r-ind=1,1
      [3,3]((9,14,15),(3,5,5),(5,8,8)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,12),(9,14,15),(3,5,5)); lvl=3; h,r-ind=1,1
      [3,3]((7,11,12),(9,14,15),(6,9,10)); lvl=3; h,r-ind=1,1
    [3,3]((0,1,0),(3,5,5),(5,8,8)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(7,11,12),(3,5,5)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(5,8,8)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,1
  [5,3]((1,1,1),(3,3,4),(5,7,8),(3,4,5),(5,6,8)); lvl=1; h,r-ind=1,1
    [5,3]((3,3,4),(5,6,8),(9,11,14),(10,12,15),(7,8,10)); lvl=2; h,r-ind=1,1
      [3,3]((9,11,14),(5,6,8),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(5,6,8),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,14),(10,12,15),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,10),(10,12,15),(6,7,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,3,4),(7,8,10),(6,7,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(4,5,6),(10,12,15),(7,8,10)); lvl=2; h,r-ind=1,1
      [3,3]((4,5,6),(10,12,15),(11,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,10),(10,12,15),(11,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(4,5,6),(11,13,16)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,10),(1,1,1),(11,13,16)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(3,3,4),(7,8,10)); lvl=2; h,r-ind=1,1
    [3,3]((3,4,5),(5,6,8),(9,11,14)); lvl=2; h,r-ind=1,1
    [4,3]((4,5,6),(3,4,5),(9,11,14),(10,12,15)); lvl=2; h,r-ind=1,1
      [3,3]((13,16,20),(9,11,14),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(13,16,20),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((10,12,15),(13,16,20),(9,11,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(10,12,15),(13,16,20)); lvl=3; h,r-ind=1,1
    [3,3]((5,7,8),(4,5,6),(3,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(5,7,8),(4,5,6)); lvl=2; h,r-ind=1,1
```

24.118 Resolved

```
[3,3]((1,0,0),(0,1,0),(14,15,24)); lvl=0; h,r-ind=24,96
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,4),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,2,3),(3,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,8),(2,2,3),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((4,5,6),(3,3,4),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(3,3,4),(6,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,3),(4,5,6),(3,3,4),(6,7,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,3,4),(4,5,6),(5,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(4,5,6),(5,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,8),(3,3,4),(5,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(6,7,8),(5,6,7)); lvl=3; h,r-ind=1,1
    [4,3]((0,1,0),(2,3,3),(1,1,1),(6,7,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,4),(2,3,3),(6,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,4),(1,1,1),(6,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(3,4,4),(2,3,3)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,5),(5,6,8),(4,5,6),(0,1,0)); lvl=1; h,r-ind=1,1
    [4,3]((5,6,8),(10,13,16),(2,3,3),(4,5,6)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,3,3),(10,13,16),(7,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(10,13,16),(7,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(2,3,3),(7,9,11)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(4,5,6),(7,9,11)); lvl=3; h,r-ind=1,1
    [3,3]((3,4,5),(5,6,8),(10,13,16)); lvl=2; h,r-ind=1,1
    [4,3]((0,1,0),(3,4,5),(10,13,16),(2,3,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,7,8),(10,13,16),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((0,1,0),(5,7,8),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(0,1,0),(5,7,8)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(5,7,8),(10,13,16)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,5),(7,8,12),(0,1,0)); lvl=1; h,r-ind=1,1
  [5,3]((8,9,13),(5,6,8),(4,5,6),(2,2,3),(3,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((8,9,12),(3,3,4),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((7,8,11),(8,9,12),(13,15,20),(2,2,3)); lvl=2; h,r-ind=1,1
      [3,3]((15,17,23),(8,9,12),(13,15,20)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,11),(15,17,23),(13,15,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(7,8,11),(15,17,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(15,17,23),(8,9,12)); lvl=3; h,r-ind=1,1
    [3,3]((8,9,13),(7,8,11),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((7,8,11),(11,13,17),(13,15,20),(5,6,8)); lvl=2; h,r-ind=1,1
      [3,3]((18,21,28),(11,13,17),(13,15,20)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((7,8,11),(18,21,28),(13,15,20)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(7,8,11),(18,21,28)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(18,21,28),(11,13,17)); lvl=3; h,r-ind=1,1
    [3,3]((8,9,13),(7,8,11),(5,6,8)); lvl=2; h,r-ind=1,1
    [3,3]((8,9,12),(4,5,6),(3,3,4)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((8,9,12),(11,13,17),(13,15,20),(4,5,6)); lvl=2; h,r-ind=1,1
      [3,3]((11,13,17),(13,15,20),(30,35,46)); lvl=3; h,r-ind=1,1
      [4,3]((6,7,9),(8,9,12),(13,15,20),(30,35,46)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((19,22,29),(13,15,20),(8,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,9),(19,22,29),(8,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((30,35,46),(19,22,29),(13,15,20)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,9),(30,35,46),(19,22,29)); lvl=4; h,r-ind=1,1
      [4,3]((4,5,6),(6,7,9),(11,13,17),(30,35,46)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((6,7,9),(30,35,46),(17,20,26)); lvl=4; h,r-ind=1,1
        [3,3]((11,13,17),(30,35,46),(17,20,26)); lvl=4; h,r-ind=1,1
        [3,3]((4,5,6),(6,7,9),(17,20,26)); lvl=4; h,r-ind=1,1
        [3,3]((11,13,17),(4,5,6),(17,20,26)); lvl=4; h,r-ind=1,1
    [3,3]((11,13,17),(5,6,8),(4,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((9,10,15),(12,13,20),(8,9,13),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((11,12,18),(2,2,3),(12,13,20)); lvl=2; h,r-ind=1,1
    [3,3]((9,10,15),(11,12,18),(12,13,20)); lvl=2; h,r-ind=1,1
    [3,3]((9,10,15),(8,9,13),(11,12,18)); lvl=2; h,r-ind=1,1
    [3,3]((8,9,13),(11,12,18),(2,2,3)); lvl=2; h,r-ind=1,1
  [4,3]((14,15,24),(12,13,20),(5,5,8),(2,2,3)); lvl=1; h,r-ind=1,1
    [3,3]((5,5,8),(18,19,30),(2,2,3)); lvl=2; h,r-ind=1,1
    [4,3]((13,14,22),(12,13,20),(18,19,30),(2,2,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((15,16,25),(2,2,3),(12,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((13,14,22),(15,16,25),(12,13,20)); lvl=3; h,r-ind=1,1
      [3,3]((15,16,25),(18,19,30),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((13,14,22),(15,16,25),(18,19,30)); lvl=3; h,r-ind=1,1
    [3,3]((14,15,24),(13,14,22),(18,19,30)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((14,15,24),(5,5,8),(18,19,30)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((14,15,24),(10,11,17),(9,10,15),(12,13,20)); lvl=1; h,r-ind=1,1
    [3,3]((10,11,17),(9,10,15),(32,35,54)); lvl=2; h,r-ind=1,1
    [4,3]((13,14,22),(12,13,20),(9,10,15),(32,35,54)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((22,24,37),(12,13,20),(9,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((32,35,54),(22,24,37),(9,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((13,14,22),(32,35,54),(22,24,37)); lvl=3; h,r-ind=1,1
      [3,3]((13,14,22),(22,24,37),(12,13,20)); lvl=3; h,r-ind=1,1
    [4,3]((14,15,24),(13,14,22),(10,11,17),(32,35,54)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((23,25,39),(13,14,22),(32,35,54)); lvl=3; h,r-ind=1,1
      [3,3]((10,11,17),(23,25,39),(32,35,54)); lvl=3; h,r-ind=1,1
      [3,3]((14,15,24),(23,25,39),(13,14,22)); lvl=3; h,r-ind=1,1
      [3,3]((10,11,17),(14,15,24),(23,25,39)); lvl=3; h,r-ind=1,1
  [4,3]((3,4,5),(9,10,15),(8,9,13),(5,6,8)); lvl=1; h,r-ind=1,1
    [4,3]((6,7,10),(9,10,15),(8,9,13),(19,22,31)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((14,16,23),(8,9,13),(9,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,10),(14,16,23),(9,10,15)); lvl=3; h,r-ind=1,1
      [3,3]((14,16,23),(19,22,31),(8,9,13)); lvl=3; h,r-ind=1,1
      [3,3]((6,7,10),(14,16,23),(19,22,31)); lvl=3; h,r-ind=1,1
    [3,3]((5,6,8),(8,9,13),(19,22,31)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,8),(3,4,5),(6,7,10),(19,22,31)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,7,10),(11,13,18),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(11,13,18),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((19,22,31),(6,7,10),(11,13,18)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(19,22,31),(11,13,18)); lvl=3; h,r-ind=1,1
  [4,3]((10,11,17),(3,4,5),(7,8,12),(9,10,15)); lvl=1; h,r-ind=1,1
    [4,3]((23,26,39),(6,7,10),(7,8,12),(3,4,5)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((13,15,22),(6,7,10),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,12),(13,15,22),(3,4,5)); lvl=3; h,r-ind=1,1
      [3,3]((23,26,39),(13,15,22),(6,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((7,8,12),(23,26,39),(13,15,22)); lvl=3; h,r-ind=1,1
    [3,3]((10,11,17),(23,26,39),(7,8,12)); lvl=2; h,r-ind=1,1
    [4,3]((10,11,17),(23,26,39),(9,10,15),(6,7,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((23,26,39),(16,18,27),(6,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((9,10,15),(16,18,27),(6,7,10)); lvl=3; h,r-ind=1,1
      [3,3]((10,11,17),(9,10,15),(16,18,27)); lvl=3; h,r-ind=1,1
      [3,3]((10,11,17),(23,26,39),(16,18,27)); lvl=3; h,r-ind=1,1
  [3,3]((14,15,24),(10,11,17),(7,8,12)); lvl=1; h,r-ind=1,1
```

24.119 Resolved

```
[3,3]((1,0,0),(0,1,0),(14,19,24)); lvl=0; h,r-ind=24,288
  [3,3]((1,1,1),(4,5,6),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,5),(4,5,6),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((14,19,24),(3,4,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
```

```
  [3,3]((1,1,1),(2,3,3),(4,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((3,4,5),(2,3,3),(4,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,5),(2,3,3)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(7,10,12),(3,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((14,19,24),(7,10,12),(3,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(2,3,3)); lvl=1; h,r-ind=1,1
```

24.120 Resolved

```
[3,3]((1,0,0),(0,1,0),(14,21,24)); lvl=0; h,r-ind=24,96
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,7,8),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(6,9,10),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((7,11,12),(6,9,10),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((14,21,24),(7,11,12),(6,9,10)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((2,3,3),(6,9,10),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((5,7,8),(6,9,10),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((14,21,24),(5,7,8),(6,9,10)); lvl=1; h,r-ind=2,2; optimized-h
```

24.121 Resolved

```
[3,3]((1,0,0),(0,1,0),(14,23,24)); lvl=0; h,r-ind=24,288
  [3,3]((2,3,3),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((14,23,24),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(14,23,24),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(3,5,5),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((14,23,24),(2,3,3),(3,5,5)); lvl=1; h,r-ind=1,1
  [3,3]((3,5,5),(0,1,0),(7,12,12)); lvl=1; h,r-ind=1,1
  [3,3]((14,23,24),(3,5,5),(7,12,12)); lvl=1; h,r-ind=1,1
```

24.122 Resolved

```
[3,3]((1,0,0),(0,1,0),(15,16,24)); lvl=0; h,r-ind=24,24
  [4,3]((2,2,3),(9,11,12),(5,6,7),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((5,6,7),(9,11,12),(6,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(9,11,12),(6,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(5,6,7),(6,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,2,3),(6,7,8)); lvl=2; h,r-ind=1,1
  [3,3]((0,1,0),(9,11,12),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,0),(2,2,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((0,1,0),(9,11,12),(5,6,7),(4,5,6)); lvl=1; h,r-ind=1,1
    [4,3]((3,4,4),(15,19,21),(9,11,12),(5,6,7)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((8,10,11),(5,6,7),(15,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,4),(8,10,11),(15,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,12),(8,10,11),(5,6,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,4,4),(9,11,12),(8,10,11)); lvl=3; h,r-ind=1,1
    [4,3]((7,9,10),(15,19,21),(4,5,6),(5,6,7)); lvl=2; h,r-ind=1,1
      [3,3]((12,15,17),(5,6,7),(15,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,10),(12,15,17),(15,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((7,9,10),(12,15,17),(4,5,6)); lvl=3; h,r-ind=1,1
      [3,3]((12,15,17),(4,5,6),(5,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(7,9,10),(4,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,3),(3,4,4),(7,9,10),(15,19,21)); lvl=2; h,r-ind=1,1
      [3,3]((10,13,14),(3,4,4),(15,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((10,13,14),(7,9,10),(15,19,21)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(10,13,14),(7,9,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(10,13,14),(3,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,3),(0,1,0),(3,4,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,2,3),(5,6,7),(4,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((7,8,11),(2,2,3),(4,5,6)); lvl=1; h,r-ind=1,1
  [4,3]((15,16,24),(7,8,11),(15,17,24),(2,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((10,11,16),(19,21,30),(7,8,11),(15,17,24)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((17,19,27),(19,21,30),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((15,17,24),(17,19,27),(7,8,11)); lvl=3; h,r-ind=1,1
      [3,3]((10,11,16),(15,17,24),(17,19,27)); lvl=3; h,r-ind=1,1
      [3,3]((10,11,16),(17,19,27),(19,21,30)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(10,11,16),(19,21,30)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((2,2,3),(10,11,16),(15,16,24)); lvl=2; h,r-ind=1,1
    [3,3]((2,2,3),(19,21,30),(7,8,11)); lvl=2; h,r-ind=1,1
  [4,3]((0,1,0),(7,8,11),(15,17,24),(4,5,6)); lvl=1; h,r-ind=1,1
    [4,3]((4,5,6),(21,25,33),(7,8,11),(9,11,14)); lvl=2; h,r-ind=1,1
      [3,3]((7,8,11),(21,25,33),(16,19,25)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,14),(21,25,33),(16,19,25)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(9,11,14),(16,19,25)); lvl=3; h,r-ind=1,1
      [3,3]((4,5,6),(7,8,11),(16,19,25)); lvl=3; h,r-ind=1,1
    [4,3]((2,3,3),(5,6,8),(21,25,33),(9,11,14)); lvl=2; h,r-ind=1,1
      [3,3]((5,6,8),(21,25,33),(14,17,22)); lvl=3; h,r-ind=1,1
      [3,3]((9,11,14),(21,25,33),(14,17,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(9,11,14),(14,17,22)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(5,6,8),(14,17,22)); lvl=3; h,r-ind=1,1
    [3,3]((4,5,6),(2,3,3),(9,11,14)); lvl=2; h,r-ind=1,1
    [3,3]((0,1,0),(2,3,3),(5,6,8)); lvl=2; h,r-ind=1,1
    [4,3]((5,6,8),(21,25,33),(15,17,24),(7,8,11)); lvl=2; h,r-ind=1,3; alert-r-inc
      [3,3]((7,8,11),(21,25,33),(12,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(21,25,33),(12,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((15,17,24),(7,8,11),(12,14,19)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,8),(15,17,24),(12,14,19)); lvl=3; h,r-ind=1,1
```

24.123 Resolved

```
[3,3]((1,0,0),(0,1,0),(15,20,24)); lvl=0; h,r-ind=24,48
  [3,3]((0,1,0),(6,8,9),(3,4,4)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,1),(6,8,9),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,6),(1,1,1),(6,8,9)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,7,8),(6,8,9)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((12,16,19),(5,7,8),(6,8,9)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((4,5,6),(12,16,19),(6,8,9)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((15,20,24),(12,16,19),(5,7,8)); lvl=1; h,r-ind=1,1
  [3,3]((4,5,6),(15,20,24),(12,16,19)); lvl=1; h,r-ind=1,1
```

24.124 Resolved

```
[3,3]((1,0,0),(0,1,0),(15,22,24)); lvl=0; h,r-ind=24,96
  [3,3]((3,4,4),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(3,4,4),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((15,23,24),(2,3,3),(0,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((9,13,14),(2,3,3),(3,4,4)); lvl=1; h,r-ind=1,1
  [4,3]((15,22,24),(15,23,24),(9,13,14),(2,3,3)); lvl=1; h,r-ind=1,2
    [3,3]((2,3,3),(10,15,16),(15,23,24)); lvl=2; h,r-ind=1,1
    [3,3]((19,28,30),(2,3,3),(10,15,16)); lvl=2; h,r-ind=1,1
    [3,3]((15,22,24),(19,28,30),(10,15,16)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
    [3,3]((9,13,14),(19,28,30),(2,3,3)); lvl=2; h,r-ind=1,1
    [3,3]((15,22,24),(9,13,14),(19,28,30)); lvl=2; h,r-ind=2,2; alert-h-inc; optimized-h
  [3,3]((9,13,14),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((15,22,24),(8,11,12),(9,13,14),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((8,11,12),(16,23,25),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((9,13,14),(16,23,25),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((15,22,24),(9,13,14),(16,23,25)); lvl=2; h,r-ind=1,1
    [3,3]((15,22,24),(8,11,12),(16,23,25)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(8,11,12),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.125 Resolved

```
[3,3]((1,0,0),(0,1,0),(15,23,24)); lvl=0; h,r-ind=24,192
  [3,3]((0,1,0),(2,3,3),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(0,1,0),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((15,23,24),(1,1,1),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(15,23,24),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((15,23,24),(2,3,3),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(5,8,8)); lvl=1; h,r-ind=1,1
  [3,3]((15,23,24),(2,3,3),(5,8,8)); lvl=1; h,r-ind=1,1
```

24.126 Resolved

```
[3,3]((1,0,0),(0,1,0),(16,17,24)); lvl=0; h,r-ind=24,72
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,3,4),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,7),(3,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((16,17,24),(5,5,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((8,9,12),(3,3,4),(1,1,1),(0,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(3,3,4),(12,13,16)); lvl=2; h,r-ind=1,1
    [4,3]((8,9,12),(4,5,6),(3,3,4),(12,13,16)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((3,3,4),(10,11,14),(8,9,11),(12,13,16)); lvl=3; h,r-ind=1,2
        [3,3]((11,12,15),(8,9,11),(10,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,4),(11,12,15),(10,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,16),(11,12,15),(8,9,11)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,4),(12,13,16),(11,12,15)); lvl=4; h,r-ind=1,1
      [4,3]((8,9,12),(6,7,9),(3,3,4),(10,11,14)); lvl=3; h,r-ind=1,2
        [3,3]((6,7,9),(9,10,13),(10,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,4),(9,10,13),(10,11,14)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,12),(3,3,4),(9,10,13)); lvl=4; h,r-ind=1,1
        [3,3]((8,9,12),(6,7,9),(9,10,13)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,6),(10,11,14),(8,9,11)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((6,7,9),(4,5,6),(10,11,14)); lvl=3; h,r-ind=2,2; optimized-h
    [4,3]((0,1,0),(4,5,6),(1,1,1),(12,13,16)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((1,1,1),(8,9,11),(12,13,16),(6,7,8)); lvl=3; h,r-ind=1,2
        [3,3]((8,9,11),(12,13,16),(9,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(12,13,16),(9,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((6,7,8),(8,9,11),(9,10,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(6,7,8),(9,10,12)); lvl=4; h,r-ind=1,1
      [3,3]((4,5,6),(8,9,11),(6,7,8)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((4,5,6),(2,3,3),(6,7,8)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((0,1,0),(1,1,1),(2,3,3),(6,7,8)); lvl=3; h,r-ind=1,2
        [3,3]((3,4,4),(6,7,8),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(0,1,0),(3,4,4)); lvl=4; h,r-ind=1,1
        [3,3]((2,3,3),(3,4,4),(6,7,8)); lvl=4; h,r-ind=1,1
  [4,3]((16,17,24),(8,9,12),(5,5,7),(3,3,4)); lvl=1; h,r-ind=1,1
    [3,3]((5,5,7),(3,3,4),(28,29,40)); lvl=2; h,r-ind=1,1
    [4,3]((8,9,12),(12,13,18),(3,3,4),(28,29,40)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((3,3,4),(20,21,29),(28,29,40),(18,19,26)); lvl=3; h,r-ind=1,2
        [3,3]((28,29,40),(23,24,33),(20,21,29)); lvl=4; h,r-ind=1,1
        [3,3]((18,19,26),(23,24,33),(20,21,29)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,4),(18,19,26),(23,24,33)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,4),(28,29,40),(23,24,33)); lvl=4; h,r-ind=1,1
      [3,3]((20,21,29),(12,13,18),(18,19,26)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((10,11,15),(12,13,18),(18,19,26)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((3,3,4),(8,9,12),(10,11,15),(18,19,26)); lvl=3; h,r-ind=1,2
        [3,3]((13,14,19),(10,11,15),(8,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,4),(13,14,19),(8,9,12)); lvl=4; h,r-ind=1,1
        [3,3]((18,19,26),(13,14,19),(10,11,15)); lvl=4; h,r-ind=1,1
        [3,3]((3,3,4),(18,19,26),(13,14,19)); lvl=4; h,r-ind=1,1
    [4,3]((16,17,24),(12,13,18),(5,5,7),(28,29,40)); lvl=2; h,r-ind=2,4; alert-h-inc; alert-r-inc
      [4,3]((5,5,7),(28,29,40),(20,21,29),(22,23,32)); lvl=3; h,r-ind=1,2
        [3,3]((20,21,29),(25,26,36),(28,29,40)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,7),(25,26,36),(28,29,40)); lvl=4; h,r-ind=1,1
        [3,3]((22,23,32),(5,5,7),(25,26,36)); lvl=4; h,r-ind=1,1
        [3,3]((22,23,32),(20,21,29),(25,26,36)); lvl=4; h,r-ind=1,1
      [3,3]((12,13,18),(20,21,29),(22,23,32)); lvl=3; h,r-ind=2,2; optimized-h
      [3,3]((14,15,21),(12,13,18),(22,23,32)); lvl=3; h,r-ind=2,2; optimized-h
      [4,3]((5,5,7),(16,17,24),(14,15,21),(22,23,32)); lvl=3; h,r-ind=1,2
        [3,3]((19,20,28),(14,15,21),(16,17,24)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,7),(19,20,28),(16,17,24)); lvl=4; h,r-ind=1,1
        [3,3]((22,23,32),(19,20,28),(14,15,21)); lvl=4; h,r-ind=1,1
        [3,3]((5,5,7),(22,23,32),(19,20,28)); lvl=4; h,r-ind=1,1
```

24.127 Resolved

```
[3,3]((1,0,0),(0,1,0),(16,21,24)); lvl=0; h,r-ind=24,24
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((17,21,24),(1,1,1),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((2,3,3),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((2,3,3),(8,11,12),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((6,8,9),(8,11,12),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((6,8,9),(16,21,24),(17,21,24),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(17,21,24),(11,14,16)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(18,23,26),(11,14,16)); lvl=2; h,r-ind=1,1
    [4,3]((6,8,9),(18,23,26),(16,21,24),(11,14,16)); lvl=2; h,r-ind=1,2; alert-r-inc
```

```
      [3,3]((18,23,26),(17,22,25),(11,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((16,21,24),(17,22,25),(11,14,16)); lvl=3; h,r-ind=1,1
      [3,3]((6,8,9),(18,23,26),(17,22,25)); lvl=3; h,r-ind=1,1
      [3,3]((16,21,24),(6,8,9),(17,22,25)); lvl=3; h,r-ind=1,1
    [3,3]((6,8,9),(1,1,1),(18,23,26)); lvl=2; h,r-ind=1,1
```

24.128 Resolved

```
[3,3]((1,0,0),(0,1,0),(16,23,24)); lvl=0; h,r-ind=24,72
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((16,23,24),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((16,23,24),(2,3,3),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.129 Resolved

```
[3,3]((1,0,0),(0,1,0),(17,17,24)); lvl=0; h,r-ind=24,576
  [3,3]((3,3,4),(5,5,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((17,17,24),(5,5,7),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,1,1),(3,3,4),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(3,3,4)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,3,4),(5,5,7)); lvl=1; h,r-ind=1,1
  [3,3]((17,17,24),(0,1,0),(5,5,7)); lvl=1; h,r-ind=1,1
```

24.130 Resolved

```
[3,3]((1,0,0),(0,1,0),(17,20,24)); lvl=0; h,r-ind=24,144
  [4,3]((9,10,12),(1,1,1),(1,0,0),(6,7,8)); lvl=1; h,r-ind=1,1
    [4,3]((5,5,6),(1,0,0),(11,12,14),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,6,7),(1,1,1),(1,0,0)); lvl=3; h,r-ind=1,1
      [3,3]((5,5,6),(6,6,7),(1,0,0)); lvl=3; h,r-ind=1,1
      [3,3]((11,12,14),(6,6,7),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((5,5,6),(11,12,14),(6,6,7)); lvl=3; h,r-ind=1,1
    [3,3]((6,7,8),(11,12,14),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((9,10,12),(6,7,8),(11,12,14)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((9,10,12),(5,5,6),(11,12,14)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((17,20,24),(9,10,12),(5,6,7),(6,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((19,22,26),(6,7,8),(9,10,12)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((13,15,18),(19,22,26),(9,10,12)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((19,22,26),(5,6,7),(6,7,8)); lvl=2; h,r-ind=1,1
    [4,3]((17,20,24),(13,15,18),(19,22,26),(5,6,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((18,21,25),(13,15,18),(19,22,26)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,7),(18,21,25),(19,22,26)); lvl=3; h,r-ind=1,1
      [3,3]((17,20,24),(18,21,25),(13,15,18)); lvl=3; h,r-ind=1,1
      [3,3]((5,6,7),(17,20,24),(18,21,25)); lvl=3; h,r-ind=1,1
  [3,3]((3,4,4),(1,1,1),(6,7,8)); lvl=1; h,r-ind=1,1
  [3,3]((5,6,7),(3,4,4),(6,7,8)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,6,7),(3,4,4)); lvl=1; h,r-ind=1,1
  [3,3]((17,20,24),(0,1,0),(5,6,7)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
```

24.131 Resolved

```
[3,3]((1,0,0),(0,1,0),(18,19,24)); lvl=0; h,r-ind=24,96
  [3,3]((5,5,6),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((5,5,6),(4,4,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((18,19,24),(4,4,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((18,19,24),(9,10,12),(5,5,6),(4,4,5)); lvl=1; h,r-ind=1,1
    [3,3]((21,22,27),(9,10,12),(5,5,6)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((21,22,27),(4,4,5),(5,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((27,29,36),(18,19,24),(21,22,27),(4,4,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((39,41,51),(4,4,5),(15,16,20),(18,19,24)); lvl=3; h,r-ind=1,3
        [3,3]((19,20,25),(4,4,5),(18,19,24)); lvl=4; h,r-ind=1,1
        [3,3]((19,20,25),(15,16,20),(18,19,24)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((39,41,51),(19,20,25),(15,16,20)); lvl=4; h,r-ind=1,1
        [3,3]((39,41,51),(19,20,25),(4,4,5)); lvl=4; h,r-ind=1,1
      [3,3]((16,17,21),(39,41,51),(15,16,20)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((27,29,36),(16,17,21),(15,16,20)); lvl=3; h,r-ind=1,1
      [4,3]((16,17,21),(39,41,51),(21,22,27),(4,4,5)); lvl=3; h,r-ind=1,3
        [3,3]((4,4,5),(39,41,51),(20,21,26)); lvl=4; h,r-ind=1,1
        [3,3]((16,17,21),(39,41,51),(20,21,26)); lvl=4; h,r-ind=1,1
        [3,3]((21,22,27),(4,4,5),(20,21,26)); lvl=4; h,r-ind=1,1
        [3,3]((16,17,21),(21,22,27),(20,21,26)); lvl=4; h,r-ind=1,1
    [3,3]((27,29,36),(21,22,27),(9,10,12)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((0,1,0),(9,10,12),(5,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((9,10,12),(12,13,15),(5,5,6)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,1,1),(12,13,15),(5,5,6)); lvl=2; h,r-ind=1,1
    [4,3]((9,11,12),(0,1,0),(1,1,1),(12,13,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((3,4,4),(12,14,15),(1,1,1),(0,1,0)); lvl=3; h,r-ind=1,3
        [3,3]((4,5,5),(12,14,15),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((0,1,0),(4,5,5),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,4),(0,1,0),(4,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((3,4,4),(4,5,5),(12,14,15)); lvl=4; h,r-ind=1,1
      [4,3]((7,8,9),(12,14,15),(12,13,15),(1,1,1)); lvl=3; h,r-ind=1,3
        [3,3]((8,9,10),(12,14,15),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,15),(8,9,10),(1,1,1)); lvl=4; h,r-ind=1,1
        [3,3]((7,8,9),(8,9,10),(12,14,15)); lvl=4; h,r-ind=1,1
        [3,3]((12,13,15),(7,8,9),(8,9,10)); lvl=4; h,r-ind=1,1
      [3,3]((7,8,9),(3,4,4),(12,14,15)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((9,11,12),(7,8,9),(3,4,4)); lvl=3; h,r-ind=1,1
    [3,3]((9,11,12),(9,10,12),(12,13,15)); lvl=2; h,r-ind=9,3; alert-h-inc; alert-r-inc; optimized-h
```

24.132 Resolved

```
[3,3]((1,0,0),(0,1,0),(18,23,24)); lvl=0; h,r-ind=24,96
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((18,23,24),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((18,23,24),(3,4,4),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.133 Resolved

```
[3,3]((1,0,0),(0,1,0),(19,19,24)); lvl=0; h,r-ind=24,576
  [3,3]((1,0,0),(1,1,1),(5,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(5,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((4,4,5),(1,0,0),(5,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(4,4,5),(5,5,6)); lvl=1; h,r-ind=1,1
  [3,3]((19,19,24),(0,1,0),(4,4,5)); lvl=1; h,r-ind=1,1
  [3,3]((19,19,24),(4,4,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.134 Resolved

```
[3,3]((1,0,0),(0,1,0),(20,21,24)); lvl=0; h,r-ind=24,48
  [3,3]((1,1,1),(0,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((7,7,8),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((10,11,12),(1,1,1),(0,1,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((20,21,24),(10,11,12),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((20,21,24),(7,7,8),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.135 Resolved

```
[3,3]((1,0,0),(0,1,0),(20,23,24)); lvl=0; h,r-ind=24,144
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((20,23,24),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(5,6,6),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((20,23,24),(5,6,6),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.136 Resolved

```
[3,3]((1,0,0),(0,1,0),(21,22,24)); lvl=0; h,r-ind=24,96
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((11,11,12),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((21,23,24),(0,1,0),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((21,22,24),(21,23,24),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((21,22,24),(11,11,12),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.137 Resolved

```
[3,3]((1,0,0),(0,1,0),(21,23,24)); lvl=0; h,r-ind=24,192
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((21,23,24),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((7,8,8),(0,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((21,23,24),(7,8,8),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.138 Resolved

```
[3,3]((1,0,0),(0,1,0),(22,23,24)); lvl=0; h,r-ind=24,288
  [3,3]((22,23,24),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,1,1),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((22,23,24),(11,12,12),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(11,12,12),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.139 Resolved

```
[3,3]((1,0,0),(0,1,0),(23,23,24)); lvl=0; h,r-ind=24,576
  [3,3]((23,23,24),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(1,0,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((0,1,0),(23,23,24),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.140 Resolved

```
[3,3]((1,0,0),(1,2,0),(1,0,12)); lvl=0; h,r-ind=24,12
  [4,3]((1,0,6),(1,1,3),(1,1,0),(1,0,0)); lvl=1; h,r-ind=3,1
    [4,3]((1,0,3),(1,0,0),(2,2,3),(1,1,0)); lvl=2; h,r-ind=3,1
      [3,3]((1,0,3),(1,1,1),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,3),(2,0,3),(1,1,1)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((1,0,0),(2,0,3),(1,1,0),(1,1,1)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,1),(1,1,0),(3,2,2)); lvl=4; h,r-ind=1,1
        [4,3]((1,0,0),(1,0,1),(1,1,0),(3,2,2)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,1,1),(1,0,1),(3,2,2)); lvl=5; h,r-ind=1,1
          [3,3]((2,1,1),(1,1,0),(3,2,2)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(2,1,1),(1,1,0)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,0),(2,1,1),(1,0,1)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,1),(1,1,1),(3,2,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,1),(2,0,3),(1,1,1)); lvl=4; h,r-ind=1,1
    [4,3]((1,0,6),(1,0,3),(1,1,3),(2,2,3)); lvl=2; h,r-ind=3,1
      [3,3]((1,0,3),(2,2,3),(1,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,3),(2,0,9),(1,1,2)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((1,0,6),(2,0,9),(1,1,3),(1,1,2)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,2),(1,1,3),(3,2,10)); lvl=4; h,r-ind=1,1
        [4,3]((1,0,6),(1,0,5),(1,1,3),(3,2,10)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,1,8),(1,0,5),(3,2,10)); lvl=5; h,r-ind=1,1
          [3,3]((2,1,8),(1,1,3),(3,2,10)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,6),(2,1,8),(1,1,3)); lvl=5; h,r-ind=1,1
          [3,3]((1,0,6),(2,1,8),(1,0,5)); lvl=5; h,r-ind=1,1
        [3,3]((1,0,5),(1,1,2),(3,2,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,5),(2,0,9),(1,1,2)); lvl=4; h,r-ind=1,1
  [4,3]((1,1,6),(1,0,12),(1,0,6),(1,1,3)); lvl=1; h,r-ind=3,1
    [4,3]((2,2,9),(1,1,3),(1,0,9),(1,0,6)); lvl=2; h,r-ind=3,1
      [3,3]((1,1,4),(1,0,9),(2,0,15)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((1,1,3),(1,1,4),(1,0,6),(2,0,15)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,4),(1,0,7),(2,0,15)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,4),(1,0,7),(3,2,14)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((1,1,4),(1,1,3),(3,2,14)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,3),(1,0,6),(1,0,7),(3,2,14)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((2,1,10),(1,0,7),(1,0,6)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(2,1,10),(1,0,6)); lvl=5; h,r-ind=1,1
          [3,3]((3,2,14),(2,1,10),(1,0,7)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,3),(3,2,14),(2,1,10)); lvl=5; h,r-ind=1,1
      [3,3]((1,1,4),(2,2,9),(1,0,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,6),(2,2,9),(1,0,12),(1,0,9)); lvl=2; h,r-ind=3,1
      [3,3]((1,1,5),(1,0,9),(2,0,21)); lvl=3; h,r-ind=3,3; alert-r-inc; optimized-h
      [4,3]((1,1,6),(1,1,5),(1,0,12),(2,0,21)); lvl=3; h,r-ind=1,1
        [3,3]((1,1,5),(1,0,11),(2,0,21)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,5),(3,2,22),(1,0,11)); lvl=4; h,r-ind=1,1
        [4,3]((1,1,6),(3,2,22),(1,0,12),(1,0,11)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((1,0,12),(2,1,17),(1,0,11)); lvl=5; h,r-ind=1,1
          [3,3]((3,2,22),(2,1,17),(1,0,11)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(3,2,22),(2,1,17)); lvl=5; h,r-ind=1,1
          [3,3]((1,1,6),(1,0,12),(2,1,17)); lvl=5; h,r-ind=1,1
        [3,3]((1,1,5),(1,1,6),(3,2,22)); lvl=4; h,r-ind=1,1
      [3,3]((2,2,9),(1,1,5),(1,0,9)); lvl=3; h,r-ind=1,1
  [3,3]((1,1,3),(1,2,0),(1,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,6),(1,1,3),(1,2,0)); lvl=1; h,r-ind=3,3; optimized-h
```

24.141 Resolved

```
[3,3]((1,0,0),(1,2,0),(1,4,12)); lvl=0; h,r-ind=24,36
  [4,3]((1,2,3),(1,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=1,2
    [3,3]((1,2,2),(1,1,1),(1,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,1,1),(1,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,3),(1,2,2),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(1,2,3),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,6),(1,2,3),(1,0,0)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((1,4,12),(1,2,6),(1,2,3)); lvl=1; h,r-ind=6,6; optimized-h
  [4,3]((1,4,12),(1,3,6),(1,2,3),(1,2,2)); lvl=1; h,r-ind=1,2
    [3,3]((1,2,3),(1,2,2),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,3,6),(1,2,2),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,12),(1,3,6),(1,3,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,4,12),(1,2,3),(1,3,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,0),(1,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,3,6),(1,2,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
```

24.142 Resolved

```
[3,3]((1,0,0),(1,2,0),(1,6,12)); lvl=0; h,r-ind=24,12
  [3,3]((1,3,6),(1,2,2),(1,0,0)); lvl=1; h,r-ind=6,6; optimized-h
  [3,3]((1,1,0),(1,2,2),(1,0,0)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,0),(1,1,0),(1,2,2)); lvl=1; h,r-ind=2,2; optimized-h
  [4,3]((1,6,12),(1,3,6),(1,4,6),(1,2,2)); lvl=1; h,r-ind=2,2
    [3,3]((1,3,5),(1,3,6),(1,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((2,7,12),(1,3,5),(1,3,4),(1,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,5),(1,2,2),(2,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(1,2,2),(2,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,7,12),(1,3,5),(2,6,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,12),(2,6,9)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,9),(2,7,12),(1,4,6),(1,3,4)); lvl=2; h,r-ind=1,1
      [3,3]((1,3,4),(2,7,12),(1,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,11,17),(1,3,4),(1,4,7)); lvl=3; h,r-ind=1,1
      [4,3]((1,5,9),(3,11,17),(1,4,6),(1,4,7)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((1,4,6),(3,11,17),(2,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(3,11,17),(2,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,9),(1,4,6),(2,8,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(1,5,9),(2,8,13)); lvl=4; h,r-ind=1,1
      [3,3]((3,11,17),(1,4,6),(1,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((2,7,12),(2,9,18),(1,3,5),(1,3,6)); lvl=2; h,r-ind=1,1
      [4,3]((1,4,8),(5,18,33),(1,3,6),(1,3,5)); lvl=3; h,r-ind=1,3; alert-r-inc
        [3,3]((1,3,6),(2,7,13),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((5,18,33),(2,7,13),(1,3,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(5,18,33),(2,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,8),(1,3,6),(2,7,13)); lvl=4; h,r-ind=1,1
      [4,3]((2,7,12),(3,11,20),(5,18,33),(1,3,5)); lvl=3; h,r-ind=1,1
        [3,3]((4,14,25),(5,18,33),(3,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,12),(4,14,25),(3,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((4,14,25),(1,3,5),(5,18,33)); lvl=4; h,r-ind=1,1
        [3,3]((2,7,12),(4,14,25),(1,3,5)); lvl=4; h,r-ind=1,1
      [4,3]((2,8,15),(1,4,8),(3,11,20),(5,18,33)); lvl=3; h,r-ind=1,1
```

```
        [3,3]((4,15,28),(1,4,8),(5,18,33)); lvl=4; h,r-ind=1,1
        [3,3]((4,15,28),(3,11,20),(5,18,33)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,15),(4,15,28),(3,11,20)); lvl=4; h,r-ind=1,1
        [3,3]((2,8,15),(4,15,28),(1,4,8)); lvl=4; h,r-ind=1,1
      [3,3]((2,7,12),(2,8,15),(3,11,20)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,15),(2,9,18),(1,4,8)); lvl=3; h,r-ind=1,1
    [4,3]((1,5,9),(1,6,12),(2,7,12),(2,9,18)); lvl=2; h,r-ind=3,1; alert-h-inc
      [4,3]((1,4,7),(1,5,9),(1,5,10),(1,6,12)); lvl=3; h,r-ind=1,1
        [3,3]((1,5,9),(1,6,12),(2,10,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(1,6,12),(2,10,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,4,7),(1,5,9),(2,10,19)); lvl=4; h,r-ind=1,1
        [3,3]((1,5,10),(1,4,7),(2,10,19)); lvl=4; h,r-ind=1,1
      [3,3]((1,4,7),(2,8,15),(1,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,8,15),(2,9,18),(1,5,10)); lvl=3; h,r-ind=1,1
      [3,3]((1,4,7),(2,8,15),(2,7,12)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,0),(1,4,6),(1,2,2)); lvl=1; h,r-ind=4,2; optimized-h
```

24.143 Resolved

```
[3,3]((1,0,0),(1,2,0),(3,2,12)); lvl=0; h,r-ind=24,36
  [4,3]((2,2,3),(3,2,6),(1,0,0),(1,1,0)); lvl=1; h,r-ind=3,3
    [4,3]((4,3,6),(3,2,4),(2,1,3),(3,2,6)); lvl=2; h,r-ind=1,2
      [3,3]((3,2,5),(2,1,3),(3,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,3,6),(3,2,5),(3,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,6),(4,3,6),(3,2,5)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,6),(3,2,5),(2,1,3)); lvl=3; h,r-ind=1,1
    [4,3]((2,2,3),(1,1,1),(4,3,6),(3,2,6)); lvl=2; h,r-ind=1,1
      [3,3]((1,1,1),(4,3,7),(4,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,6),(4,3,7),(4,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((2,2,3),(1,1,1),(4,3,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,6),(2,2,3),(4,3,7)); lvl=3; h,r-ind=1,1
    [4,3]((3,2,3),(3,2,4),(1,0,0),(2,1,3)); lvl=2; h,r-ind=1,2
      [3,3]((2,1,2),(2,1,3),(3,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,3),(2,1,2),(3,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,1,2),(2,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,3),(1,0,0),(2,1,2)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(3,2,3),(1,1,0),(1,0,0)); lvl=2; h,r-ind=1,1
      [3,3]((3,2,3),(1,0,0),(2,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,0),(1,0,0),(2,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,2,3),(2,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,1,0),(2,1,1)); lvl=3; h,r-ind=1,1
    [4,3]((1,1,1),(3,2,3),(4,3,6),(3,2,4)); lvl=2; h,r-ind=1,1
      [3,3]((3,2,3),(4,3,5),(3,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((4,3,6),(4,3,5),(3,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(4,3,6),(4,3,5)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(3,2,3),(4,3,5)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,0),(2,2,3),(1,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((2,1,5),(3,2,9),(3,2,6),(1,0,0)); lvl=1; h,r-ind=1,1
    [4,3]((3,2,6),(2,1,3),(6,4,15),(2,1,4)); lvl=2; h,r-ind=1,1
      [3,3]((7,4,14),(2,1,4),(2,1,3)); lvl=3; h,r-ind=1,1
      [4,3]((3,2,6),(3,2,7),(7,4,14),(2,1,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,2,7),(7,4,14),(5,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,1,3),(7,4,14),(5,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((3,2,6),(2,1,3),(5,3,10)); lvl=4; h,r-ind=1,1
        [3,3]((3,2,6),(3,2,7),(5,3,10)); lvl=4; h,r-ind=1,1
      [3,3]((3,2,7),(7,4,14),(2,1,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,7),(6,4,15),(2,1,4)); lvl=3; h,r-ind=1,1
    [3,3]((3,2,9),(6,4,15),(2,1,4)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,1,5),(3,2,9),(2,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,1,5),(2,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,1,3),(2,1,4)); lvl=2; h,r-ind=1,1
  [3,3]((2,1,6),(2,1,5),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((2,1,6),(2,1,5),(3,2,11),(3,2,9)); lvl=1; h,r-ind=1,1
    [4,3]((2,1,6),(7,4,21),(3,2,11),(3,2,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,3,16),(3,2,11),(3,2,10)); lvl=3; h,r-ind=1,1
      [3,3]((7,4,21),(5,3,16),(3,2,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,6),(7,4,21),(5,3,16)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,6),(5,3,16),(3,2,11)); lvl=3; h,r-ind=1,1
    [4,3]((2,1,5),(7,4,21),(3,2,9),(3,2,10)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,3,15),(3,2,9),(3,2,10)); lvl=3; h,r-ind=1,1
      [3,3]((7,4,21),(5,3,15),(3,2,10)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,5),(7,4,21),(5,3,15)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,5),(5,3,15),(3,2,9)); lvl=3; h,r-ind=1,1
    [3,3]((2,1,5),(2,1,6),(7,4,21)); lvl=2; h,r-ind=1,1
  [3,3]((1,1,3),(3,2,11),(3,2,9)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,2,12),(1,1,3),(3,2,11)); lvl=1; h,r-ind=1,1
  [3,3]((3,2,12),(2,1,6),(3,2,11)); lvl=1; h,r-ind=1,1
```

```
  [4,3]((1,1,3),(2,2,3),(3,2,9),(3,2,6)); lvl=1; h,r-ind=3,1
    [3,3]((1,1,2),(6,4,15),(3,2,6)); lvl=2; h,r-ind=3,3; alert-r-inc; optimized-h
    [3,3]((1,1,2),(2,2,3),(3,2,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(1,1,3),(3,2,9),(6,4,15)); lvl=2; h,r-ind=1,1
      [4,3]((5,4,13),(3,2,8),(1,1,3),(3,2,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,3,11),(3,2,9),(3,2,8)); lvl=4; h,r-ind=1,1
        [3,3]((5,4,13),(4,3,11),(3,2,8)); lvl=4; h,r-ind=1,1
        [3,3]((4,3,11),(1,1,3),(3,2,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,4,13),(4,3,11),(1,1,3)); lvl=4; h,r-ind=1,1
      [3,3]((1,1,2),(5,4,13),(1,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,4,13),(3,2,8)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(6,4,15),(3,2,8)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,0),(1,1,3),(2,2,3)); lvl=1; h,r-ind=3,3; optimized-h
```

24.144 Resolved

```
[3,3]((1,0,0),(1,2,0),(3,8,12)); lvl=0; h,r-ind=24,36
  [4,3]((2,3,2),(2,3,3),(1,0,0),(1,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,0),(1,1,1),(1,0,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,0),(4,5,3),(1,1,1)); lvl=2; h,r-ind=1,1
    [4,3]((2,3,2),(4,5,3),(2,3,3),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,4,3),(1,1,1),(4,5,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,2),(3,4,3),(4,5,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,3),(3,4,3),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((2,3,2),(2,3,3),(3,4,3)); lvl=3; h,r-ind=1,1
    [3,3]((2,3,2),(1,1,0),(4,5,3)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,0),(1,2,1),(2,3,2),(1,1,0)); lvl=1; h,r-ind=1,1
    [3,3]((2,3,1),(1,2,1),(2,3,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,0),(2,3,1),(2,3,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,0),(2,3,1),(1,2,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,0),(1,2,0),(2,3,1)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,2),(1,2,1),(2,3,2),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((1,2,1),(2,3,2),(3,5,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(2,3,2),(3,5,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(1,2,1),(3,5,4)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(1,2,2),(3,5,4)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,2),(3,7,9),(3,7,8),(1,2,1)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,9),(3,7,8),(4,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,1),(3,7,8),(4,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(3,7,9),(4,9,10)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,1),(1,2,2),(4,9,10)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,0),(2,5,6),(3,7,8),(1,2,1)); lvl=1; h,r-ind=1,1
    [3,3]((3,7,7),(2,5,6),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((3,7,7),(1,2,1),(3,7,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,0),(3,7,7),(1,2,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,0),(3,7,7),(2,5,6)); lvl=2; h,r-ind=1,1
  [4,3]((2,5,6),(3,8,12),(3,7,9),(3,7,8)); lvl=1; h,r-ind=1,1
    [3,3]((2,5,6),(2,5,7),(3,8,12)); lvl=2; h,r-ind=1,1
    [3,3]((2,5,6),(7,17,21),(2,5,7)); lvl=2; h,r-ind=1,1
    [4,3]((3,7,8),(7,17,21),(3,7,9),(2,5,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((7,17,21),(2,5,7),(5,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,9),(2,5,7),(5,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(3,7,9),(5,12,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,7,8),(7,17,21),(5,12,15)); lvl=3; h,r-ind=1,1
    [3,3]((3,7,8),(2,5,6),(7,17,21)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,3),(2,3,3),(1,0,0)); lvl=1; h,r-ind=3,3; optimized-h
  [4,3]((1,2,2),(1,2,3),(3,7,9),(2,3,3)); lvl=1; h,r-ind=1,1
    [3,3]((2,4,5),(1,2,3),(3,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,4,5),(3,7,9)); lvl=2; h,r-ind=1,1
    [3,3]((1,2,2),(2,3,3),(2,4,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,3,3),(2,4,5),(1,2,3)); lvl=2; h,r-ind=1,1
  [3,3]((3,8,12),(1,2,3),(3,7,9)); lvl=1; h,r-ind=3,3; optimized-h
```

24.145 Resolved

```
[3,3]((1,0,0),(1,2,0),(5,0,12)); lvl=0; h,r-ind=24,12
  [4,3]((1,1,1),(1,0,0),(1,1,0),(2,0,3)); lvl=1; h,r-ind=1,1
    [4,3]((1,0,1),(1,1,0),(3,2,2),(1,0,0)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,1,1),(3,2,2),(1,1,0)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(2,1,1),(1,1,0)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,1),(1,0,0),(2,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,1),(2,1,1),(3,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,1),(3,2,2)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(1,0,1),(2,0,3)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((1,1,1),(1,1,0),(3,2,2)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,2),(1,1,1),(2,0,3)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,2),(4,0,9),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((3,1,6),(5,0,12),(4,0,9),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(4,0,9),(3,0,7)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(7,2,14),(3,0,7)); lvl=2; h,r-ind=1,1
    [4,3]((3,1,6),(5,0,12),(7,2,14),(3,0,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,0,7),(6,1,13),(5,0,12)); lvl=3; h,r-ind=1,1
      [3,3]((3,1,6),(6,1,13),(5,0,12)); lvl=3; h,r-ind=1,1
      [3,3]((7,2,14),(3,0,7),(6,1,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,1,6),(7,2,14),(6,1,13)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(3,1,6),(7,2,14)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,0),(1,1,1),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((3,1,6),(1,2,0),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.146 Resolved

```
[3,3]((1,0,0),(1,2,0),(5,2,12)); lvl=0; h,r-ind=24,36
  [4,3]((1,0,0),(5,2,7),(5,2,6),(3,1,4)); lvl=1; h,r-ind=1,1
    [4,3]((3,1,3),(11,4,14),(5,2,6),(5,2,7)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((8,3,10),(5,2,7),(5,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,1,3),(8,3,10),(5,2,6)); lvl=3; h,r-ind=1,1
      [3,3]((11,4,14),(8,3,10),(5,2,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,1,3),(11,4,14),(8,3,10)); lvl=3; h,r-ind=1,1
    [3,3]((3,1,4),(11,4,14),(5,2,7)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(3,1,3),(3,1,4),(11,4,14)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((6,2,7),(3,1,3),(11,4,14)); lvl=3; h,r-ind=1,1
      [3,3]((6,2,7),(3,1,4),(11,4,14)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(6,2,7),(3,1,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,0,0),(6,2,7),(3,1,3)); lvl=3; h,r-ind=1,1
  [6,3]((3,1,6),(7,3,15),(5,2,11),(7,3,11),(5,2,7),(3,1,4)); lvl=1; h,r-ind=1,1
    [4,3]((5,2,8),(3,1,4),(3,1,5),(5,2,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,1,4),(3,1,5),(8,3,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,2,9),(3,1,5),(8,3,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,2,8),(3,1,4),(8,3,13)); lvl=3; h,r-ind=1,1
      [3,3]((5,2,9),(5,2,8),(8,3,13)); lvl=3; h,r-ind=1,1
    [4,3]((3,1,6),(5,2,10),(3,1,5),(5,2,9)); lvl=2; h,r-ind=1,1
      [3,3]((5,2,9),(5,2,10),(8,3,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,1,6),(5,2,10),(8,3,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,1,5),(3,1,6),(8,3,15)); lvl=3; h,r-ind=1,1
      [3,3]((3,1,5),(5,2,9),(8,3,15)); lvl=3; h,r-ind=1,1
    [3,3]((5,2,11),(3,1,6),(5,2,10)); lvl=2; h,r-ind=1,1
    [3,3]((7,3,15),(5,2,11),(5,2,10)); lvl=2; h,r-ind=1,1
    [4,3]((7,3,11),(5,2,8),(7,3,13),(5,2,9)); lvl=2; h,r-ind=1,1
      [3,3]((5,2,8),(17,7,29),(5,2,9)); lvl=3; h,r-ind=1,1
      [4,3]((7,3,12),(7,3,13),(17,7,29),(5,2,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((12,5,21),(7,3,13),(5,2,9)); lvl=4; h,r-ind=1,1
        [3,3]((17,7,29),(12,5,21),(5,2,9)); lvl=4; h,r-ind=1,1
        [3,3]((7,3,12),(17,7,29),(12,5,21)); lvl=4; h,r-ind=1,1
        [3,3]((7,3,12),(12,5,21),(7,3,13)); lvl=4; h,r-ind=1,1
      [4,3]((7,3,11),(7,3,12),(5,2,8),(17,7,29)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((12,5,20),(7,3,12),(17,7,29)); lvl=4; h,r-ind=1,1
        [3,3]((5,2,8),(12,5,20),(17,7,29)); lvl=4; h,r-ind=1,1
        [3,3]((7,3,11),(12,5,20),(7,3,12)); lvl=4; h,r-ind=1,1
        [3,3]((5,2,8),(7,3,11),(12,5,20)); lvl=4; h,r-ind=1,1
    [4,3]((7,3,15),(5,2,10),(7,3,13),(5,2,9)); lvl=2; h,r-ind=1,1
      [3,3]((5,2,10),(17,7,33),(5,2,9)); lvl=3; h,r-ind=1,1
      [4,3]((7,3,14),(7,3,13),(17,7,33),(5,2,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((12,5,23),(5,2,9),(7,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((7,3,14),(12,5,23),(7,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((12,5,23),(17,7,33),(5,2,9)); lvl=4; h,r-ind=1,1
        [3,3]((7,3,14),(12,5,23),(17,7,33)); lvl=4; h,r-ind=1,1
      [4,3]((7,3,15),(7,3,14),(5,2,10),(17,7,33)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((12,5,24),(17,7,33),(7,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((7,3,15),(12,5,24),(7,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((5,2,10),(7,3,15),(12,5,24)); lvl=4; h,r-ind=1,1
        [3,3]((5,2,10),(12,5,24),(17,7,33)); lvl=4; h,r-ind=1,1
    [3,3]((5,2,8),(5,2,7),(3,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((7,3,11),(5,2,8),(5,2,7)); lvl=2; h,r-ind=1,1
  [3,3]((1,0,0),(3,1,6),(3,1,4)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,1,6),(5,2,12),(5,2,11)); lvl=1; h,r-ind=1,1
  [3,3]((5,2,12),(7,3,15),(5,2,11)); lvl=1; h,r-ind=1,1
  [5,3]((7,3,11),(2,1,3),(4,2,5),(5,2,7),(5,2,6)); lvl=1; h,r-ind=1,1
    [3,3]((9,4,12),(5,2,6),(4,2,5)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,1,3),(9,4,12),(4,2,5)); lvl=2; h,r-ind=1,1
    [4,3]((7,3,10),(14,6,19),(2,1,3),(9,4,12)); lvl=2; h,r-ind=1,1
      [3,3]((14,6,19),(9,4,12),(16,7,22)); lvl=3; h,r-ind=1,1
```

```
      [3,3]((2,1,3),(9,4,12),(16,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((7,3,10),(2,1,3),(16,7,22)); lvl=3; h,r-ind=1,1
      [3,3]((7,3,10),(14,6,19),(16,7,22)); lvl=3; h,r-ind=1,1
    [3,3]((7,3,11),(7,3,10),(2,1,3)); lvl=2; h,r-ind=1,1
    [4,3]((14,6,19),(12,5,16),(9,4,12),(5,2,6)); lvl=2; h,r-ind=1,1
      [4,3]((12,5,16),(33,14,44),(5,2,6),(7,3,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((33,14,44),(19,8,25),(7,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((5,2,6),(19,8,25),(7,3,9)); lvl=4; h,r-ind=1,1
        [3,3]((12,5,16),(5,2,6),(19,8,25)); lvl=4; h,r-ind=1,1
        [3,3]((12,5,16),(33,14,44),(19,8,25)); lvl=4; h,r-ind=1,1
      [4,3]((14,6,19),(9,4,12),(33,14,44),(7,3,9)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,3,9),(9,4,12),(21,9,28)); lvl=4; h,r-ind=1,1
        [3,3]((14,6,19),(9,4,12),(21,9,28)); lvl=4; h,r-ind=1,1
        [3,3]((33,14,44),(7,3,9),(21,9,28)); lvl=4; h,r-ind=1,1
        [3,3]((14,6,19),(33,14,44),(21,9,28)); lvl=4; h,r-ind=1,1
      [3,3]((14,6,19),(12,5,16),(33,14,44)); lvl=3; h,r-ind=1,1
    [4,3]((7,3,10),(14,6,19),(12,5,16),(5,2,7)); lvl=2; h,r-ind=1,1
      [3,3]((14,6,19),(12,5,16),(19,8,26)); lvl=3; h,r-ind=1,1
      [3,3]((5,2,7),(12,5,16),(19,8,26)); lvl=3; h,r-ind=1,1
      [3,3]((7,3,10),(14,6,19),(19,8,26)); lvl=3; h,r-ind=1,1
      [3,3]((5,2,7),(7,3,10),(19,8,26)); lvl=3; h,r-ind=1,1
    [3,3]((7,3,11),(7,3,10),(5,2,7)); lvl=2; h,r-ind=1,1
    [3,3]((12,5,16),(5,2,6),(5,2,7)); lvl=2; h,r-ind=1,1
  [5,3]((1,0,0),(1,1,1),(1,1,0),(4,2,5),(5,2,6)); lvl=1; h,r-ind=1,1
    [3,3]((2,1,2),(1,0,0),(3,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,1,2),(5,2,6),(3,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((2,1,2),(4,2,5),(5,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(2,1,2),(4,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((2,1,2),(4,2,3),(1,0,0)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,0),(4,2,3),(3,2,2),(1,0,0)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((2,1,1),(3,2,2),(4,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,1),(1,0,0),(4,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,0),(2,1,1),(1,0,0)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,0),(2,1,1),(3,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(1,1,0),(3,2,2)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,1),(2,1,2),(4,2,3),(3,2,2)); lvl=2; h,r-ind=1,1
      [3,3]((2,1,2),(4,2,3),(5,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,2),(4,2,3),(5,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(2,1,2),(5,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,2),(1,1,1),(5,3,4)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,0),(1,1,1),(1,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,1),(2,1,3),(4,2,5),(3,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((3,2,4),(4,2,5),(2,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((3,2,5),(3,2,4),(2,1,3)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,2,5),(3,2,4)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(3,2,4),(4,2,5)); lvl=2; h,r-ind=1,1
  [4,3]((7,3,15),(7,3,11),(2,1,3),(3,2,5)); lvl=1; h,r-ind=1,1
    [4,3]((17,8,30),(7,3,11),(13,6,23),(2,1,3)); lvl=2; h,r-ind=1,1
      [4,3]((13,6,23),(13,6,22),(15,7,26),(20,9,34)); lvl=3; h,r-ind=1,1
        [3,3]((39,18,67),(13,6,22),(15,7,26)); lvl=4; h,r-ind=1,1
        [4,3]((13,6,23),(11,5,19),(39,18,67),(15,7,26)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((26,12,45),(11,5,19),(39,18,67)); lvl=5; h,r-ind=1,1
          [3,3]((26,12,45),(15,7,26),(39,18,67)); lvl=5; h,r-ind=1,1
          [3,3]((13,6,23),(26,12,45),(15,7,26)); lvl=5; h,r-ind=1,1
          [3,3]((13,6,23),(26,12,45),(11,5,19)); lvl=5; h,r-ind=1,1
        [3,3]((11,5,19),(39,18,67),(13,6,22)); lvl=4; h,r-ind=1,1
        [3,3]((11,5,19),(20,9,34),(13,6,22)); lvl=4; h,r-ind=1,1
      [3,3]((17,8,30),(13,6,23),(15,7,26)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,3),(17,8,30),(15,7,26)); lvl=3; h,r-ind=1,1
      [4,3]((2,1,3),(7,3,11),(13,6,22),(20,9,34)); lvl=3; h,r-ind=1,1
        [4,3]((24,11,40),(13,6,22),(9,4,15),(20,9,34)); lvl=4; h,r-ind=1,2; alert-r-inc
          [3,3]((13,6,22),(20,9,34),(22,10,37)); lvl=5; h,r-ind=1,1
          [3,3]((9,4,15),(20,9,34),(22,10,37)); lvl=5; h,r-ind=1,1
          [3,3]((24,11,40),(13,6,22),(22,10,37)); lvl=5; h,r-ind=1,1
          [3,3]((9,4,15),(24,11,40),(22,10,37)); lvl=5; h,r-ind=1,1
        [3,3]((2,1,3),(24,11,40),(13,6,22)); lvl=4; h,r-ind=1,1
        [3,3]((2,1,3),(24,11,40),(9,4,15)); lvl=4; h,r-ind=1,1
        [3,3]((2,1,3),(9,4,15),(7,3,11)); lvl=4; h,r-ind=1,1
      [3,3]((2,1,3),(13,6,22),(15,7,26)); lvl=3; h,r-ind=1,1
    [4,3]((2,1,4),(17,8,30),(3,2,5),(2,1,3)); lvl=2; h,r-ind=1,5; alert-r-inc
      [3,3]((4,2,7),(2,1,3),(17,8,30)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,4),(4,2,7),(17,8,30)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,5),(4,2,7),(2,1,3)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,4),(3,2,5),(4,2,7)); lvl=3; h,r-ind=1,1
    [4,3]((7,3,13),(7,3,11),(11,5,20),(13,6,23)); lvl=2; h,r-ind=1,1
      [4,3]((7,3,12),(9,4,16),(7,3,11),(20,9,34)); lvl=3; h,r-ind=1,1
        [3,3]((9,4,15),(9,4,16),(20,9,34)); lvl=4; h,r-ind=1,1
        [3,3]((9,4,15),(25,11,43),(9,4,16)); lvl=4; h,r-ind=1,1
        [3,3]((7,3,12),(25,11,43),(9,4,16)); lvl=4; h,r-ind=1,1
        [4,3]((7,3,12),(7,3,11),(9,4,15),(25,11,43)); lvl=4; h,r-ind=1,2; alert-r-inc
```

```
          [3,3]((16,7,27),(9,4,15),(7,3,11)); lvl=5; h,r-ind=1,1
          [3,3]((7,3,12),(16,7,27),(7,3,11)); lvl=5; h,r-ind=1,1
          [3,3]((25,11,43),(16,7,27),(9,4,15)); lvl=5; h,r-ind=1,1
          [3,3]((7,3,12),(25,11,43),(16,7,27)); lvl=5; h,r-ind=1,1
      [3,3]((9,4,16),(13,6,23),(20,9,34)); lvl=3; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
      [3,3]((9,4,16),(11,5,20),(13,6,23)); lvl=3; h,r-ind=1,1
      [3,3]((7,3,13),(9,4,16),(11,5,20)); lvl=3; h,r-ind=1,1
      [3,3]((7,3,13),(7,3,12),(9,4,16)); lvl=3; h,r-ind=1,1
    [4,3]((2,1,4),(17,8,30),(11,5,20),(13,6,23)); lvl=2; h,r-ind=1,1
      [3,3]((15,7,27),(17,8,30),(13,6,23)); lvl=3; h,r-ind=1,1
      [3,3]((11,5,20),(15,7,27),(13,6,23)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,4),(11,5,20),(15,7,27)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,4),(15,7,27),(17,8,30)); lvl=3; h,r-ind=1,1
    [4,3]((2,1,4),(7,3,15),(7,3,13),(11,5,20)); lvl=2; h,r-ind=1,1
      [4,3]((9,4,17),(18,8,35),(7,3,14),(7,3,13)); lvl=3; h,r-ind=1,1
        [3,3]((16,7,31),(7,3,14),(18,8,35)); lvl=4; h,r-ind=1,1
        [3,3]((9,4,17),(16,7,31),(18,8,35)); lvl=4; h,r-ind=1,1
        [3,3]((9,4,17),(16,7,31),(7,3,13)); lvl=4; h,r-ind=1,1
        [3,3]((16,7,31),(7,3,13),(7,3,14)); lvl=4; h,r-ind=1,1
      [3,3]((11,5,20),(9,4,17),(7,3,13)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,4),(9,4,17),(18,8,35)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,4),(11,5,20),(9,4,17)); lvl=3; h,r-ind=1,1
      [4,3]((2,1,4),(7,3,15),(18,8,35),(7,3,14)); lvl=3; h,r-ind=1,1
        [3,3]((9,4,18),(7,3,15),(7,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((18,8,35),(9,4,18),(7,3,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,1,4),(18,8,35),(9,4,18)); lvl=4; h,r-ind=1,1
        [3,3]((2,1,4),(9,4,18),(7,3,15)); lvl=4; h,r-ind=1,1
  [4,3]((5,2,12),(7,3,15),(3,2,6),(3,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,1,4),(3,2,5),(3,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((4,2,9),(2,1,4),(3,2,6)); lvl=2; h,r-ind=1,1
    [3,3]((5,2,12),(4,2,9),(2,1,4)); lvl=2; h,r-ind=1,1
    [3,3]((5,2,12),(2,1,4),(7,3,15)); lvl=2; h,r-ind=1,1
  [4,3]((1,2,0),(1,1,1),(3,2,6),(3,2,5)); lvl=1; h,r-ind=1,1
    [3,3]((5,4,8),(3,2,5),(3,2,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((2,2,3),(5,4,8),(3,2,6)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((1,1,1),(1,2,0),(2,2,3),(5,4,8)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((1,2,0),(3,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((5,4,8),(3,3,4),(2,2,3)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(5,4,8),(3,3,4)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,1),(1,2,0),(3,3,4)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,1),(5,4,8),(3,2,5)); lvl=2; h,r-ind=1,1
```

24.147 Resolved

```
[3,3]((1,0,0),(1,2,0),(5,4,12)); lvl=0; h,r-ind=24,12
  [3,3]((1,1,1),(1,2,0),(1,1,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,1),(5,4,6),(1,1,0)); lvl=1; h,r-ind=1,1
    [4,3]((3,2,3),(3,2,2),(5,4,6),(1,1,1)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,3,4),(1,1,1),(3,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,3),(4,3,4),(3,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((4,3,4),(5,4,6),(1,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,3),(4,3,4),(5,4,6)); lvl=3; h,r-ind=1,1
    [3,3]((3,2,2),(1,1,0),(1,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(3,2,2),(1,1,0)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((1,0,0),(3,2,3),(3,2,2)); lvl=2; h,r-ind=2,2; alert-h-inc; alert-r-inc; optimized-h
  [4,3]((1,1,2),(1,1,1),(5,4,6),(5,4,7)); lvl=1; h,r-ind=1,1
    [3,3]((1,1,1),(5,4,6),(6,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((5,4,7),(5,4,6),(6,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(1,1,1),(6,5,8)); lvl=2; h,r-ind=1,1
    [3,3]((5,4,7),(1,1,2),(6,5,8)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(5,4,6),(5,4,7),(4,3,6)); lvl=1; h,r-ind=1,1
    [3,3]((5,4,6),(5,4,7),(4,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,3,6),(5,4,7),(4,3,5)); lvl=2; h,r-ind=1,1
    [3,3]((4,3,6),(5,3,6),(4,3,5)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [3,3]((3,2,3),(5,4,6),(4,3,5)); lvl=2; h,r-ind=1,1
    [4,3]((1,0,0),(5,3,6),(3,2,3),(4,3,5)); lvl=2; h,r-ind=1,1
      [3,3]((4,3,5),(2,1,2),(5,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((4,3,5),(2,1,2),(9,6,10)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,3),(4,3,5),(9,6,10)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,0),(3,2,3),(2,1,2),(9,6,10)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((5,3,5),(3,2,3),(9,6,10)); lvl=4; h,r-ind=1,1
        [3,3]((2,1,2),(5,3,5),(9,6,10)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(5,3,5),(3,2,3)); lvl=4; h,r-ind=1,1
        [3,3]((2,1,2),(1,0,0),(5,3,5)); lvl=4; h,r-ind=1,1
  [3,3]((1,1,2),(1,1,1),(1,2,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,1,2),(5,4,7),(4,3,6),(4,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((5,4,8),(5,4,7),(4,3,6)); lvl=2; h,r-ind=1,1
```

```
    [3,3]((4,3,7),(5,4,8),(4,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(4,3,7),(5,4,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(5,4,8),(5,4,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,0,0),(3,2,6),(4,3,6),(4,3,7)); lvl=1; h,r-ind=1,1
    [3,3]((3,2,5),(4,3,7),(4,3,6)); lvl=2; h,r-ind=1,1
    [3,3]((3,2,5),(5,3,6),(4,3,6)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc; optimized-h
    [4,3]((2,1,3),(1,0,0),(3,2,5),(5,3,6)); lvl=2; h,r-ind=1,1
      [3,3]((3,2,5),(2,1,2),(5,3,6)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,5),(7,4,10),(2,1,2)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,5),(2,1,3),(7,4,10)); lvl=3; h,r-ind=1,1
      [4,3]((2,1,3),(7,4,10),(2,1,2),(1,0,0)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,4,10),(4,2,5),(2,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(4,2,5),(2,1,2)); lvl=4; h,r-ind=1,1
        [3,3]((2,1,3),(7,4,10),(4,2,5)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,0),(2,1,3),(4,2,5)); lvl=4; h,r-ind=1,1
    [3,3]((3,2,6),(2,1,3),(3,2,5)); lvl=2; h,r-ind=1,1
    [3,3]((3,2,6),(3,2,5),(4,3,7)); lvl=2; h,r-ind=1,1
  [4,3]((1,1,2),(5,4,12),(3,2,6),(4,3,7)); lvl=1; h,r-ind=1,1
    [4,3]((4,3,9),(9,7,19),(4,3,8),(3,2,6)); lvl=2; h,r-ind=1,1
      [3,3]((8,6,17),(9,7,19),(4,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,6),(8,6,17),(4,3,8)); lvl=3; h,r-ind=1,1
      [3,3]((4,3,9),(3,2,6),(8,6,17)); lvl=3; h,r-ind=1,1
      [3,3]((4,3,9),(8,6,17),(9,7,19)); lvl=3; h,r-ind=1,1
    [3,3]((4,3,7),(4,3,8),(3,2,6)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,2),(4,3,9),(5,4,12),(9,7,19)); lvl=2; h,r-ind=1,1
      [3,3]((5,4,11),(4,3,9),(5,4,12)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(5,4,11),(5,4,12)); lvl=3; h,r-ind=1,1
      [3,3]((9,7,19),(5,4,11),(4,3,9)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,2),(9,7,19),(5,4,11)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,2),(9,7,19),(4,3,8)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,2),(4,3,7),(4,3,8)); lvl=2; h,r-ind=1,1
```

24.148 Resolved

```
[3,3]((1,0,0),(1,2,0),(7,0,12)); lvl=0; h,r-ind=24,12
  [3,3]((1,0,1),(1,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,1),(3,2,3),(4,4,3),(1,1,0)); lvl=1; h,r-ind=1,1
    [4,3]((3,2,3),(2,1,2),(4,4,3),(5,5,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,1,2),(3,3,2),(5,5,3)); lvl=3; h,r-ind=1,1
      [3,3]((8,6,7),(2,1,2),(3,3,2)); lvl=3; h,r-ind=1,1
      [4,3]((3,2,3),(8,6,7),(4,4,3),(3,3,2)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,3,2),(6,5,5),(4,4,3)); lvl=4; h,r-ind=1,1
        [3,3]((3,2,3),(6,5,5),(4,4,3)); lvl=4; h,r-ind=1,1
        [3,3]((8,6,7),(3,3,2),(6,5,5)); lvl=4; h,r-ind=1,1
        [3,3]((3,2,3),(8,6,7),(6,5,5)); lvl=4; h,r-ind=1,1
      [3,3]((3,2,3),(8,6,7),(2,1,2)); lvl=3; h,r-ind=1,1
    [4,3]((1,0,1),(1,1,0),(2,1,2),(5,5,3)); lvl=2; h,r-ind=1,1
      [3,3]((2,1,2),(2,2,1),(5,5,3)); lvl=3; h,r-ind=1,1
      [3,3]((5,3,4),(2,1,2),(2,2,1)); lvl=3; h,r-ind=1,1
      [4,3]((1,0,1),(5,3,4),(1,1,0),(2,2,1)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((3,2,2),(2,2,1),(1,1,0)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,1),(3,2,2),(1,1,0)); lvl=4; h,r-ind=1,1
        [3,3]((5,3,4),(3,2,2),(2,2,1)); lvl=4; h,r-ind=1,1
        [3,3]((1,0,1),(5,3,4),(3,2,2)); lvl=4; h,r-ind=1,1
      [3,3]((1,0,1),(5,3,4),(2,1,2)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,0),(4,4,3),(1,1,0)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,0,1),(2,0,3),(3,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,0,5),(2,0,3),(3,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((3,0,5),(7,0,12),(4,1,6)); lvl=1; h,r-ind=1,1
  [4,3]((3,0,5),(3,2,3),(4,1,6),(4,4,3)); lvl=1; h,r-ind=1,1
    [4,3]((3,1,4),(3,2,3),(8,5,9),(4,4,3)); lvl=2; h,r-ind=1,1
      [4,3]((3,2,3),(4,3,4),(10,6,11),(4,4,3)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((7,5,7),(10,6,11),(4,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((4,4,3),(7,5,7),(4,3,4)); lvl=4; h,r-ind=1,1
        [3,3]((3,2,3),(4,4,3),(7,5,7)); lvl=4; h,r-ind=1,1
        [3,3]((3,2,3),(7,5,7),(10,6,11)); lvl=4; h,r-ind=1,1
      [3,3]((3,1,4),(3,2,3),(10,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,1,4),(4,3,4),(10,6,11)); lvl=3; h,r-ind=1,1
      [3,3]((3,1,4),(8,5,9),(4,3,4)); lvl=3; h,r-ind=1,1
    [4,3]((4,1,6),(3,0,5),(3,1,4),(8,5,9)); lvl=2; h,r-ind=1,1
      [3,3]((3,0,5),(3,1,4),(10,3,14)); lvl=3; h,r-ind=1,1
      [3,3]((4,2,5),(3,1,4),(10,3,14)); lvl=3; h,r-ind=1,1
      [3,3]((8,5,9),(4,2,5),(3,1,4)); lvl=3; h,r-ind=1,1
      [4,3]((4,1,6),(4,2,5),(3,0,5),(10,3,14)); lvl=3; h,r-ind=1,2; alert-r-inc
        [3,3]((4,2,5),(10,3,14),(7,2,10)); lvl=4; h,r-ind=1,1
        [3,3]((3,0,5),(10,3,14),(7,2,10)); lvl=4; h,r-ind=1,1
        [3,3]((4,1,6),(4,2,5),(7,2,10)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((3,0,5),(4,1,6),(7,2,10)); lvl=4; h,r-ind=1,1
  [3,3]((1,2,0),(4,1,6),(4,4,3)); lvl=1; h,r-ind=3,3; optimized-h
```

24.149 Resolved

```
[3,3]((1,0,0),(1,2,0),(7,4,12)); lvl=0; h,r-ind=24,36
  [3,3]((3,2,3),(4,3,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((6,4,9),(4,3,5),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((4,3,6),(7,4,12),(6,4,9),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((7,4,12),(6,4,9),(8,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((1,1,1),(6,4,9),(8,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,3,6),(1,1,1),(8,5,13)); lvl=2; h,r-ind=1,1
    [3,3]((4,3,6),(7,4,12),(8,5,13)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,0),(4,3,6),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((1,0,0),(1,1,0),(3,2,3),(1,1,1)); lvl=1; h,r-ind=1,1
    [3,3]((2,1,1),(1,1,1),(1,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((1,0,0),(2,1,1),(1,1,0)); lvl=2; h,r-ind=1,1
    [3,3]((3,2,3),(1,0,0),(2,1,1)); lvl=2; h,r-ind=1,1
    [3,3]((3,2,3),(2,1,1),(1,1,1)); lvl=2; h,r-ind=1,1
  [3,3]((1,2,0),(1,1,0),(1,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((2,1,3),(2,1,2),(3,2,3),(4,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((2,1,2),(3,2,3),(8,5,9)); lvl=2; h,r-ind=1,1
    [4,3]((3,2,4),(4,3,5),(3,2,3),(8,5,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((3,2,3),(4,3,5),(6,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,4),(4,3,5),(6,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((8,5,9),(3,2,3),(6,4,7)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,4),(8,5,9),(6,4,7)); lvl=3; h,r-ind=1,1
    [4,3]((2,1,3),(3,2,4),(2,1,2),(8,5,9)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,3,6),(8,5,9),(3,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,3),(5,3,6),(3,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,3,6),(2,1,2),(8,5,9)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,3),(5,3,6),(2,1,2)); lvl=3; h,r-ind=1,1
  [4,3]((2,1,3),(5,3,8),(6,4,9),(4,3,5)); lvl=1; h,r-ind=1,1
    [3,3]((5,3,8),(6,4,9),(14,9,21)); lvl=2; h,r-ind=1,1
    [4,3]((3,2,4),(4,3,5),(6,4,9),(14,9,21)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,3,5),(9,6,13),(6,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((14,9,21),(9,6,13),(6,4,9)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,4),(14,9,21),(9,6,13)); lvl=3; h,r-ind=1,1
      [3,3]((3,2,4),(4,3,5),(9,6,13)); lvl=3; h,r-ind=1,1
    [4,3]((2,1,3),(3,2,4),(5,3,8),(14,9,21)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((8,5,12),(14,9,21),(3,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((2,1,3),(8,5,12),(3,2,4)); lvl=3; h,r-ind=1,1
      [3,3]((5,3,8),(2,1,3),(8,5,12)); lvl=3; h,r-ind=1,1
      [3,3]((5,3,8),(8,5,12),(14,9,21)); lvl=3; h,r-ind=1,1
  [3,3]((7,4,12),(5,3,8),(6,4,9)); lvl=1; h,r-ind=1,1
  [3,3]((7,4,12),(2,1,3),(5,3,8)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(2,1,2),(3,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((2,1,3),(1,0,0),(2,1,2)); lvl=1; h,r-ind=1,1
```

24.150 Resolved

```
[3,3]((1,0,0),(1,2,0),(7,6,12)); lvl=0; h,r-ind=24,12
  [3,3]((1,1,1),(1,2,0),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(1,1,1),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(4,3,6),(1,1,1)); lvl=1; h,r-ind=3,3; optimized-h
  [3,3]((1,1,1),(2,2,3),(1,2,0)); lvl=1; h,r-ind=1,1
  [4,3]((7,6,12),(4,3,6),(1,1,1),(2,2,3)); lvl=1; h,r-ind=1,1
    [4,3]((4,3,6),(11,9,18),(1,1,1),(10,9,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((1,1,1),(10,9,15),(7,6,11),(14,12,21)); lvl=3; h,r-ind=1,3
        [3,3]((10,9,15),(8,7,12),(7,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((14,12,21),(8,7,12),(7,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(14,12,21),(8,7,12)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(10,9,15),(8,7,12)); lvl=4; h,r-ind=1,1
      [3,3]((5,4,8),(7,6,11),(14,12,21)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [4,3]((1,1,1),(4,3,6),(5,4,8),(14,12,21)); lvl=3; h,r-ind=1,3
        [3,3]((4,3,6),(6,5,9),(5,4,8)); lvl=4; h,r-ind=1,1
        [3,3]((14,12,21),(6,5,9),(5,4,8)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(14,12,21),(6,5,9)); lvl=4; h,r-ind=1,1
        [3,3]((1,1,1),(4,3,6),(6,5,9)); lvl=4; h,r-ind=1,1
      [3,3]((5,4,8),(11,9,18),(7,6,11)); lvl=3; h,r-ind=1,1
    [3,3]((2,2,3),(1,1,1),(10,9,15)); lvl=2; h,r-ind=1,1
    [4,3]((7,6,12),(2,2,3),(11,9,18),(10,9,15)); lvl=2; h,r-ind=3,3; alert-h-inc; alert-r-inc
      [4,3]((2,2,3),(10,9,15),(7,6,11),(17,15,27)); lvl=3; h,r-ind=1,3
        [3,3]((9,8,14),(10,9,15),(7,6,11)); lvl=4; h,r-ind=1,1
```

```
        [3,3]((17,15,27),(9,8,14),(7,6,11)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(17,15,27),(9,8,14)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(9,8,14),(10,9,15)); lvl=4; h,r-ind=1,1
      [3,3]((6,5,10),(7,6,11),(17,15,27)); lvl=3; h,r-ind=2,4; alert-r-inc; optimized-h
      [3,3]((6,5,10),(11,9,18),(7,6,11)); lvl=3; h,r-ind=1,1
      [4,3]((7,6,12),(6,5,10),(2,2,3),(17,15,27)); lvl=3; h,r-ind=1,3
        [3,3]((6,5,10),(8,7,13),(17,15,27)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(8,7,13),(17,15,27)); lvl=4; h,r-ind=1,1
        [3,3]((7,6,12),(6,5,10),(8,7,13)); lvl=4; h,r-ind=1,1
        [3,3]((2,2,3),(7,6,12),(8,7,13)); lvl=4; h,r-ind=1,1
```

24.151 Resolved

```
[3,3]((1,0,0),(1,2,0),(9,8,12)); lvl=0; h,r-ind=24,36
  [3,3]((1,0,0),(1,1,1),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,0),(1,1,1),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,0),(5,4,6),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((9,8,12),(5,4,6),(1,1,1)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((9,8,12),(5,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,0),(5,5,6),(1,1,1)); lvl=1; h,r-ind=1,1
```

24.152 Resolved

```
[3,3]((1,0,0),(1,2,0),(11,0,12)); lvl=0; h,r-ind=24,12
  [3,3]((1,0,1),(1,1,0),(1,0,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,0,1),(2,2,1),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((1,2,0),(2,2,1),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((6,1,6),(1,2,0),(2,2,1)); lvl=1; h,r-ind=1,1
  [3,3]((6,1,6),(1,0,1),(2,2,1)); lvl=1; h,r-ind=1,1
  [3,3]((6,1,6),(11,0,12),(1,0,1)); lvl=1; h,r-ind=1,1
```

24.153 Resolved

```
[3,3]((1,0,0),(1,2,0),(11,4,12)); lvl=0; h,r-ind=24,12
  [3,3]((1,0,0),(1,1,0),(2,1,1)); lvl=1; h,r-ind=1,1
  [4,3]((2,2,1),(4,2,3),(1,1,0),(2,1,1)); lvl=1; h,r-ind=1,1
    [4,3]((4,2,3),(3,2,2),(2,1,1),(6,4,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((5,3,3),(3,2,2),(6,4,3)); lvl=3; h,r-ind=1,1
      [3,3]((5,3,3),(2,1,1),(6,4,3)); lvl=3; h,r-ind=1,1
      [3,3]((4,2,3),(5,3,3),(2,1,1)); lvl=3; h,r-ind=1,1
      [3,3]((4,2,3),(5,3,3),(3,2,2)); lvl=3; h,r-ind=1,1
    [3,3]((1,1,0),(2,1,1),(6,4,3)); lvl=2; h,r-ind=1,1
    [4,3]((1,1,0),(2,2,1),(3,2,2),(6,4,3)); lvl=2; h,r-ind=1,2; alert-r-inc
      [3,3]((4,3,2),(2,2,1),(3,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((6,4,3),(4,3,2),(3,2,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,0),(6,4,3),(4,3,2)); lvl=3; h,r-ind=1,1
      [3,3]((1,1,0),(4,3,2),(2,2,1)); lvl=3; h,r-ind=1,1
  [3,3]((1,2,0),(2,2,1),(1,1,0)); lvl=1; h,r-ind=1,1
  [3,3]((2,1,2),(2,2,1),(4,2,3)); lvl=1; h,r-ind=2,2; optimized-h
  [3,3]((1,2,0),(2,1,2),(2,2,1)); lvl=1; h,r-ind=1,1
  [3,3]((4,2,3),(1,0,0),(2,1,1)); lvl=1; h,r-ind=1,1
  [3,3]((3,1,3),(4,2,3),(1,0,0)); lvl=1; h,r-ind=3,9; optimized-h
  [3,3]((2,1,2),(3,1,3),(4,2,3)); lvl=1; h,r-ind=1,1
  [3,3]((2,1,2),(11,4,12),(3,1,3)); lvl=1; h,r-ind=1,1
```